

U.S. Postal Service™

CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE 26456

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postmark
Here

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Clarence & Dawn Conner
Street and Apt. No., or PO Box No.

61 Beagle Dr.
City, State, ZIP+4®

West Union, WV 26456 17500

7017 1450 0001 5871 7260
0922 1285 1000 0541 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
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- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

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- Return Receipt (electronic) \$ _____
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- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

Street and Apt. No. or PO Box No.

City, State, ZIP+4®

Denver; Mary Beth Cox

P.O. Box 66

Smithburg, WV 26436

17-500

Postmark
Here

7017 1450 0001 5871 7253
ES2L T285 T000 054T 2T0L

Certified Mail service provides the following benefits:

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 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Denise W. Davis
Street and Apt. No. or PO Box No.

181 Davis Farm Ln.
City, State, ZIP+4®

New Milton, WV 26411

Postmark
Here

7017 1450 0001 5871 7246
7422 1295 1000 0541 2107

Certified Mail service provides the following benefits:

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 Certified Mail Restricted Delivery \$ _____
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 Adult Signature Restricted Delivery \$ _____

Postmark
Here

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

7017 1450 0001 5871 8526
9259 1285 1000 054T 2102

Jason Davis

P.O. Box 249

West Union, WV 26456

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Domestic Mail Only

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OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

Deanna S. William Davis
589 1/2 Big Flint Rd.
West Union, WV 26456



7017 1450 0001 5871 8519

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
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Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

Dennis & Glenda Kelley

Street and Apt. No., or PO Box No.

2633 Eldersville Rd.

City, State, ZIP+4®

Follansbee, WV 26037

17-500



7017 1450 0001 5871 8502

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
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OFFICIAL USE

Certified Mail Fee

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3.35

Extra Services & Fees (check box, add fees as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

William M. & Melissa J. Duffelmeyer

Street and Apt. No., or PO Box No.

125 Riggins Run

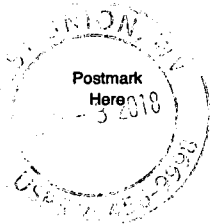
City, State, ZIP+4®

West Union, WV 26056

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047-2

See Reverse for Instructions



7017 1450 0001 5871 8496

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

2.75

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

E. S. Childers

Street and Apt. No., or P.O. Box No.

3335 Casarea Ct.

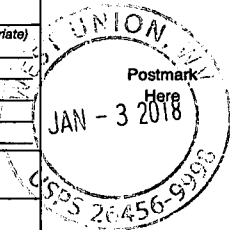
City, State, ZIP+4®

Huntington, WV 25639

17-500

PS Form 3800 April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5871 8489

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
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- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

49

Total Postage and Fees

\$

6.59

Sent To

Charles A. Fetty

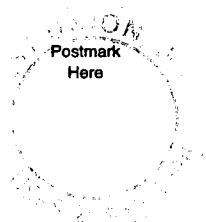
Street and Apt. No., or P.O. Box No.

5242 Rock Run Rd.

City, State, ZIP+4®

West Union, WV 26456

17500



7037 1450 0003 5871 8472

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- Adult Signature Restricted Delivery \$ _____

Postmark
Here

Postage

\$

49

Total Postage and Fees

\$

6.59

Sent To

Nancy Fout, LLC

Street and Apt. No., or PO Box No.

Englands Run

City, State, ZIP+4®

West Union, WV 26456

17-500

7017 1450 0001 5871 8465

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 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

George L. Gagnon

Street and Apt. No., or PO Box No.

Rt. 18

City, State, ZIP+4®

West Union, WV 26456

17-500

Postmark
Here

7017 1450 0001 5871 8458

Certified Mail service provides the following benefits:

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- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee **3.35**

\$

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.55**
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage **.49**

\$

Total Postage and Fees

\$ **2.59**

Sent To **Donzila A. & Mary T. Gain**

Street and Apt. No., or PO Box No.
9 Coolview Ln.

City, State, ZIP+4®
Bridgewater, WI 26330 17-500



7017 1450 0001 5871 8441

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee **3.35**

\$

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage **.49**

\$

Total Postage and Fees

\$

Sent To

George R. Gore

Street and Apt. No., or PO Box No.

5116 Smithton Rd.

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5871 8434
4E4R T295 T000 054T 2T02

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent to

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

David C. & Twylla J. Getz

13147 WV Rt. 23 N

West Union, WV 26456

17-500



7017 1450 0001 5871 8410

Certified Mail service provides the following benefits:

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- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) 3.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Mary Lee Claspell

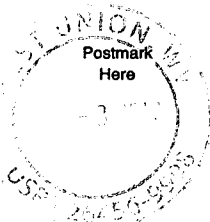
Street and Apt. No., or PO Box No.

14723 WV Rt. 23

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5871 8403

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Certified Mail service is *not* available for International mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

William S. Ronald Griffith

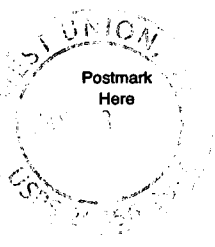
Street and Apt. No., or PO Box No.

3100 Chicken Farm Rd.

City, State, ZIP+4®

Clarksburg, WV 26301

17-500



7017 1450 0001 5871 8397

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

Barbara Verkey

5891 Big Flint Rd.

West Union, WV 26456

17-500



7017 1450 0001 5869 5322
2225 6985 1000 0541 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

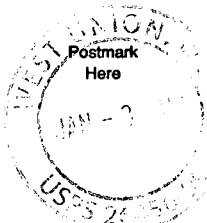
Sent To

WV Railroad Maintenance Authority
Street and Apt. No., or PO Box No.

City, State, ZIP+4®

moorefield, WI 26836 17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7017 7450 0001 5869 5339
6EES 6985 1000 0540

Certified Mail service provides the following benefits:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.25
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage .49

\$

Total Postage and Fees

\$ 6.59

Sent To

Mary Madelyn Willis

Street and Apt. No., or PO Box No.

37-18

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5869 5346
9455 6985 1000 054T 2T02

Certified Mail service provides the following benefits:

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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee
\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) **2.75**
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

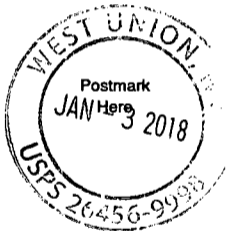
Postage
\$ **.49**

Total Postage and Fees
\$ **6.59**

Sent To
IL (Ike) Morris

Street and Apt. No., or PO Box No.
St. Rt. 18

City, State, ZIP+4®
West Union, WV 26456 17-500



7017 1450 0001 5869 5352
E5E5 6985 T000 054T 2T02

Certified Mail service provides the following benefits:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee
\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage .49
\$

Total Postage and Fees
\$ 6.59

Sent To
Gary L. Jeffrey Lynn McMillan
Street and Apt. No., or P.O. Box No.
20 Felix Dr.
City, State, ZIP+4®
West Union, WV 26456 17-500

Postmark
Here

09E5 6985 1000 054T 2T02
7017 1450 0001 586E 5360

Certified Mail service provides the following benefits:

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- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
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 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.55
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage .49

\$ _____
Total Postage and Fees
\$ 6.59

Sent To Linda West

Street and Apt. No. or PO Box No.

1602 Dotterer's Run

City, State, ZIP+4®

Charleston, SC 29414

17300

Postmark
Here

2107 1450 0001 5869 5377
2255 6985 7000 0547 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Karen Irene Sue McKinney

Street and Apt. No. or PO Box No.

1352 M. letus Rd.

City, State ZIP+4®

Salem, WV 26426

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

17-500

2017 1450 0001 5869 5155
5515 6985 1000 0541 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.25
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$

49

Total Postage and Fees

\$

6.59

Sent To

Edward C. & Fern F. Werner
Street and Apt. No., or PO Box No.

City, State, ZIP+4®

1 First American Way
Wocklake, TX 76262 17500

Postmark
Here

2975 6985 7000 0547 2702
7017 1450 0001 5869 5162

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) 2.25
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Wilma C. Polan

Street and Apt. No., or PO Box No.

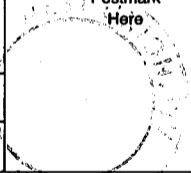
Rt. 18 Blandville

City, State, ZIP+4®

West Union, WV 26456

17-500

Postmark
Here



7017 7107 1450 0001 5869 5179 6215 6985 7000 0547

Certified Mail service provides the following benefits:

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- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only®

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy)

\$ 2.75

Return Receipt (electronic)

\$

Certified Mail Restricted Delivery

\$

Adult Signature Required

\$

Adult Signature Restricted Delivery

\$

Postage

\$

.49

Total Postage and Fees

\$

6.59

Send To

Patrick L. & Penny L. Price

Street and Apt. No., or PO Box No.

1543 Snowbird Rd.

City, State, ZIP+4®

West Union, WV 26456

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

9875 6985 T000 054T 2T02
7017 1450 0001 5869 5186

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Candice Rollins

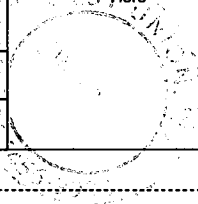
Street and Apt. No. or PO Box No.

Rt. 18

City, State, ZIP+4®

West Union, WV 26456 17-500

Postmark
Here



7017 1450 0001 5869 5195
EB75 6985 1000 054T 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.25
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Scotty S. Martha Ruble
Street and Apt. No. or PO Box No.

City, State, ZIP+4®

Smithburg, WA 26436

17-500

7017 1450 0001 5869 5209
6025 6985 1000 054T 2102



Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Anthony J. & Robin A. Wells

Street and Apt. No., or PO Box No.

9235 SE 178th Madeline Ln.

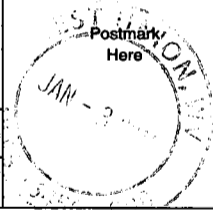
City, State, ZIP+4®

The Villages, FL 32162

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



9125 6985 7000 0547 2102
2017 1450 0001 5869 5216

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage 49

\$ 6.59

Total Postage and Fees

\$ 6.59

Sent To

Charles & Barbara Wellings

Street and Apt. No. or PO Box No.

1232 WVRT. 18

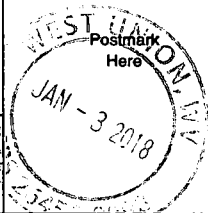
City, State, ZIP+4®

West Union, WV 26456

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



2017 1450 0001 5869 5223
6985 1000 0547 2107

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

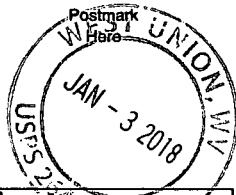
- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**



Sent To

Trustees of Grace Baptist Church

Street and Apt. No., or PO Box No.

St. Rt. 23 Ashby

City, State, ZIP+4®

Center Point, WV 26339

17-500

0E25 6985 1000 0541 2102
7017 1450 0001 5869 5320

Certified Mail service provides the following benefits:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fees as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Jeffrey S. & Richard L. Wagner
Street and Apt. No. of PO Box No.

107 Taylor School Rd.
City, State, ZIP+4®

Bridgeport, WV 26330

Postmark
Here

7017 1450 0001 5869 5094
4605 6985 1000 054T 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Mary Farr Secrist

Street and Apt. No. or PO Box No.

1884 Pumpkin Center Rd.

City, State, ZIP+4

West Union, WV 26456

17-500

Postmark
Here

7017 1450 0001 5869 5100
0075 6995 T000 054T 2T02

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) **2.25**
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Postmark
Here

Sent To

Howard B. & Amy B. Spurlock

Street and Apt. No., or PO Box No.

192 Piggins Run Rd.

City, State, ZIP+4®

West Union, WA 98586

17-500

7017 1450 0001 5869 5117
2175 6985 1000 0547 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage; and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

John H. McClain

Street and Apt. No., or PO Box No.

St. Rt. 23 Ashby

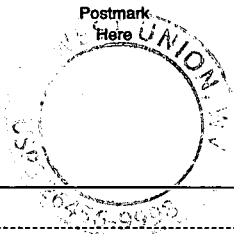
City, State, ZIP+4®

Center Point, WV 26339

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5869 5124
4275 6985 1000 054T
2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) **2.75**
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

Donna Leatherman

Street and Apt. No. or PO Box No.

627 Morgans Run Rd.

City, State, ZIP+4®

West Union, WV 26456

17-500

Postmark
Here

7017 1450 0001 5869 5131
7875 6985 1000 0547 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.50
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.54

Sent To

William Trent

Street and Apt. No. or PO Box No.

2500 Westfield

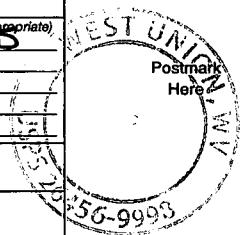
City, State, ZIP+4®

Elgin, IL 60123

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



2017 1450 0001 5869 5148
8475 6985 1000 0547 0107

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U S Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ 2.25

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Michael D. Travis

Street and Apt. No., or PO Box No.

5689 WV Rt. 185

City, State, ZIP+4®

West Union, WV 26456

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

Postmark
Here

8105 6985 7000 054T 2102
7017 1450 0001 5869 5018

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

Valerie A. Lamb

Street and Apt. No., or PO Box No.

Rt. 18

City, State, ZIP+4®

West Union, WV 26456

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5869 5025
5205 6995 T000 054T 2T02

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Dale W. & Melissa Keplinger, II

Street and Apt. No., or PO Box No.

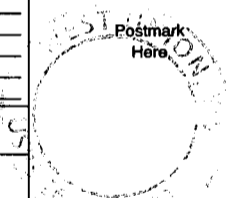
82 Triple J Rd.

City, State, ZIP+4®

Gassaway, WV 26624 17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



2605 6985 7000 054T 2102
7017 1450 0001 5869 5032

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

K. Todd & Kimberly Bland

Street and Apt. No., or PO Box No.

Rt. 18

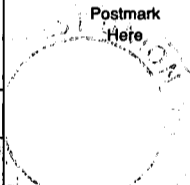
City, State, ZIP+4®

Blandville, WV 24606

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



6405 6985 7000 0547 2102
7017 1450 0001 5869 5049

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
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- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Charles Edward Jones

Street and Apt. No., or PO Box No.

Rt. 50/20

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5869 5056
9505 6985 1000 054T 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fees as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

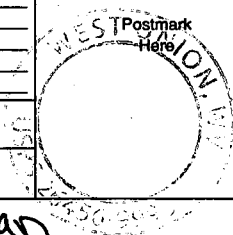
Sent To

John McMillan
Street and Apt. No., or PO Box No.

4131 Wadsworth Rd.
City, State, ZIP+4®
Norton, OH 44203

17-500

7017 1450 0001 5895 6985 1000 054T 2102



Certified Mail service provides the following benefits:

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- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Marvin E. & Robin E. Travis

Street and Apt. No., or PO Box No.

67 Eibs Camp Rd.

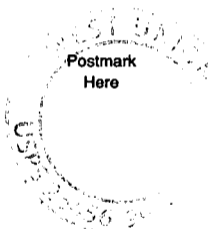
City, State, ZIP+4®

New Milton, WV 26411

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5869 5070
0200 6989 1000 0541 1102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Tim Bland

Street and Apt. No. or PO Box No.

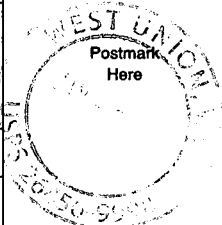
WV Rt. 18 Blandville

City, State, ZIP+4®

West Union, WV 26456

M-500

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7017 1450 0001 5869 5087
2905 6985 1000 0541 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy)

\$

2.25

Return Receipt (electronic)

\$

Certified Mail Restricted Delivery

\$

Adult Signature Required

\$

Adult Signature Restricted Delivery

\$

Postage

\$

49

Total Postage and Fees

\$

6.59

Sent To

Linda Cogar

Street and Apt. No., or PO Box No.

3640 WURT. 18

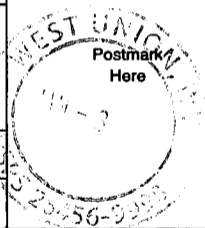
City, State, ZIP+4®

West Union, WV 26456

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5871 7284
4922 1295 T000 0547 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

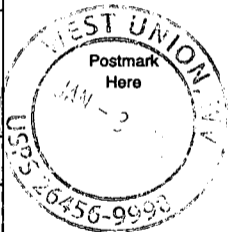
Postage
\$.49

Total Postage and Fees
\$ 6.59

Sent To Todd A. & Michelle L. Burkson

Street and Apt. No., or PO Box No.
Rt. 21/Rt. 23

City, State, ZIP+4®
West Union, WV 26456 17-500



7017 1450 0001 5871 7291
1622 1285 1000 0541

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.15
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

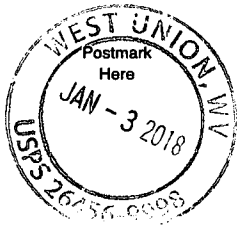
Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



Brian & Dawn McMillan

2748 Wylie Ridge Rd.

Weirton, WV 26062 17-500

2017 1450 0001 5871 7307
2022 T285 T000 054T 2T02

Certified Mail service provides the following benefits:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fees as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$

49

Total Postage and Fees

\$

6.59

Sent To

Kevin & Edna Boyce

Street and Apt. No., or PO Box No.

4911 Smithton Rd.

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5871 7314
4752 7285 7000 0547 2707

Certified Mail service provides the following benefits:

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- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

Street and Apt. No., or PO Box No.

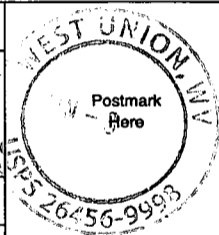
City, State, ZIP+4®

David E. Bowyer
12088 Middle Island Rd.
Alma, WV 26320

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5871 7321
1232 1285 1000 0500 0500 0500

Certified Mail service provides the following benefits:

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- Electronic verification of delivery or attempted delivery.
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy)

2.75

Return Receipt (electronic)

\$ _____

Certified Mail Restricted Delivery

\$ _____

Adult Signature Required

\$ _____

Adult Signature Restricted Delivery

\$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Arnold Lee Bonnell

Street and Apt. No., or PO Box No.

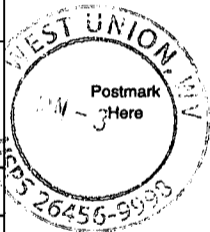
5095 Riggins Run Rd.

City, State, ZIP+4®

Salem, WV 26426

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



7017 1450 0001 5871 7338
7285 7000 0547 2107

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

William H. & Wanda S. Blevins

Street and Apt. No., or PO Box No.

141 Chesterwood Ln.

City, State, ZIP+4®

Stafford, VA 22556

17-500



7017 1450 0001 5871 7345
5432 1295 1000 0547

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Kathryn Renee Blessing

Street and Apt. No. or PO Box No.

69 Blessing Ln.

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5871 7352
2532 1285 1000 0547

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
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- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

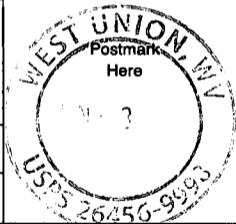
Jack N. VanMatys, Dickerson Blazer

Street and Apt. No. or PO Box No.

5938 WURt. 18

City, State, ZIP+4®

West Union, WV 26456 17-500



7017 1450 0001 5871 7369
6962 T285 T000 054T 2T02

Certified Mail service provides the following benefits:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

Blandville ME Church

Street and Apt. No. or PO Box No.

Rt. 18 Blandville

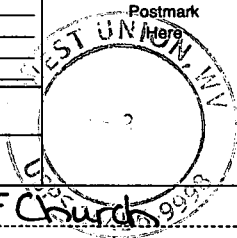
City, State, ZIP+4®

West Union, WV 26456

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5871 7376
2125 1285 1000 054T 054T 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) 2.15
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.99

Sent To

Robert C. & Arlene R. Bland

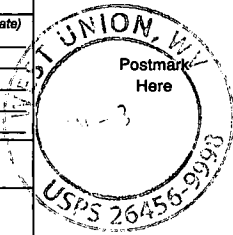
Street and Apt. No., or PO Box No.

4101 WURT. 185

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5871 738E
EBE2 T295 T000 054T 2T02

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.15
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Big D Enterprises, LLC

Street and Apt. No. or PO Box No.

P.O. Box 351

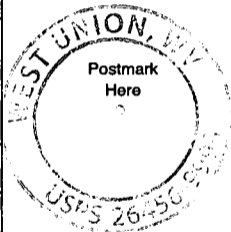
City, State, ZIP+4®

Salem, WV 26426

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5871 7390 0541 0541 0541

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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy)

2.75

Return Receipt (electronic)

\$ _____

Certified Mail Restricted Delivery

\$ _____

Adult Signature Required

\$ _____

Adult Signature Restricted Delivery

\$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

George W. & Barbara B. Adrian

Street and Apt. No., or PO Box No.

St. Rt. 18

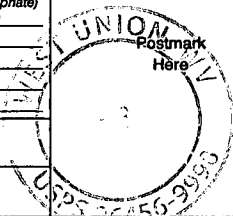
City, State, ZIP+4®

West Union, WV 26456

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7017 1450 0001 5871 7413
ET42 T295 T000 0547 2102

Certified Mail service provides the following benefits:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postmark
Here

Postage

\$

49

Total Postage and Fees

\$

6.59

Sent To

Lillian R. Bartee

Street and Apt. No. or PO Box No.

3972 Wurt. 185

City, State, ZIP+4®

West Union, WV 26456

17-500

7017 1450 0001 5871 7406
9042 7295 7000 0547 2702

Certified Mail service provides the following benefits:

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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee
\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.15
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage
\$.49

Total Postage and Fees
\$ 6.59



Sent To Antero Resources
Street and Apt. No., or PO Box No. 1615 Wynkoop St.
City, State, ZIP+4® Denver, CO 80802 17-500

7017 1450 0001 5871 7420 0242 1295 1000 0541 2107

Certified Mail service provides the following benefits:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

Cone Gathering, LLC

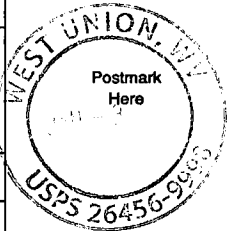
Street and Apt. No., or PO Box No.

1000 Consol Energy Dr.

City, State, ZIP+4®

Canonsburg, PA 15317

17-500



7017 1450 0001 5871 7277
2221 1285 1000 0547 2101

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee \$ 3.35

Extra Services & Fees (check box, add fees as appropriate)

- Return Receipt (hardcopy) \$ 2.05
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

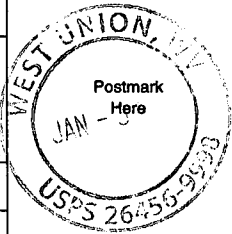
Postage \$.49

Total Postage and Fees \$ 2.59

Sent To Gerald Bunner

Street and Apt. No., or PO Box No. 163 Cable Rd.

City, State, ZIP+4® Weynton, WV 26062 17500



7017 1450 0001 5871 8427

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

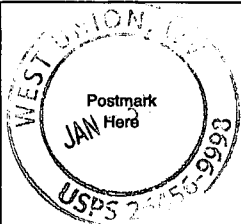
Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



Jeffrey Swisher

379 Dakota Ln.

West Union, IA 26456 17-500

7017 1450 0001 5871 7529

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee
\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage
\$ **49**

Total Postage and Fees
\$ **6.59**

Sent To
Michael W. & Jodi A. Swiger

Street and Apt. No. or PO Box No.
5577 Riggins Run

City, State, ZIP+4®
West Union, WV 26456



7017 1450 0001 5871 7512
2152 1285 1000 0541 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique Identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee
\$ 3.35

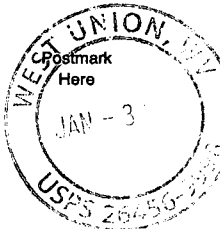
Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage
\$.49

Total Postage and Fees
\$ 6.59

Sent To Larry D. Swiger
Street and Apt. No. or PO Box No. St. Rt. 23
City, State, ZIP+4® Center Point, WV 26339 17-500



7017 1450 0001 5871 8304
4039 1285 1000 0547 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy)

2.75

Return Receipt (electronic)

\$

Certified Mail Restricted Delivery

\$

Adult Signature Required

\$

Adult Signature Restricted Delivery

\$

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

Jeremy W. & Amanda L. Sutton

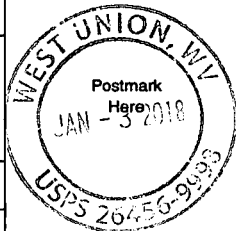
Street and Apt. No., or PO Box No.

P.O. Box 57

City, State, ZIP+4®

Smithburg, WV 26436

17-500



7017 1450 0001 5871 8311

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

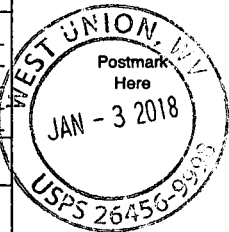
Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



Theodore J. Stumpf

4805 Riggins Run

West Union, WV 26456

17-500

7017 1450 0001 5871 8328

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee
\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

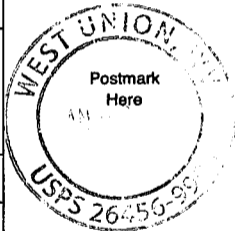
- Return Receipt (hardcopy) \$ **3.25**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage
\$ **.49**

Total Postage and Fees
\$ **6.59**

Sent To **Anderson Stover**
Street and Apt. No. or PO Box No.
St. Rt. 18

City, State, ZIP+4®
West Union, WV 26456 17500



7017 1450 001 5871 8335
5889 1285 1000 0547 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

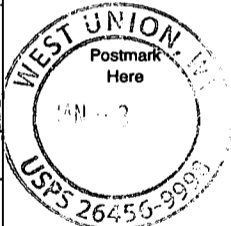
Certified Mail Fee \$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.15
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage \$.49

Total Postage and Fees \$ 6.59



Sent To James A. & Angela J. Bland

Street and Apt. No., or PO Box No. 9061 WV Rt. 185

City, State, ZIP+4® West Union, WV 26456 17-500

7017 1450 0001 5871 8342

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee \$ **3.35**

Extra Services & Fees (check box, add fees as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage \$ **.49**

Total Postage and Fees \$ **6.59**



Sent To **William J. & Rita I Hyde**

Street and Apt. No., or PO Box No.
1273 Snowbird Rd.

City, State, ZIP+4®
West Union, WV 26456 17-500

7017 1450 0001 5871 8359

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for International mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

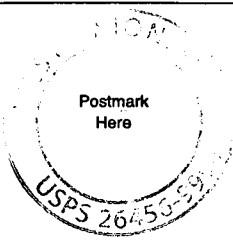
Justin L. Henderson
Street and Apt. No., or PO Box No.

190 Sapphire Ln.
City, State, ZIP+4®

Meadowbrook, WV 26404 17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



9969 T285 T000 054T 2T02
7017 1450 0001 5871 8366

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for International mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy)

\$

2.75

Return Receipt (electronic)

\$

Certified Mail Restricted Delivery

\$

Adult Signature Required

\$

Adult Signature Restricted Delivery

\$

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

Evelyn Ronald E. & Judith L. Heintzelman

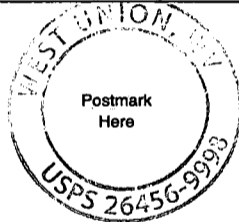
Street and Apt. No., or PO Box No.

Rt. 3

City, State, ZIP+4®

Center Point, WV 26339

17500



7017 1450 0001 5871 8378

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

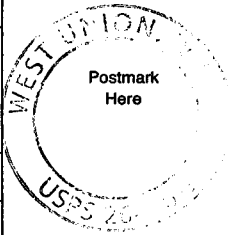
Street and Apt. No., or PO Box No.

City, State, ZIP+4®

Charles & Patsy Heaster

2898 Punkin Center Rd.

West Union, WV 26456 17-500



7017 1450 0001 5871 8380

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

Jamie & Ronald Hass

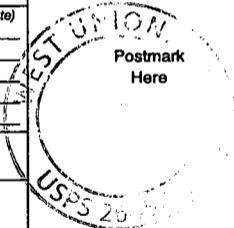
Street and Apt. No., or PO Box No.

4061 WURT. 185

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5869 5247
2425 6985 7000 0547 2702

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult-signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

49

Total Postage and Fees

\$

6.59

Sent To

Donald E. Zack, Jr.

Street and Apt. No., or PO Box No.

St. Rt. 23

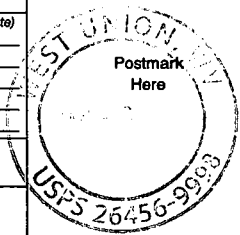
City, State, ZIP+4®

Center Point, WV 26339

17-500

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



4525 6985 7000 0547 2707
7017 1450 0002 5869 5254

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ **3.35**

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ **2.75**
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

Richard P. & Cheryl A. Parsons

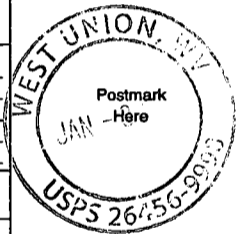
Street and Apt. No., or PO Box No.

Rt. 23

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5869 5261
7925 6985 7000 0547 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

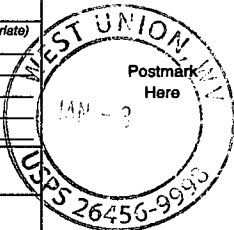
Norma Dale Kelley

Street and Apt. No., or PO Box No.

4201 WV Rt. 18

City, State, ZIP+4®

West Union, WV 26456 17500



7017 1450 0001 5869 5278
9225 6995 T000 0547 2107

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$

3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent To

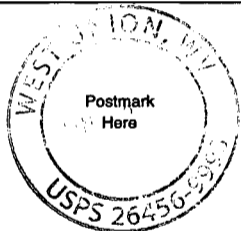
Ronald Yerkey

Street and Apt. No., or PO Box No.

37 McMillan Farm Rd.

City, State, ZIP+4®

West Union, WV 26456 17-500



7017 1450 0001 5869 5285
5825 6985 T000 0547 2T02

Certified Mail service provides the following benefits:

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- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) 2.75
- Return Receipt (electronic) \$ _____
- Certified Mail Restricted Delivery \$ _____
- Adult Signature Required \$ _____
- Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

Sent To

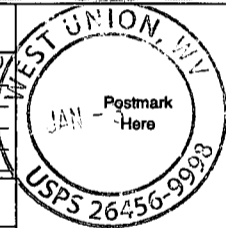
Roger & Nora Ann Nicholson
Street and Apt. No., or PO Box No.

1513 Snowbird Rd.

City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5869 5292 2625 6985 1000 054T 2102

Certified Mail service provides the following benefits:

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- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

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IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

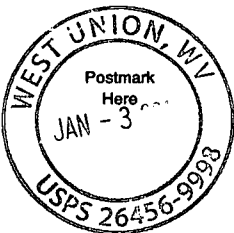
Sent To

Arail Waine Nicholson
Street and Apt. No., or PO Box No.

126 Pumpkin Ln.
City, State, ZIP+4®

West Union, WV 26456

17-500



7017 1450 0001 5869 5308
9055 6985 7000 0547 2702

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
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- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 2.75
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59

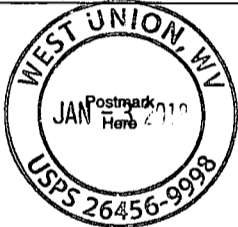
Sent To

Laura L. Nestor
Street and Apt. No., or PO Box No.

Rt. 25

City, State, ZIP+4®

New Milton, WV 26411 17500



2017 1450 0001 5869 5315
STES 6985 1000 0541 2102

Certified Mail service provides the following benefits:

- A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

Important Reminders:

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for International mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
 - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;

for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

IMPORTANT: Save this receipt for your records.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Justin L. Henderson (LIFE)
190 Sapphire Lane
Meadowbrook, WV 26404



9590 9402 3306 7196 1892 05

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Justin L. Henderson

Agent

Addressee

B. Received by *(Printed Name)*

Justin L. Henderson

C. Date of Delivery

1-5-18

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®

Registered Mail™

Registered Mail Restricted Delivery

Return Receipt for Merchandise

Signature Confirmation™

Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1892 05

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

David E. Bowyer
12088 Middle Island Road
Alma, WV 26320



9590 9402 2228 6193 5108 72

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

David E Bowyer

C. Date of Delivery

1/5/18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 2228 6193 5108 72

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Donzil A. & Mary T. Gain
9 Coolview Lane
Bridgeport, WV 26330



9590 9402 3306 7196 1896 32

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-4-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

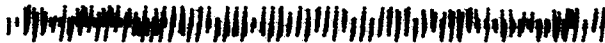
9590 9402 3306 7196 1896 32

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Candi E. Rollins (ET VIR)
Rt. 18
West Union, WV 26456



9590 9402 3306 7196 1898 92

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Candie Rollins

Agent
 Addressee

B. Received by (Printed Name)

Marianne Rollins

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

PO Box 56
West Union, WV 26456

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1898 92

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Denver & Mary Beth Cox
 P.O. Box 66
 Smithburg, WV 26436



9590 9402 3306 7196 1895 33

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Mary Cox

Agent

Addressee

B. Received by (Printed Name)

Mary Cox

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1895 33

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

William J. & Rita I. Hyde (SURV)
1273 Snowbird Road
West Union, WV 26456



9590 9402 3306 7196 1892 12

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Jess Williams

Agent

Addressee

B. Received by (Printed Name)

JESS WILLIAMS

C. Date of Delivery

1/4

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below:

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®

Registered Mail™

Registered Mail Restricted Delivery

Return Receipt for Merchandise

Signature Confirmation™

Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1892 12

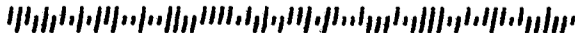
United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-500

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Kathryn Renee Blessing
69 Blessing Lane
West Union, WV 26456



9590 9402 2228 6193 5109 02

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Roger Cleveland

- Agent
- Addressee

B. Received by (Printed Name)

Roger Cleveland

C. Date of Delivery

8/21

D. Is delivery address different from item 1?
 If YES, enter delivery address below:

- Yes
- No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 2228 6193 5109 02

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-500

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Jason Davis
P.O. Box 249
West Union, WV 26456



9590 9402 3306 7196 1895 57

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Crystal Kricelby* Agent
 Addressee

B. Received by (Printed Name)

Crystal Kricelby

C. Date of Delivery

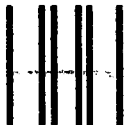
1-4-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1895 57

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-500

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Theodore J. Stumpf
4805 Riggins Run
West Union, WV 26456



9590 9402 3306 7196 1892 36

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Tina DelPreta

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

1/4

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1892 36

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

ale W. & Melissa Keplinger, II
 82 Triple J Road
 Gassaway, WV 26624



9590 9402 3306 7196 1888 57

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

*Melissa Keplinger

Agent

Addressee

B. Received by (Printed Name)

Melissa Keplinger

C. Date of Delivery

11/4/18

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1888 57

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17 500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Argil Wayne Nicholson
126 Pumpkin Lane
West Union, WV 26456



9590 9402 3306 7196 1897 79

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Barbara B. Nicholson

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

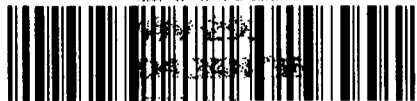
D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1897 79

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-500

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Mary Farr Secrist
1884 Punkin Center Road
West Union, WV 26456



9590 9402 3306 7196 1899 53

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Mary Farr Secrist

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



9590 9402 3306 7196 1899 53



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box •

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-500

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1 Article Addressed to:

Kevin & Edna Boyce
4911 Smithton Road
West Union, WV 26456



9590 9402 2228 6193 5108 65

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

-
- Agent
-
-
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

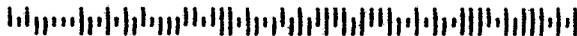
9590 9402 2228 6193 5108 65

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Donna Leatherman
627 Morgans Run Road
West Union, WV 26456



9590 9402 3306 7196 1899 84

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Mark Leatherman*

Agent

Addressee

B. Received by (Printed Name)

Mark Leatherman

C. Date of Delivery

1/4

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1899 84

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Denise W. Davis
181 Davis Farm Lane
New Milton, WV 26411



9590 9402 3306 7196 1895 40

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Denise W. Davis

Agent

Addressee

B. Received by (Printed Name)

Denise W. Davis

C. Date of Delivery

1-4-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1895 40

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article addressed to:

Big D Enterprises, LLC
P.O. Box 351
Salem, WV 26426



9590 9402 2228 6193 5109 40

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Clara W. Matichell Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

Clara W. Matichell
 JAN 05 2018

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 2228 6193 5109 40

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17300

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Railroad Maintenance Authority
Moorefield, WV 26836



9590 9402 3306 7196 1898 09

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Tammy Cooper

Agent

Addressee

B. Received by (Printed Name)

Tammy Cooper

C. Date of Delivery

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®

Registered Mail™

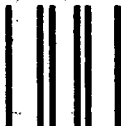
Registered Mail Restricted Delivery

Return Receipt for Merchandise

Signature Confirmation™

Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1898 09

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM

George Eidel

~~105~~ Court Street, Suite 3

West Union, WV 26456

17500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Linda West
 1602 Dotterer's Run
 Charleston, SC 29414



9590 9402 3306 7196 1898 47

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Sandra Smyth

Agent

Addressee

B. Received by (Printed Name)

Sandra Smyth

C. Date of Delivery

06-18

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below:

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

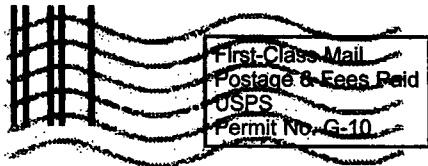
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #

CHARLESTON SC 294



06 JAN 2013 04 2 L



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1898 47

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Ronald Yerkey
37 McMullan Farm Road
West Union, WV 26456



9590 9402 3306 7196 1897 55

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

[Handwritten Signature]

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-8-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1897 55

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17 J00



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

John McMillan
4131 Wadsworth Road
Norton, OH 44203



9590 9402 3306 7196 1888 26

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *John McMillan*

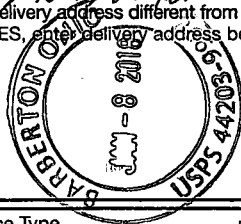
- Agent
 Addressee

B. Received by (Printed Name)

John McMillan

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No



3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1888 26

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Sam H. & Wanda S. Blevins (SURV)
141 Chesterwood Lane
Stafford, VA 22556



9590 9402 2228 6193 5108 96

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

-
- Agent
-
-
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

 D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 2228 6193 5108 96

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

ny W. & Amanda L. Sutton (SURV)
P.O. Box 57
Smithburg, WV 26436



9590 9402 3306 7196 1892 43

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Amanda L. Sutton

Agent

Addressee

B. Received by (Printed Name)

Amanda Sutton

C. Date of Delivery

1-8-18

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

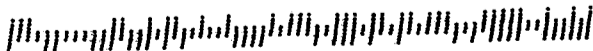
9590 9402 3306 7196 1892 43

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17 500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Arnold Lee Bonnell
5095 Riggins Run Road
 Glenview, IL 60025



9590 9402 3306 7196 1889 63

2. Art

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
 Addressee

B. Received by (*Printed Name*)

C. Date of Delivery

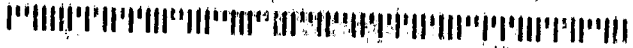
D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery

- Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for
 andise
 ure Confirmation™
 ure Confirmation
 ted Delivery

Domestic Return Receipt



Paid



9590

United States
Postal Service

01/05/18

DODD105 264562024-1N

Sender. Please print your name, address, and

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-498

FWD

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

**William Trent
2500 Westfield
Elgin, IL 60123**



9590 9402 3306 7196 1899 91

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

Julias

C. Date of Delivery

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below:

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®

Registered Mail™

Registered Mail Restricted Delivery

Return Receipt for Merchandise

Signature Confirmation™

Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

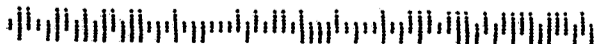
9590 9402 3306 7196 1899 91

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Charles A. Fetty
5242 Rock Run Road
West Union, WV 26456



9590 9402 3306 7196 1896 01

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Charles A. Fetty* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

J 1-5-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

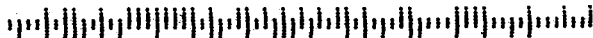
9590 9402 3306 7196 1896 01

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Antero Resources
1615 Wynkoop Street
Denver, CO 80802



9590 9402 2228 6193 5136 75

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

[Handwritten Signature]

- Agent
 Addressee

B. Received by (Printed Name)

M ROBERTSON

C. Date of Delivery

1/8

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 2228 6193 5136 75

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

ery S. & Richard L. Wagner (SURV)
107 Taylor School Road
Bridgeport, WV 26330



9590 9402 3306 7196 1899 46

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

Agent

Addressee

C. Date of Delivery

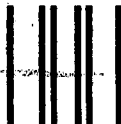
1-5-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1899 46

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-500

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

George R. Gore
5116 Smithton Road
West Union, WV 26456



9590 9402 3306 7196 1896 56

2. Article Number (*Transfer from service label*)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Randy H*

Agent

Addressee

B. Received by (*Printed Name*)

C. Date of Delivery

1-5-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1896 56

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Linda Cogar
3640 WV Rt. 18
West Union, WV 26456



9590 9402 3306 7196 1895 02

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Linda Cogar*

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-5-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1895 02

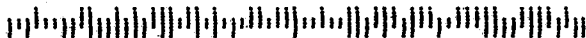
**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-5001

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Trick L. & Penny L. Price (SURV)
1543 Snowbird Road
West Union, WV 26456



9590 9402 3306 7196 1898 85

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-5-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1898 85

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-300



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Joan May & Dickerson Blazer (SURV)
 5938 WV Rt 18
 West Union, WV 26456



9590 9402 2228 6193 5109 19

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Jack Blazer
JACK BLAZER

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-5-17

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 2228 6193 5109 19

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Marvin E. & Robin E. Travis
67 Eibs Camp Road
New Milton, WV 26411



9590 9402 3306 7196 1888 19

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Yvonne Travis* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-5-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

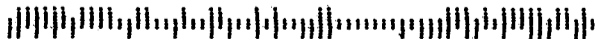
9590 9402 3306 7196 1888 19

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Cone Gathering, LLC
1000 Consol Energy Drive
Canonsburg, PA 15317



9590 9402 3306 7196 1895 19

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1895 19

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddrige County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

James A. & Angela J. Bland
4061 WV Rt. 18S
West Union, WV 26456



9590 9402 3306 7196 1896 49

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-4-18

D. Is delivery address different from item 1? If YES, enter delivery address below:

Yes

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®

Registered Mail™

Registered Mail Restricted Delivery

Return Receipt for Merchandise

Signature Confirmation™

Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1896 49

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Norma & Dale Kelley
4201 WV Rt. 18
West Union, WV 26456



9590 9402 3306 7196 1897 48

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Norma Lee Kelley* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-4-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1897 48

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Jamie & Ronald Hass
4061 WV Rt. 18S
West Union, WV 26456



9590 9402 3306 7196 1897 17

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Ronald Hass

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-4-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1897 17

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17 500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

David C. & Twylla J. Getz (SURV)
13147 WV Rt. 23N
West Union, WV 26456

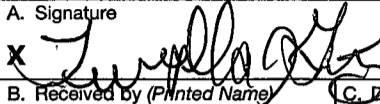


9590 9402 3306 7196 1896 70

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X  Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1896 70

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17 500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

C. & Arlene R. Bland (SURV) (LIFE)
4101 WV Rt 18 S
West Union, WV 26456



9590 9402 2228 6193 5109 33

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Arlene R. Bland* Agent
 Addressee

B. Received by (Printed Name)

Arlene R. Bland

C. Date of Delivery

1-4-18

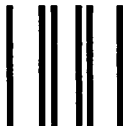
D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

X

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 2228 6193 5109 33

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Michael D. Travis
5689 WV Rt. 18S
West Union, WV 26456



9590 9402 3306 7196 1888 71

2. Article Number (Transfer from service label)

7017 1450 0001 5869 5018

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Michael D Travis*

Agent

Addressee

B. Received by (Printed Name)

Michael Travis

C. Date of Delivery

11/4/17

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below:

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®

Registered Mail™

Registered Mail Restricted Delivery

Return Receipt for Merchandise

Signature Confirmation™

Signature Confirmation Restricted Delivery

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1888 71

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

er & Nora Ann Nicholson (SURV)
1513 Snowbird Road
West Union, WV 26456



9590 9402 3306 7196 1897 62

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Nora Nicholson* Agent
 Addressee

B. Received by (Printed Name)

Nora Nicholson

C. Date of Delivery

1-4-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1897 62

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17 300

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Charles & Barbara Wellings
1232 WV Rt. 18
West Union, WV 26456



9590 9402 3306 7196 1899 22

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Barbara Wellings*

- Agent
 Addressee

B. Received by (Printed Name)

Barbara Wellings

C. Date of Delivery

1-4-12

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1899 22

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Mary Lee Glaspell
14723 WV Rt. 23
West Union, WV 26456



9590 9402 3306 7196 1891 68

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Mary Lee Glaspell* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

1-11-18

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING FORM



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1891 68

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

E. S. Childers (Heirs)
3335 Casanea Court
Huntington, WV 20639



9590 9402 3306 7196 1895 95

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Amanda Storm Agent
 Addressee

B. Received by (Printed Name)

AMANDA STORM

C. Date of Delivery

1-9-18

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1895 95

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

L. & Jeffrey Lynn McMillan (SURV)
20 Felix Drive
West Union, WV 26456



9590 9402 3306 7196 1898 30

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Jeffrey Lynn McMillan*

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

1/5

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

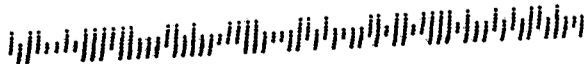
9590 9402 3306 7196 1898 30

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Charles & Patsy Heaster
2898 Punkin Center Road
West Union, WV 26456



9590 9402 3306 7196 1891 82

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Patsy Heaster

Agent

Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

1-5-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1891 82

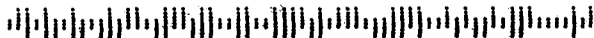
United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17-500

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

ard D. & Amy B. Spurlock, II (SURV)
192 Piggan Run Road
West Union, WV 26456



9590 9402 3306 7196 1899 60

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Amy Spurlock

Agent

Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

1-5-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1899 60

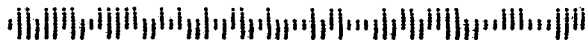
**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500

201205



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Clarence & Dawn Conner
61 Beagle Drive
West Union, WV 26456



9590 9402 3306 7196 1895 26

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Dawn Conner

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1895 26

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

M. & Melissa J. Duffelmeyer (SURV)
125 Riggins Run
West Union, WV 26456



9590 9402 3306 7196 1895 88

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Melissa Duffelmeyer Agent Addressee

B. Received by (Printed Name)

Melissa Duffelmeyer

C. Date of Delivery

1/19

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING*



9590 9402 3306 7196 1895 88



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Dennis & Glenda Kelley
2633 Eldersville Road
Follansbee, WV 26037



9590 9402 3306 7196 1895 71

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Anna M Kane* Agent
 Addressee

B. Received by (Printed Name)

ANNA M KANE

C. Date of Delivery

11/23/18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1895 71

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Brian Dawn McMillan
2748 Wylie Ridge Road
Weirton, WV 26062



9590 9402 3306 7196 1894 89

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Brian McMillan*

- Agent
 Addressee

B. Received by *(Printed Name)*

Brian McMillan

C. Date of Delivery

1-16-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

B

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING#



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 3306 7196 1894 89

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Karen Irene Sue McKinney
1352 Miletus Road
Salem, WV 26426



9590 9402 3306 7196 1898 54

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

[Handwritten Signature]

Agent

Addressee

B. Received by (Printed Name)

T. Mrs. McKinney

C. Date of Delivery

11/16/18

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below:

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING#



9590 9402 3306 7196 1898 54



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456

17500



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Gerald Brunner
163 Cable Road
Weirton, WV 26062



9590 9402 3306 7196 1896 63

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Gerald W. Brunner* Agent Addressee

B. Received by (Printed Name)

GERALD W. BRUNNER

C. Date of Delivery

1-18-14

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

USPS TRACKING #



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

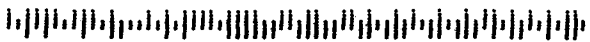
9590 9402 3306 7196 1896 63

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County OEM/CFM
George Eidel
105 Court Street, Suite 3
West Union, WV 26456**

17-500

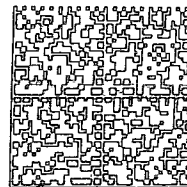


CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 8397



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

William & Ronald Griffith (SURV)
366 Chicken Farm Road
Clarksburg, WV 26301

*ET
1-4
P*

ANSWER AT BACK 1-9

NIXIE

250 DE 1

10

0001/29/18

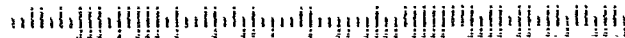
RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

UNC

BC: 26456201205

*2271-02038-03-44

2690 2690 2690 2690



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

William & Ronald Griffith (SURV)
366 Chicken Farm Road
Clarksburg, WV 26301



9590 9402 3306 7196 1891 75

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



Dear Sir or Ma'am,

December 28, 2017

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development/project identified by the following page.

No action is required of you. This letter is simply to inform you of the proposed development.

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

A handwritten signature in black ink, appearing to read "George Eidel".

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of January 1, 2018)

Please take notice that on the 27th day of **December, 2017**, **Stahl Sheaffer Engineering on Behalf of Columbia Gas** filed an application for a Floodplain Permit (**#17-500**) to develop land located at or about **SEE ATTACHED SHEET Coordinates SEE ATTACHED SHEET**. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **January 22, 2018** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is the Mountaineer Xpress Pipeline**

Columbia Gas Transmission's Mountaineer Xpress Pipeline

Floodplain Permit #17-500

Crossings

Location: Coordinates: Map Panel

1. McElroy Creek@Rt23	39.405828 N / -80.682072 W	54017C0045C
2. Riggins Run	39.393856 N / -80.684947 W	54017C0045C
3. Flint Run	39.344510 N / -80.697478 W	54017C0130C
4. Buckeye Creek	39.826099 N / -80711125 W	54017C0140C
5. Meathouse Fork	39.270220 N / -80.728077 W	54017C0140C
6. Meathouse Fork	39.261066 N / -80.724129 W	54017C0140C
7. Meathouse Fork	39.260235 N / -80.727304 W	54017C0140C
8. Bluestone Creek	39.245098 N / -80.758161 W	54017C0225C
9. Bluestone Creek	39.242306 N / -80.763096 W	54017C0225C
10. Bluestone Creek	39.239148 N / -80.765628 W	54017C0225C
11. South Fork Hughes River	39.204289 N / -80.832190 W	54017C0225C
12. Toms Fork	39.234462 N / -80.696298 W	54017C0230C
13. Meathouse Fork	39.214855 N / -80.678853 W	54017C0235C

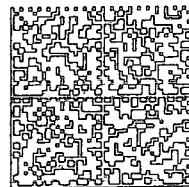
This pipeline starts in the North at the border with Tyler County north of Elk Lick Run at coordinates 39.430494 N/-80.683874 W running south to the intersection of Georges Run and Route 18 South Coordinates 39.261253 N/- 80.725674 W where the line splits. One branch runs west to Ritchie County ending around Sugar Run Road at about coordinate 39.197310 N/ -80.865170 W. The other branch runs east ending at Meathouse Fork Road at coordinate 39.215308 N /- 80.676042 W.

CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 7529



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

Unc

- Not Checked
- Left No Address
- Unable To Forward
- Attempted - Not Forwarded
- Unclaimed
- No Such Street
- Insufficient Address
- Address Used
- No Such Number

Jeffrey Swisher
379 Dakota Lane.
West Union, WV 26456

1/4 JW

1-10

1-19

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

**Jeffrey Swisher
379 Dakota Lane
West Union, WV 26456**



9590 9402 3306 7196 1887 96

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



Dear Sir or Ma'am,

December 28, 2017

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development/project identified by the following page.

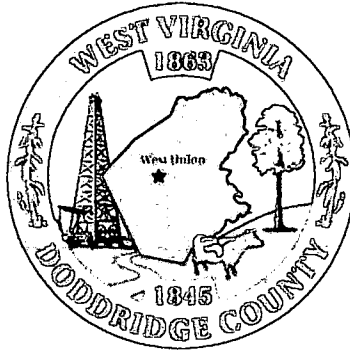
No action is required of you. This letter is simply to inform you of the proposed development.

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

A handwritten signature in black ink, appearing to read 'George Eidel'. The signature is written in a cursive, flowing style.

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of January 1, 2018)

Please take notice that on the 27th day of December, 2017, Stahl Sheaffer Engineering on Behalf of Columbia Gas filed an application for a Floodplain Permit (#17-500) to develop land located at or about **SEE ATTACHED SHEET Coordinates SEE ATTACHED SHEET**. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **January 22, 2018** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is the Mountaineer Xpress Pipeline**

Columbia Gas Transmission's Mountaineer Xpress Pipeline

Floodplain Permit #17-500

Crossings

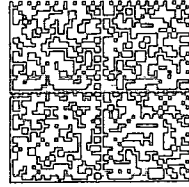
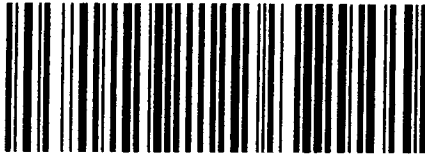
Location: Coordinates: Map Panel

1. McElroy Creek@Rt23	39.405828 N / -80.682072 W	54017C0045C
2. Riggins Run	39.393856 N / -80.684947 W	54017C0045C
3. Flint Run	39.344510 N / -80.697478 W	54017C0130C
4. Buckeye Creek	39.826099 N / -80711125 W	54017C0140C
5. Meathouse Fork	39.270220 N / -80.728077 W	54017C0140C
6. Meathouse Fork	39.261066 N / -80.724129 W	54017C0140C
7. Meathouse Fork	39.260235 N / -80.727304 W	54017C0140C
8. Bluestone Creek	39.245098 N / -80.758161 W	54017C0225C
9. Bluestone Creek	39.242306 N / -80.763096 W	54017C0225C
10. Bluestone Creek	39.239148 N / -80.765628 W	54017C0225C
11. South Fork Hughes River	39.204289 N / -80.832190 W	54017C0225C
12. Toms Fork	39.234462 N / -80.696298 W	54017C0230C
13. Meathouse Fork	39.214855 N / -80.678853 W	54017C0235C

This pipeline starts in the North at the border with Tyler County north of Elk Lick Run at coordinates 39.430494 N/-80.683874 W running south to the intersection of Georges Run and Route 18 South Coordinates 39.261253 N/- 80.725674 W where the line splits. One branch runs west to Ritchie County ending around Sugar Run Road at about coordinate 39.197310 N/ -80.865170 W. The other branch runs east ending at Meathouse Fork Road at coordinate 39.215308 N / -80.676042 W.

CERTIFIED MAIL

Floodplain Manager
Doddrige County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

7017 1450 0001 5869 5322

unc

- Moved - No Address
 - Unable To Forward
 - Attempted - Not Known
 - Unclaimed
 - No Such Street
 - Insufficient Address
 - No Such Number
- Barbara Yerkey**
5891 Big Flint Road
West Union, WV 26456

CHECKED

1/4 JW
1-10
1-19

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS FOLD AT BOTTOM

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Barbara Yerkey
5891 Big Flint Road
West Union, WV 26456



9590 9402 3306 7196 1897 93

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



Dear Sir or Ma'am,

December 28, 2017

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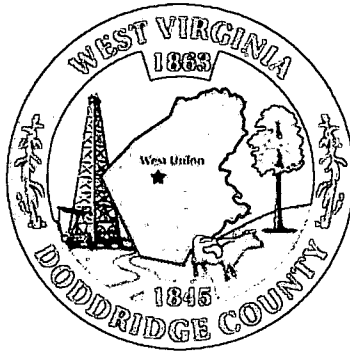
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Respectfully yours,

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George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of January 1, 2018)

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Columbia Gas Transmission's Mountaineer Xpress Pipeline

Floodplain Permit #17-500

Crossings

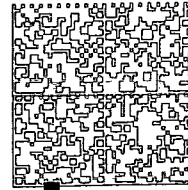
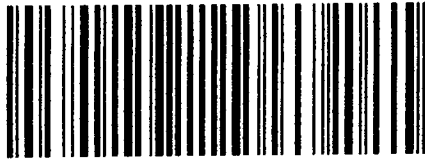
Location: Coordinates: Map Panel

1. McElroy Creek@Rt23	39.405828 N / -80.682072 W	54017C0045C
2. Riggins Run	39.393856 N / -80.684947 W	54017C0045C
3. Flint Run	39.344510 N / -80.697478 W	54017C0130C
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13. Meathouse Fork	39.214855 N / -80.678853 W	54017C0235C

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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

1450 0001 5871 7512

No Address
 Attempted - No Forward
 Unclaimed - No Forward
 No Return Street Address
 Insufficient Address
 Such Number

Michael W. & Jodi A. Swiger (SURV)
5577 Riggins Run
West Union, WV 26456

unc

1/4 JW
H-10
H-19

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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West Union, WV 26456



9590 9402 3306 7196 1887 89

2. Article Number (Transfer from service label)

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A. Signature

X

- Agent
- Addressee

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C. Date of Delivery

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- Adult Signature Restricted Delivery
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- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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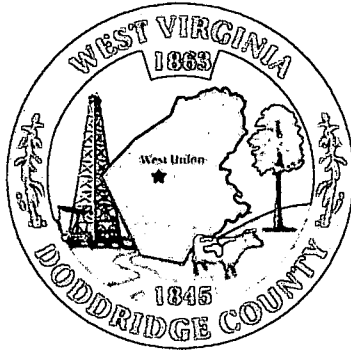
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Doddridge County Floodplain Permits

(Week of January 1, 2018)

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Columbia Gas Transmission's Mountaineer Xpress Pipeline

Floodplain Permit #17-500

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Location: Coordinates: Map Panel

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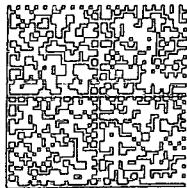
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 *519



HASLER

\$006.59⁰⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

- No Return Address
- Unclaimed
- Attempted
- Unclaimed
- No Such Street Address
- Insufficient Address
- No Such Number

Deanna & William Davis (SURV)
5891 Big Flint Road
West Union, WV 26456

UNCHECKED

1/4 JK

1-10
1-19

Uma

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**Deanna & William Davis (SURV)
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West Union, WV 26456**



9590 9402 3306 7196 1895 64

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X

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- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
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Doddridge County Floodplain Permits

(Week of January 1, 2018)

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Floodplain Permit #17-500

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Location: Coordinates: Map Panel

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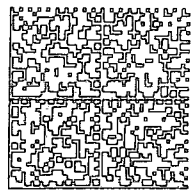
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 7406



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

Attempted
1-4-18
1-10
1-19
1-24

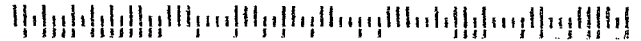
Lillian R. Bartee
3972 WV Rt 18 S
West Union, WV 26456

NIXIE Z50 DE 1 0001/31/18

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

UNC
26456>2012

BC: 26456201205 *1771-06316-31-26



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
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Lillian R. Bartee
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 West Union, WV 26456



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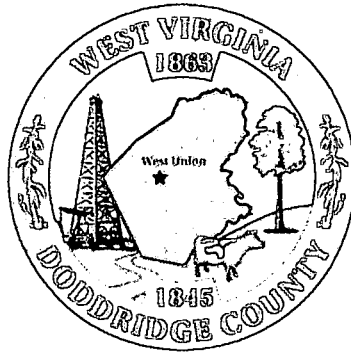
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Floodplain Permit #17-500

Crossings

Location:

Coordinates:

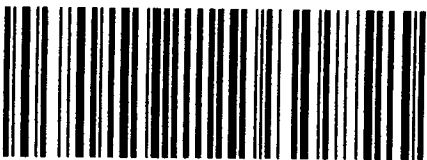
Map Panel

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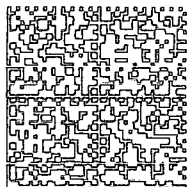
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5869 5209



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

Scotty & Martha Ruble
Rt. 3
Smithburg, WV 26436

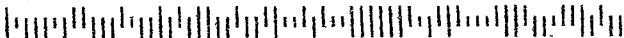
NIXIE 250 DE 1 0001/11/18

RETURN TO SENDER
NO SUCH NUMBER
UNABLE TO FORWARD

NSND

BC: 26456201205

*2271-02043-03-44



POSTNET

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
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Scotty & Martha Ruble
Rt. 3
Smithburg, WV 26436



9590 9402 3306 7196 1899 08

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X

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Floodplain Permit #17-500

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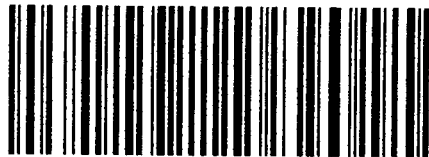
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13. Meathouse Fork	39.214855 N / -80.678853 W	54017C0235C

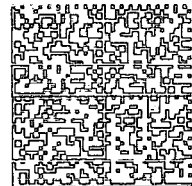
This pipeline starts in the North at the border with Tyler County north of Elk Lick Run at coordinates 39.430494 N/-80.683874 W running south to the intersection of Georges Run and Route 18 South Coordinates 39.261253 N/- 80.725674 W where the line splits. One branch runs west to Ritchie County ending around Sugar Run Road at about coordinate 39.197310 N/ -80.865170 W. The other branch runs east ending at Meathouse Fork Road at coordinate 39.215308 N /- 80.676042 W.

CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5869 5162



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

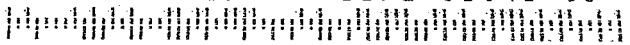
Edward C. & Fern F. Werner (SURV)
1 First American Way
Westlake, TX 76262

NIXIE 750 DE 1 0001/11/18

RETURN TO SENDER
NO SUCH STREET
UNABLE TO FORWARD

ISS
76262055002 002

BC: 26456201265 *2271-02042-00-44



POSTNET

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Edward C. & Fern F. Werner (SURV)
First American Way
Westlake, TX 76262



9590 9402 3306 7196 1898 61

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



Dear Sir or Ma'am,

December 28, 2017

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No action is required of you. This letter is simply to inform you of the proposed development.

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Respectfully yours,

A handwritten signature in black ink, appearing to read "George Eidel". The signature is stylized and cursive.

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of January 1, 2018)

Please take notice that on the 27th day of **December, 2017**, **Stahl Sheaffer Engineering on Behalf of Columbia Gas** filed an application for a Floodplain Permit **(#17-500)** to develop land located at or about **SEE ATTACHED SHEET Coordinates SEE ATTACHED SHEET**. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **January 22, 2018** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is the Mountaineer Xpress Pipeline**

Columbia Gas Transmission's Mountaineer Xpress Pipeline

Floodplain Permit #17-500

Crossings

Location:

Coordinates:

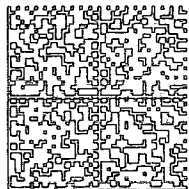
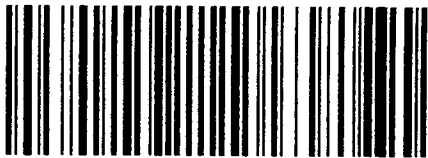
Map Panel

Location:	Coordinates:	Map Panel
1. McElroy Creek@Rt23	39.405828 N / -80.682072 W	54017C0045C
2. Riggins Run	39.393856 N / -80.684947 W	54017C0045C
3. Flint Run	39.344510 N / -80.697478 W	54017C0130C
4. Buckeye Creek	39.826099 N / -80711125 W	54017C0140C
5. Meathouse Fork	39.270220 N / -80.728077 W	54017C0140C
6. Meathouse Fork	39.261066 N / -80.724129 W	54017C0140C
7. Meathouse Fork	39.260235 N / -80.727304 W	54017C0140C
8. Bluestone Creek	39.245098 N / -80.758161 W	54017C0225C
9. Bluestone Creek	39.242306 N / -80.763096 W	54017C0225C
10. Bluestone Creek	39.239148 N / -80.765628 W	54017C0225C
11. South Fork Hughes River	39.204289 N / -80.832190 W	54017C0225C
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13. Meathouse Fork	39.214855 N / -80.678853 W	54017C0235C

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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

7017 1450 0001 5871 7338

Arnold Lee Bonnell
5095 Riggins Run Road
Salem, WV 26426

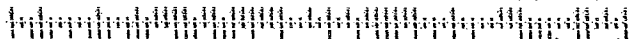
- Not Deliverable As Addressed
Unable To Forward
- Insufficient Address
- Moved, Left No Address
- Unclaimed Refused
- Attempted - Not Known
- No Such Street Number
- Vacant Illegible
- No Mail Receptacle
- Box Closed - No Order
- Returned For Better Address
- Postage Due _____

NIXIE 250 DE 1 0001/08/18

RETURN TO SENDER
NO SUCH STREET
UNABLE TO FORWARD

NSS
26426600012

BC: 26456201205 *2271-02051-03-44



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Arnold Lee Bonnell
5095 Riggins Run Road
Salem, WV 26426



9590 9402 2228 6193 5108 89

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
X

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



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December 28, 2017

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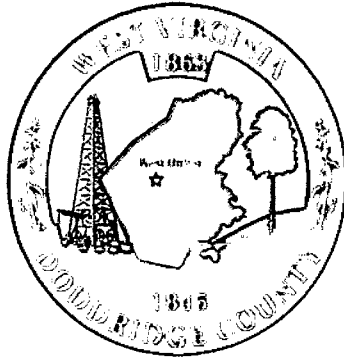
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Respectfully yours,

A handwritten signature in black ink, appearing to read 'George Eidel'. The signature is written in a cursive style with a large initial 'G'.

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of January 1, 2018)

Please take notice that on the 27th day of **December, 2017**, **Stahl Sheaffer Engineering on Behalf of Columbia Gas** filed an application for a Floodplain Permit (**#17-500**) to develop land located at or about **SEE ATTACHED SHEET Coordinates SEE ATTACHED SHEET**. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **January 22, 2018** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is the Mountaineer Xpress Pipeline**

Columbia Gas Transmission's Mountaineer Xpress Pipeline

Floodplain Permit #17-500

Crossings

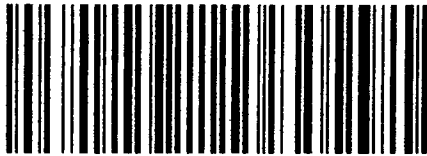
Location: Coordinates: Map Panel

1. McElroy Creek@Rt23	39.405828 N / -80.682072 W	54017C0045C
2. Riggins Run	39.393856 N / -80.684947 W	54017C0045C
3. Flint Run	39.344510 N / -80.697478 W	54017C0130C
4. Buckeye Creek	39.826099 N / -80711125 W	54017C0140C
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6. Meathouse Fork	39.261066 N / -80.724129 W	54017C0140C
7. Meathouse Fork	39.260235 N / -80.727304 W	54017C0140C
8. Bluestone Creek	39.245098 N / -80.758161 W	54017C0225C
9. Bluestone Creek	39.242306 N / -80.763096 W	54017C0225C
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12. Toms Fork	39.234462 N / -80.696298 W	54017C0230C
13. Meathouse Fork	39.214855 N / -80.678853 W	54017C0235C

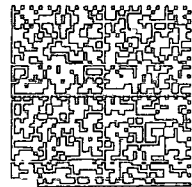
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5869 5216



HASLER

\$006.59⁰

01/03/2018 ZIP 26456
012E14643162

US POSTAGE

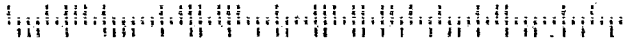
Anthony J. & Robin A. Wells (SURV)
9235 SE 178th Madeline Lane
The Villages, FL 32162

250 NFE 1 71610601/03/18
FORWARD TIME EXP RTN TO SEND
WELLS
9453 SE 162ND PL
WINTERFIELD FL 34401-5878

.. 9400921771004190

021020000000000000

RETURN TO SENDER



www.usps.com

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Anthony J. & Robin A. Wells (SURV)
924 SE 178th Madeline Lane
The Villages, FL 32162



9590 9402 3306 7196 1899 15

2. Article Number (Transfer from service label)

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



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December 28, 2017

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George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of January 1, 2018)

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Columbia Gas Transmission's Mountaineer Xpress Pipeline

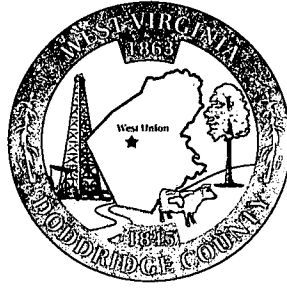
Floodplain Permit #17-500

Crossings

Location: Coordinates: Map Panel

Location:	Coordinates:	Map Panel
1. McElroy Creek@Rt23	39.405828 N / -80.682072 W	54017C0045C
2. Riggins Run	39.393856 N / -80.684947 W	54017C0045C
3. Flint Run	39.344510 N / -80.697478 W	54017C0130C
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7. Meathouse Fork	39.260235 N / -80.727304 W	54017C0140C
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Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. ***This permit must be posted at the site of work as to be clearly visible and must remain posted during entirety of development.***

Permit #: 17-500 (90 Day Extension)

Date Approved: January 18, 2019

Expires: April 18, 2019

Issued to: Columbia Gas Transmissions

POC: Karen Gleeson

Company Address: 5000 Waterdam Plaza Drive, Suite 120, McMurray, PA 15317

Project Address: Various Location, see permit

Firm: 54017C0130C

Lat/Long: 39.341920N/-80.693985W

Purpose of development: Mountaineer Express Pipeline

Issued by: George C. Eidel, Doddridge County FPM (or designee)

Date: 1/18/2019

For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.1343, or via email at
doddridgecountyfpm@gmail.com
105 Court Street Suite 3; West Union, WV 26456

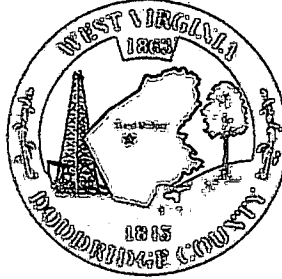
**Columbia Gas Transmission's Mountaineer Xpress Pipeline
Floodplain Permit #17-500**

Crossings

Location: Coordinates: Map Panel

1. McElroy Creek@Rt23	39.405828 N / -80.682072 W	54017C0045C
2. Riggins Run	39.393856 N / -80.684947 W	54017C0045C
3. Flint Run	39.344510 N / -80.697478 W	54017C0130C
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Floodplain Development Permit Doddridge County, WV Floodplain Management

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Permit: #18-500

Amendment for Addition of Temporary Water tanks for Pipeline Pressure Testing

Date Approved: February 20, 2018

Expires: February 20, 2019

Issued to: Columbia Gas Transmission

POC: Karen Gleason

Company Address: 5000 Waterdam Plaza Drive, Suite 120 McMurray, PA 15317

Project Address: See Attached

Firm: 54017C0130C

Lat/Long: 39.341920N, -80.693985W

Purpose of Development: Mountaineer Xpress Pipeline

Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)

Date: February 20, 2018

For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.2631, or via email at
doddridgecountyfpm@gmail.com
118 East Court Street; West Union, WV 26456



Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible and must remain posted during entirety of development.

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Issued to: Columbia Gas Transmission

POC: Karen Gleason

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Project Address: See Attached

Firm: 54017C0130C

Lat/Long: 39.341920N, -80.693985W

Purpose of Development: Mountaineer Xpress Pipeline

Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)

Date: February 20, 2018

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doddridgecountyfpm@gmail.com
118 East Court Street; West Union, WV 26456

Columbia Gas Transmission's Mountaineer Xpress Pipeline

Floodplain Permit #17-500

Crossings

Location: Coordinates: Map Panel

Location:	Coordinates:	Map Panel
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COPY

COPY

THE FACE OF THIS CHECK HAS A COLORED BACKGROUND AND THERE IS A WATERMARK AND SAFETY FEATURE LIST ON THE BACK

Citibank, N.A.
One Penn's Way
New Castle DE 19720

62-20
311

Columbia Gas Transmission, LLC

P.O. Box 2446 • Houston, TX 77252-2446

CHECK NO. 003029

COPY COPY

DATE 3/22/18
NOT CASHABLE AFTER ONE YEAR FROM THIS DATE

PAY TO THE ORDER OF Doddridge County Commission

ADDRESS 118 East Court St

CITY West Union COUNTY OR PARISH _____ STATE WV ZIP CODE 26456

AMOUNT One thousand ⁰⁰/₁₀₀ DOLLARS \$ 1,000⁻

NON-NEGOTIABLE OVER \$ 50,000

THE SIGNATURE LINE IS MICRO PRINTED - VIEW UNDER MAGNIFYING GLASS

BY [Signature] AGENT

⑈003029⑈ ⑆031100209⑆

38909228⑈

COPY

update to Amendment
FP Permit
#18-500 For
additional temporary tanks
for pressure testing line

Doddridge County, West Virginia

RECEIPT NO: 586

DATE: 2018/04/02

FROM: COLUMBIA GAS TRANSMISSION LLC AMOUNT: \$ 1,000.00

ONE THOUSAND DOLLARS AND 00 CENTS

FOR: #18-500 AMENDMENT & UPDATE FOR ADDITIONAL
TEMPORARY TANKS

00000003029 FP-BUILDING PERMITS

020-318

TOTAL: \$1,000.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

LETTER OF TRANSMITTAL

**STAHL SHEAFFER
ENGINEERING**

5000 Waterdam Plaza Drive, Ste. 120, McMurray, PA 15317
Phone: 724-960-1111 Fax: 724-960-1162

TO: Doddridge County Office of Emergency
Services
118 E. Court Street, Room 102
West Union, WV 26456

DATE: March 23, 2018
PROJECT: Mountaineer XPress Project
ATTENTION: George Eidel
RE: Floodplain Permit #18-500 Amendment

WE ARE SENDING YOU:

- | | | | | | |
|---|---------------------------------------|---|----------------------------------|--------------------------------|---|
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Prints | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples | <input type="checkbox"/> Under | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Copy of Letter | <input type="checkbox"/> Change Order | <input checked="" type="checkbox"/> Other | | | |

COPIES	DATE	DWG. NO.	DESCRIPTION
1	March 23, 2018		Doddridge County Floodplain Permit Application AMENDMENT
1	March 23, 2018		Check in the amount of \$1,000 for the Floodplain Permit fee

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> For Approval | <input type="checkbox"/> Approved as Submitted | <input type="checkbox"/> Resubmit copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return corrected prints |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Other: | |

REMARKS: Dear Mr. Eidel: As discussed, attached for your review is a hard copy of the addendum to the Doddridge County floodplain permit. Should you have any questions, please do not hesitate to call me at 724-960-1111 or email kgleason@sse-llc.com.

Thank you,
Karen

15-238 File
COPY TO: doddridgecountyfpm@gmail.com

SIGNED: 
Karen M. Gleason

THE FACE OF THIS CHECK HAS A COLORED BACKGROUND AND THERE IS A WATERMARK AND SAFETY FEATURE LIST ON THE BACK

Citibank, N.A.
One Penn's Way
New Castle DE 19720

62-20
311

CHECK NO. 002329

DATE 12/15/17

NOT CASHABLE AFTER ONE YEAR FROM THIS DATE

Columbia Gas Transmission, LLC

P.O. Box 2446 • Houston, TX 77252-2446

PAY TO THE
ORDER OF

Doddridge County Commission

ADDRESS

118 East Court Street

CITY West Union

COUNTY
OR PARISH

Doddridge

STATE WV

ZIP CODE 26456

AMOUNT

Twenty five thousand

00
100

DOLLARS \$ 25,000.00

NON-NEGOTIABLE OVER \$ 50,000

THE SIGNATURE LINE IS MICRO PRINTED - VIEW UNDER MAGNIFYING GLASS

BY

AGENT

⑈002329⑈ ⑆031100209⑆

38909228⑈

FP # 17-500

Doddridge County, West Virginia

RECEIPT NO: 10164

DATE: 2017/12/19

FROM: COLUMBIA GAS TRANSMISSION

AMOUNT: \$ 25,000.00

TWENTY FIVE THOUSAND DOLLARS AND 00 CENTS

FOR: #17-500 MOUNTAINEER XPRESS PROJECT

00000002329 FP-BUILDING PERMITS

020-318

TOTAL: \$25,000.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

FP # 17-500

LETTER OF TRANSMITTAL

STAHL SHEAFFER
ENGINEERING

5000 Waterdam Plaza Drive, Ste. 120, McMurray, PA 15317
Phone: 724-960-1111 Fax: 724-960-1162

TO: Doddridge County Office of Emergency
Services
118 E. Court Street, Room 102
West Union, WV 26456

DATE: December 15, 2017
PROJECT: Mountaineer XPress Project
ATTENTION: George Eidel
RE: Floodplain permits for pipeline transmission facilities

DEC 18 17 1:44PM

- WE ARE SENDING YOU:
- Attached
 - Under
 - Shop Drawings
 - Prints
 - Plans
 - Samples
 - Specifications
 - Copy of Letter
 - Change Order
 - Other

COPIES	DATE	DWG. NO.	DESCRIPTION
1	December 2017		Check in the amount of \$25,000.00 for the Floodplain Permit Application fee

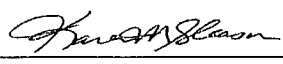
THESE ARE TRANSMITTED as checked below:

- For Approval
- For your use
- As requested
- For review and comment
- Approved as Submitted
- Approved as noted
- Returned for corrections
- Other:
- Resubmit copies for approval
- Submit for distribution
- Return corrected prints

REMARKS: Dear Mr. Eidel: attached for your review is a hard copy of the Doddridge County floodplain permit application for the subject project. Should you have any questions, please do not hesitate to call me at 724-960-1111 or email kgleason@sse-llc.com.

Thank you,
Karen

15-238 File
COPY TO: doddridgecountyfpm@gmail.com

SIGNED: 
Karen M. Gleason

FLOODPLAIN PERMIT #17-500

Columbia Gas Transmission/Mountaineer Xpress Pipeline

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	12/18/17	
* US ARMY CORP. ENGINEERS (USACE)	2/12/18	
US FISH & WILDLIFE SERVICES (USFWS)	12/12/17	
WV DEPT. NATURAL RESOURCES (WVDNR)	12/7/17	
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)	7/26/17	Air Quality + water + waste water
STATE HISTORIC & PRESERVATION OFFICE (SHPO)	12/15/17	
* OFFICE of LAND & STREAM (OLS)	2/12/18	
DATE OF COMMISSION READING	1/2/2018	
DATE AVAILABLE TO BE GRANTED	1/22/2018	
PERMIT GRANTED		
COMPLETE		

FERC

12/29/17

7017 1450 0001 5869 5247

7017 1450 0001 5869 5254

7017 1450 0001 5869 5261

7017 1450 0001 5869 5278

7017 1450 0001 5869 5285

7017 1450 0001 5869 5292

7017 1450 0001 5869 5308

7017 1450 0001 5869 5315

7017 1450 0001 5869 5322

7017 1450 0001 5869 5339

7017 1450 0001 5869 5346

7017 1450 0001 5869 5353

7017 1450 0001 5869 5360

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7017 1450 0001 5871 8489

7017 1450 0001 5871 8496

7017 1450 0001 5871 8502

7017 1450 0001 5871 8519

7017 1450 0001 5871 8526

7017 1450 0001 5871 7246

7017 1450 0001 5871 7253

7017 1450 0001 5871 7260

7017 1450 0001 5871 7277

7017 1450 0001 5871 7284

7017 1450 0001 5871 7291

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7017 1450 0001 5871 7314

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7017 1450 0001 5871 7345

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7017 1450 0001 5871 7383
7017 1450 0001 5871 7352

7017 1450 0001 5871 7420
7017 1450 0001 5871 7390
7017 1450 0001 5871 7369



Doddridge County Floodplain Permits

(Week of January 1, 2018)

Please take notice that on the 27th day of **December, 2017**, **Stahl Sheaffer Engineering on Behalf of Columbia Gas** filed an application for a Floodplain Permit (**#17-500**) to develop land located at or about **SEE ATTACHED SHEET Coordinates SEE ATTACHED SHEET**. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **January 22, 2018** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is the Mountaineer Xpress Pipeline**



Permit# 17-500
Project Name: mountaineer Xpress Pipeline
Permittees Name: Columbia Gas Transmission LLC

Doddridge County, WV

Floodplain Development Permit Application

This document is to be used for projects that impact/potentially impact the FEMA---designated floodplain and/or floodway of Doddridge County, WV pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance.

SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. I THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

APPLICANT'S SIGNATURE _____

DATE _____

[Signature]
12/11/17



Permit# _____

Project Name: _____

Permittees Name: _____

Doddridge County, WV

Floodplain Development Permit Application

This document is to be used for projects that impact/potentially impact the FEMA---designated floodplain and/or floodway of Doddridge County, WV pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance.

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7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. I THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

APPLICANT'S SIGNATURE _____

DATE _____

Aly Co
12/11/17

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: Columbia Gas Transmission		
Corporate Mailing Address: 700 Louisiana Street		
City: Houston	State: TX	Zip: 77002
Corporate Point of Contact (POC): Anthony Capp		
Corporate POC Title:		
Corporate POC Primary Phone: 304-670-5156		
Corporate POC Primary Email:		
Corporate FEIN:	Corporate DUNS:	
Corporate Website:		
Local Mailing Address:		
City:	State:	Zip:
Local Project Manager (PM):		
Local PM Primary Phone:		
Local PM Secondary Phone:		
Local PM Primary Email:		
Person Filing Application:		
Applicant Title:		
Applicant Primary Phone:		
Applicant Secondary Phone:		
Applicant Primary Email:		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Proposed Development:

Please check all elements of the proposed project that apply.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

<u>ACTIVITY</u>	<u>STRUCTURAL TYPE</u>
<input type="checkbox"/> New Structure	<input type="checkbox"/> Residential (1 – 4 Family)
<input type="checkbox"/> Addition	<input type="checkbox"/> Residential (more than 4 Family)
<input type="checkbox"/> Alteration	<input type="checkbox"/> Non-residential (floodproofing)
<input type="checkbox"/> Relocation	<input type="checkbox"/> Combined Use (res. & com.)
<input type="checkbox"/> Demolition	<input type="checkbox"/> Replacement
<input type="checkbox"/> Manufactured/Mobil Home	

B. OTHER DEVELOPMENT ACTIVITIES:

- Fill Mining Drilling Pipelining
- Grading
- Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse Alteration (including dredging and channel modification)
- Drainage Improvements (including culvert work)
- Road, Street, or Bridge Construction
- Subdivision (including new expansion)
- Individual Water or Sewer System
- Other (please specify)

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Development Site/Property Information:

Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)

Property Designation: ___ of ___

Site/Property Information:		
Legal Description: See attached for list of property addresses in the floodplain.		
Physical Address/911 Address:		
Decimal Latitude/Longitude:		
DMS Latitude/Longitude:		
District:	Map:	Parcel:
Land Book Description:		
Deed Book Reference:		
Tax Map Reference:		
Existing Buildings/Use of Property:		

Floodplain Location Data: (to be completed by Floodplain Manager or designee)			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No Zone: _____	
Notes:			

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: ____ of ____

Property Owner Data:		
Name of Primary Owner (PO): See attached list of property owners.		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Surface Rights Owner Data:		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Contractor Data:

Please provide all pertinent data for contractors and sub---contractors that may be participating in this project. Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: ____ of ____

Contractor/Sub-Contractor (C/SC) Information:		
C/SC Company Name: Associated Pipe Line Contractors, Inc.		
C/SC WV License Number: WV049235		
C/SC FEIN:	C/SC DUNS:	
Local C/SC Point of Contact (POC):		
Local C/SC POC Title:		
C/SC Mailing Address: 3535 Briarpark Drive, Suite 135		
City: Houston	State: TX	Zip-Code: 77042
Local C/SC Office Phone:		
Local C/SC POC Phone:		
Local C/SC POC E-Mail:		

Engineer Firm Information:		
Engineer Firm Name: Stahl Sheaffer Engineering		
Engineer WV License Number:		
Engineer Firm FEIN:	Engineer Firm DUNS:	
Engineer Firm Primary Point of Contact (POC): Karen Gleason		
Engineer Firm Primary POC Title: Senior Permitting		
Engineer Firm Mailing Address: 5000 Waterdam Plaza Drive		
City: McMurray	State: PA	Zip-Code: 15317
Engineer Firm Office Phone: 724-960-1111		
Engineer Firm Primary POC Phone:		
Engineer Firm Primary POC E-Mail: kgleason@sse-llc.com		

Adjacent and/or Affected Landowners Data

Please provide data for all adjacent and/or affected surface owners (both up and down stream) whose property may be impacted by proposed development as demonstrated by a floodplain study or survey. Use additional copies of this page as needed.

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): See attached for list of property owners within the floodplain.		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Site Plan

A Site Plan is an accurate and detailed map of the proposed development for this project. It shows the size, shape, location and special features of the project property, and the size and location of any development planned to the property, especially as that development will impact the floodplain and/or floodway. Site plans show what currently exists on the project property, and any changes or improvements you are proposing to make. **A certified and licensed engineering firm should complete site plans.**

A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:

1. Legal description of the parcel, north arrow and scale
2. All property lines and their dimensions
3. Names of adjacent roads, location of driveways
4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
6. Location and dimensions of existing or proposed on-site sewage systems.
7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
9. Location and dimensions of any roadway development into floodplain/floodway. *(Includes initial development access roads)*
10. Location and dimensions of any bridge and/or culvert development into floodplain/floodway.
11. Location and dimensions of any storage yard or facility into the floodplain/floodway.
12. Location of any existing utilities and/or proposed utility placement and/or displacement.
13. Location, dimensions and depth of any existing or proposed fill on site.
14. A survey showing the **existing ground elevations** of at least location on the building site. **ELEVATION NOTE:** All vertical datum will reference either NGVD 29 or NAVD 88. Assumed datum will not be acceptable unless the property is located in an area where vertical datum has not been published. For those areas where vertical datum has not been established, a site plan with contours, elevations using assumed datum, high water marks and existing water levels of sloughs, rivers, lakes or streams and proposed lowest floor elevation.

Applicant

Please read print name, sign and date below:

- I certify that I am authorized to submit this application for the primary project developer.
- I certify that the information included in this application is to the best of my knowledge true and complete.
- I certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have been properly attained, are current and valid, and must be presented with this application before a Doddridge County Floodplain Permit may be issued.
- I understand that if in the course of the development project additional permits become required that were not needed during the initial proposal, the primary developer must notify the Doddridge County Floodplain Manager within 48 hours of such need, and that a "Stop Work" order may be issued for all project work directly impacting the floodplain or floodway, until such time the required additional permits are acquired.
- I understand that once the floodplain permit is submitted, the application will be entered into official public record at the next regularly scheduled Doddridge County Commission meeting after the date of submittal.
- I understand that from the date of submittal of the fully completed permit application, the Doddridge County Floodplain Manager has ninety (90) days to make a determination to either grant or deny said permit application. During this approval period, the Doddridge County Floodplain Manager may, at his or her discretion, conduct a review and/or additional study of provided documentation by means of an independent engineering firm. All costs associated with said review and/or study must be reimbursed to the County before issuance of approved permit.
- I understand that during the approval period, the Doddridge County Floodplain Manager of designee may at his or her discretion conduct site visits and document conditions of proposed development pursuant to the permit application.
- I understand that once the Floodplain Permit is granted, the permit will be entered into official public record at the next scheduled Doddridge County Commission meeting after the date of issuance. Appeals to the permit may be made no later than twenty (20) days after said issuance. If a valid appeal is submitted, as determined by the Doddridge County Floodplain Manager, a "Stop Work" order will be issued for all project development directly involving the floodplain or floodway. A public hearing by the Doddridge County Appeals Board will be scheduled no less than ten (10) days after the next regularly scheduled Doddridge County Commission meeting.
- I understand that all decisions of the Doddridge County Appeals Board shall be final.
- **I understand issuance of a Floodplain Permit authorizes me to proceed with construction as proposed. A Certificate of Compliance is required upon substantial completion of the project.**
- In signing this application, the primary developer hereby grants the Doddridge County Floodplain Manager or designee the right to enter onto the above---described location to inspect the development work proposed, in progress, and/or completed.
- I understand that if I do not follow exactly the site---plan submitted and approved by this permit that a "Stop Work" order may be issued by the Wirt County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

Applicant Signature



Date:

12/11/2017

Applicant Printed Name:

Anthony Capp

Description of Work to be completed: (Doddridge County)

Columbia Gas Transmission, LLC (Columbia) is proposing to construct, modify, operate, and maintain various natural gas transmission pipeline facilities in West Virginia, referred to as the Mountaineer XPress Project (Project or MXP). The Project will involve the construction and operation of approximately 170.9 miles of various diameter pipeline, modifications to one existing compressor station and two new compressor stations being constructed as part of other Columbia projects, construction of three new compressor stations, three new regulating stations, and other modifications at a number of aboveground facility sites, all of which occur in West Virginia. The Project is regulated by the Federal Energy Regulatory Commission (FERC) under Section 7(c) of the Natural Gas Act.

Within Doddridge County, the Project will consist of the construction of the pipeline, temporary access roads, pipe yards or storage facilities, MXP 4 valve site, Sherwood Compressor station, MXP-200 tie in, MXP-5 valve site access road ARDO003. This application for a floodplain permit is for temporary impacts to the floodplains associated with the construction of the pipeline, temporary access roads, pipe yards or storage facilities and any permanent above ground facilities within the regulated FEMA floodplains or flood hazard areas. MLV-4 and ARDO003 are permanent above ground facilities within FEMA regulated floodplains proposed in Doddridge County. Any grading or fill associated with the pipeline right of way, temporary access roads, and pipe yards is anticipated to be temporary and will be restored in accordance with Columbia's ECS, environmental permit requirements, landowner agreements, or to existing conditions upon completion of construction.

For temporary construction through floodplains which require a stream crossing, during the clearing and grading phase of construction, temporary equipment crossings (bridges) will typically be installed across waterbodies to allow construction equipment and personnel to cross. The bridges may include clean rock fill over culverts, timber mats supported by flumes, railcar flatbeds, flexi-float apparatuses, or other types of spans. Temporary bridges will be constructed in accordance with Columbia's ECS to minimize the potential for sediment, grease, oil, or other pollutants to enter the waterbody. The clearing crew and related equipment, as well as equipment necessary for installation of temporary equipment crossings, will be allowed a single pass through a waterbody prior to installation of the equipment crossing unless restricted by other federal, state, or local agency requirements, to allow for the proper preparation of the bridge location. All other construction equipment will be required to use the bridges. Temporary bridges will be installed to withstand the highest flow expected to occur while the structure is in place and will be removed when construction and restoration activities are complete. Due to the anticipated duration of temporary impacts to the floodplains associated with construction of the pipeline, access roads, and yards, adverse impacts are not anticipated to the regulated floodplains.

For temporary pipe yards in floodplains, the contractor will be de-top soiling and applying gravel in order to stabilize the storage area. A top soil berm is proposed on the high side of the yard to direct runoff around the site. The contractor will place silt fence around the yard to keep debris from getting outside of the LOD's. If possible, material will be stored outside of the floodplain boundary. Material will either be removed from the yard in the event of a flood, or the contractor will tie the material down, either with a net or tying the material together with cables. When the yard is no longer needed for construction, the temporary pipe and storage yards will be restored in accordance with Columbia's ECS, environmental permit requirements, landowner agreements or to existing conditions so as not to alter or impact the floodplain under proposed conditions.

For temporary access road improvements or access road construction within a floodplain, access roads may need to be upgraded or constructed for use by the contractor during construction. Any upgrades to existing roads or newly constructed access roads within the regulated floodplains indicated on the figures provided will be removed after the completion of construction and the sites restored to

existing conditions or in accordance with landowner agreements. The temporary access roads will not adversely impact the FEMA regulated floodplains under proposed or permanent conditions.

MLV4 is a proposed permanent main line valve site for the project. The FEMA WSEL is shown at 763 on the FEMA FIRM map and will remain at 763 under proposed conditions. The site presents a minimal or negligible obstruction to flow of water along McElroy Creek. There are no printed sections available for McElroy Creek so a comparison of cross sectional area based on survey and LIDAR has been made. The proposed grading plan results in a 12.62% decrease in floodplain cross-sectional area and negligible increase to the 100-year floodway elevation (i.e., 0.0031444 ft.). Additionally, grading below the BFE results in a net placement of earth (79.48 square feet) within the approximated 100-year floodplain. When compared to the overall cross-sectional area of the entire 100-year floodplain (i.e., smaller cross-sectional area than the surveyed floodway cross-sectional area), grading within the 100-year floodplain results in a negligible increase to the BFE and only a shift of the boundary within the project area. It is approximated that the appurtenant structures are located outside of the floodplain through the placement of fill for the pad. All other disturbance within this vicinity for construction of the pipeline is temporary, and will be restored as practical to the existing conditions. Therefore, no rise to the BFE or floodway elevations on McElroy Creek will occur as a result of the proposed grading plan. The flood boundary will remain similar to existing conditions at the site and will not adversely impact adjacent property owners, velocities, or channel capacity along McElroy Creek.

ARDO003 an existing access road proposed for permanent use by the MXP project. ARDO003 is an existing roadway that will have minimal to no improvements for the proposed condition. For temporary use, a temporary equipment crossing in compliance with the environmental permits for the project, will be placed across Flint Run to allow for use of the stream crossing by larger equipment. The existing ford crossing of Flint Run will be restored or maintained after construction is complete and the temporary equipment crossing removed. Gravel placed for resurfacing or improving the road is not to exceed 6" above existing grade. Flint Run does not have published or printed sections or discharges determined within the FEMA FIS. Flint Run at the site of ARDO003 is located in Zone A, or studied by approximate methods. The maintenance of the existing access road, ARDO003, for permanent use will not have any impact on the flood boundary shown for Flint Run on the FEMA FIRM map.



<p>Flood Zone Hazard</p> <ul style="list-style-type: none"> 0.2 PCT ANNUAL CHANCE FLOOD HAZARD AE A X AREA NOT INCLUDED Hydrotest Water Tanks 	<p>ROW</p> <ul style="list-style-type: none"> Permanent Easement Temp workspace Addit workspace Proposed Yards 	<p>West Virginia Roads</p> <ul style="list-style-type: none"> Interstate US WV CR CR Subroute <p>Pipeline Facilities</p> <ul style="list-style-type: none"> Compressor Station Valve Site
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**MOUNTAINEER XPRESS PROJECT
HYDRO TANK AREAS
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Variance 931**

0 250 500

Feet

N

Date: 1/31/2018

Columbia Pipeline Group

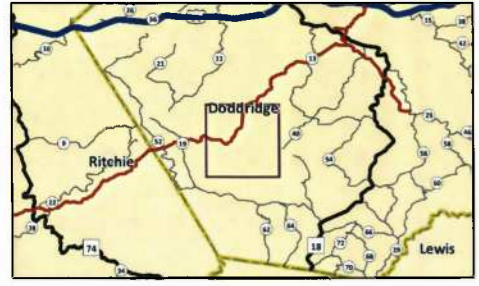
STAHL SHEAFFER ENGINEERING



WV-DO-0361.000

Doddridge

MAP OVERVIEW

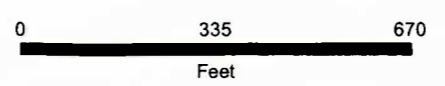


- Flood Zone Hazard**
- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
 - AE
 - A
 - X
 - AREA NOT INCLUDED
 - Hydrotest Water Tanks

- ROW**
- Permanent Easement
 - Temp workspace
 - Addit workspace
 - Proposed Yards

- West Virginia Roads**
- Interstate
 - US
 - WV
 - CR
 - CR Subroute
- Pipeline Facilities**
- Compressor Station
 - Valve Site

**MOUNTIANEER XPRESS PROJECT
HYDRO TANK AREAS
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Variance 842**



Date: 1/31/2018





<p>Flood Zone Hazard</p> <ul style="list-style-type: none"> 0.2 PCT ANNUAL CHANCE FLOOD HAZARD AE A X AREA NOT INCLUDED Hydrotest Water Tanks 	<p> Mile Post</p> <ul style="list-style-type: none"> Access Roads Pipeline Centerline Pipeline Centerline Sup2 <p>ROW</p> <ul style="list-style-type: none"> Permanent Easement Temp workspace Addit workspace Proposed Yards 	<p>West Virginia Roads</p> <ul style="list-style-type: none"> Interstate US WV CR CR Subroute <p>Pipeline Facilities</p> <ul style="list-style-type: none"> Compressor Station Valve Site
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**MOUNTIANEER XPRESS PROJECT
HYDRO TANK AREAS
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Variance 790**

0 250 500
Feet

N

Date: 1/31/2018

Columbia Pipeline Group

STAHL SHEAFFER ENGINEERING

FLOODWAY "NO-RISE / NO-IMPACT" CERTIFICATION

MAR30 18 9:52AM

This document is to certify that I am duly qualified engineer licensed to practice in the State of

West Virginia

(State)

. It is to further certify that the attached technical data supports

the fact that proposed

Mountaineer Xpress Project

(Name of Development)

will not adversely impact the base

S. Fork Hughes River,
Meathouse Fork and McElroy

Flood elevations, floodway elevations and widths on

Creek

(Name of Stream)

at published

cross sections in the Flood Insurance Study for,

Doddridge County

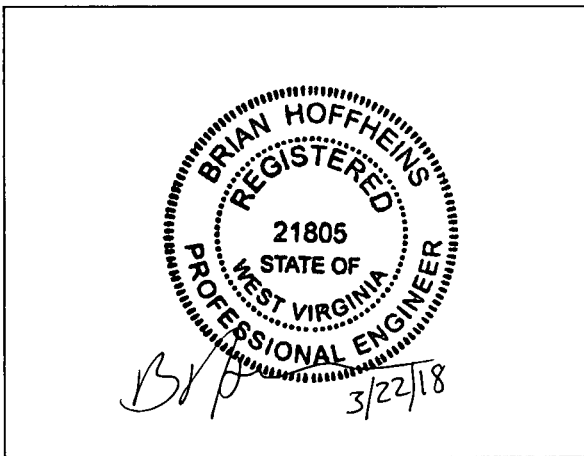
(Name of community)

, dated October 4, 2011

(Date)

and will not impact the base flood elevations, floodway elevations, and floodway widths at the

unpublished cross-sections in the area of the proposed development.



SEAL, SIGNATURE AND DATE

Brian R Hoffheins Jr, PE

Name

Project Manager

Title

301 Science Park, Suite 333

State College PA 16803

Address

FOR COMMUNITY USE ONLY:

Community Approval

Approved

Disapproved

Community Official's Name

Community Official's Signature

Title

MXP Hydrotest locations

The purpose of this submission is to amend the existing Floodplain Development Permit #18-500 in Doddridge County. Any improvements made to the hydrotest locations are temporary and the site will be restored to existing conditions.

The temporary access road will be no more than 6 inches above existing ground elevations. The tanks will be installed on a level area. No fill will be brought into the floodplain to create a level surface. If grading is required, only excavation of existing ground may be performed within the floodplain to create a level surface. Grading may only include excavation that would create a net zero effect on the available cross sectional volume of the floodplain at the site and not reduce capacity, alter, or dam the direction or velocity of flow that would cause adverse impacts to the floodplain or channel at the site, to adjacent property owners or to the stream channel. Excavated material which we decrease the available volume of the floodplain or stream channel may not be placed, graded, or stored within the floodplain and shall be temporarily removed from the floodplain. The material may be used after the removal of the tanks to restore the area back to existing conditions. In anticipation of a flooding event, the tanks will be ballasted, anchored, or filled. Any other materials within the floodplain for the purpose of the proposed work must be secured or removed during a flooding event by the contractor. The tank sites will be restored to existing conditions after completion of the project and therefore will not adversely impact the existing base flood elevations, floodway elevations or floodway widths within or adjacent to the project area.

MAR30 18 9:52AM

**Mountaineer XPress Project
Environmental Permits, Approvals, and Consultations**

Agency	Permit/Approval/Consultation	Filing Date (Anticipated)	Receipt Date (Anticipated)
Federal			
Federal Energy Regulatory Commission	Certificate of Public Convenience and Necessity under Section 7(c) of the Natural Gas Act	April 29, 2016	(December 2017)
U.S. Army Corps of Engineers – Pittsburgh, Huntington Districts	Department of the Army Permits under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act (Joint Permit Application)	July 8, 2016	(December 2017)
U.S. Fish and Wildlife Service – West Virginia Ecological Field Services Office	Consultation under Section 7 of the Endangered Species Act	July 2015 ^a	December 7, 2017
State: West Virginia			
West Virginia Department of Environmental Protection- Division of Air Quality	Air Permit – Title V Permit	April 29, 2016	December 12, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Water Quality Certificate under Section 401 of the Clean Water Act	July 21, 2016	July, 26, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	West Virginia Water Pollution Control Permit – Stormwater Associated with Oil and Gas Related Construction Activities – WV0116815	April 27, 2017	(December 2017)
West Virginia Department of Environmental Protection – Division of Water and Waste Management	National Pollutant Discharge Elimination System – Water Pollution Control Permit for Hydrostatic Testing Water – WV0113069	(November 2017)	(January 2018)
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Large Quantity Water Use Registration	(November 2017)	(January 2018)
West Virginia Division of Culture and History	Consultation under Section 106 of the National Historic Preservation Act	July 2015	December 15, 2017
West Virginia Division of Natural Resources – Natural Heritage Program	Natural Heritage/Protected Species Consultation	July 2015	December 2017
West Virginia Division of Natural Resources – Office of Land and Streams	Stream Activity Permit (Joint Application with the Public Lands Corporation)	October 2017	(December 2017)

^a To comply with the provisions of the Endangered Species Act, Columbia has evaluated and certified that the Project activities are consistent with the U.S. Fish and Wildlife Service approved NiSource/Columbia Multi-Species Habitat Conservation Plan and the resulting programmatic Section 7 consultation. ESA closure is predicated on Columbia receiving FERC authorization for the Project.



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200
South Charleston WV 25303-1228
TDD (304) 558-1439
TDD 1-800-354-6087
Fax (304) 558-6048
Telephone (304) 558-3225

Jim Justice
Governor

Stephen S. McDaniel
Director

January 12, 2018

Division of Natural Resources
LICENSE AND RIGHT OF ENTRY

FEB27 18 8:57AM

Re: P-17-VI/09-2020

Columbia Gas Transmissions, LLC
Eric Duncan
c/o ERM
Attention: Tim Andersen
1000 IDS Center, 80 S. Eighth Street
Minneapolis, MN 55402-

Dear Mr. Duncan:

The Division of Natural Resources hereby grants to you for a term of ten (10) years, from the date hereof, a License and Right of Entry to construct, replace, cover, repair, operate, maintain, use and remove a thirty-six inch (36") steel natural gas pipeline at six (6) separate locations, a twenty-four inch (24") pipeline at four (4) separate locations (Mountain Xpress Project) along McElroy Creek, Flint Run, Buckeye Creek, Meathouse Fork, Bluestone Creek, the South Fork Hughes River, and Toms Fork, near Smithburg, Pullman, and New Milton in Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A - H.

This License and Right of Entry is subject to the following terms and conditions:

High Quality Streams (HQS) as listed in the West Virginia Division of Natural Resources High Quality Stream Sixth Edition published in 2001 and for any trout streams and direct tributaries of trout streams:

- Directional boring is the only method permitted during the fish spawning season. Fish spawning season for warmwater streams runs from April 1st through June 30th. Trout spawning season runs from October 1st through April 30th.
- Other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used outside of spawning seasons. Dry Crossings should only occur during periods of low-flow.

Non-high quality stream:

- Directional boring or other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may

Columbia Gas Transmissions, LLC
P-17-VI/09-2020
Page 2
January 12, 2018

be used at all times during fish spawning season from April 1st through June 30th.
This eliminates the need for spawning season restrictions.

- Only ephemeral/intermittent streams that are dry can be trenched. Dry Crossings should only occur during periods of low-flow.

Bank Stabilization

All bank stabilization projects must begin immediately upon completion of utility line crossing.

Stream Crossings

Stream crossings must be completed in a continuous and progressive manner within 72 hours unless otherwise limited or extended by a WV biologist, on a case by case evaluation.

Freshwater Mussels

Mussel surveys on streams with known US Fish and Wildlife listed or candidate endangered species will be required if directional boring is not an option. Contact Janet Clayton of the WVDNR Wildlife Diversity Program for information concerning mussels at 304-637-0245.

For further assistance, contact the appropriate WVDNR District Fisheries Biologist.
District 1 304-825-6787 District 2 304-822-3551 District 3 304-924-6211
District 4 304-256-6947 District 5 304-675-0871 District 6 304-420-4550

The issuance of this License and Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this License and Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This License and Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this License and Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your check in the amount of \$4150.00 is now due and payable to the Division of Natural Resources covering the (10) ten-year fee of this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,



Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

attachment

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers

Columbia Gas Transmissions, LLC
P-17-VI/09-2020
Page 2
January 12, 2018



DIVISION OF NATURAL RESOURCES
324 4th Avenue, Room 200
South Charleston, West Virginia 25303-1228
Telephone 304-558-3225
Fax 304-558-6048
TDD 304-558-1439
TDD 800-354-6087

Stephen S. McDaniel
Director

FEB27 10 8:57AM

February 9, 2018

Division of Natural Resources
RIGHT OF ENTRY

Re: **LS-18-VI/09-267**

Columbia Gas Transmission, LLC
Erik Duncan
c/o ERM
Attention: Tim Andersen
1000 IDS Center, 80 S. Eight Street
Minneapolis, MN 55402-

Dear Mr. Duncan:

The Division of Natural Resources hereby grants to you for a period of ten (10) years from the date hereof, a Right of Entry for the purpose of installing and maintaining a timber mat crossing and/or a minimum twenty foot (20') length and minimum sixteen inch (16") diameter culvert in the streambeds (when necessary, sized not to restrict highest expected flow, and removed when construction and restoration activities are complete) at ten (10) separate locations (Mountain Xpress Project) along McElroy Creek, Flint Run, Buckeye Creek, Meathouse Fork, Bluestone Creek, the South Fork Hughes River, and Toms Fork near Smithburg, Pullman, and New Milton in Doddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

1. No in stream work during the fish-spawning season (April 1-June 30).
2. Work should be completed as quickly as possible during low flows in designated work areas only.
3. Any streambed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
4. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.

5. Green concrete must not be put in the stream (highly toxic to aquatic life).
6. Guidance should be obtained from NRCS (formerly SCS) and a registered engineer for the design and construction. Must allow for passage of at least ten-year year flood flow.
7. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.
8. Applicant is responsible for removing debris from in and around the installation periodically to prevent stream flow obstruction.
9. Durable head walls of logs, crossties, rock, or concrete shall be constructed at both the upstream and downstream ends of crossing to prevent erosion of fill material into the stream.
10. Bridge and culvert installation should not impede passage of recreational water craft. Water craft must be able to pass through or over the structure, whichever the applicant prefers.
11. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State assume any liability for the applicant's/landowner's construction activities. By accepting this Right-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this activity to both upstream and downstream landowners.
12. A 404 permit may be required from the U.S. Army Corps of Engineers. You may call them at 304-529-5710 or 412-395-7155.

Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity for you to obtain a permit from the U.S. Corps of Engineers District Office, Permit Section, or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

LS-18-VI/09-267
Page 3
February 9, 2018

Your payment in the amount of \$1000.00 is now due and payable to the Division of Natural Resources covering the first year's annual fee of this agreement. You must notify the Division in writing with this installation has been removed. Your agreement will be effective upon receipt of your payment in full.

Sincerely,



Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

pc: DNR Fish Biologist
Mr. Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers



DIVISION OF NATURAL RESOURCES
324 Fourth Avenue, Room 200
South Charleston WV 25303-1228
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Telephone (304) 558-3225

Jim Justice
Governor

Stephen S. McDaniel
Director

FEB27 18 9:21AM

January 12, 2018

Division of Natural Resources
LICENSE AND RIGHT OF ENTRY

Re: P-17-VI/09-2020

Columbia Gas Transmissions, LLC
Eric Duncan
c/o ERM
Attention: Tim Andersen
1000 IDS Center, 80 S. Eighth Street
Minneapolis, MN 55402-

Dear Mr. Duncan:

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Stream crossings must be completed in a continuous and progressive manner within 72 hours unless otherwise limited or extended by a WV biologist, on a case by case evaluation.

Freshwater Mussels

Mussel surveys on streams with known US Fish and Wildlife listed or candidate endangered species will be required if directional boring is not an option. Contact Janet Clayton of the WVDNR Wildlife Diversity Program for information concerning mussels at 304-637-0245.

For further assistance, contact the appropriate WVDNR District Fisheries Biologist.
District 1 304-825-6787 District 2 304-822-3551 District 3 304-924-6211
District 4 304-256-6947 District 5 304-675-0871 District 6 304-420-4550

The issuance of this License and Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this License and Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This License and Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this License and Right of Entry will be canceled and considered null and void and the Division will reject further applications.

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Sincerely,



Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

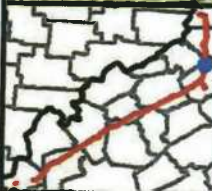
attachment

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers

Columbia Gas Transmissions, LLC
P-17-VI/09-2020
Page 2
January 12, 2018



This information is for informational purposes only.



- Milepost
- Proposed Centerline
- HQ Waters
- Non-HQ Waters
- Permanent Workspace
- Temporary Workspace
- Additional Temporary Workspace
- Access Road

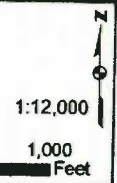


Figure 4B Page 2 of 16
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission





Figure 4B Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission



This information is for environmental review purposes only.

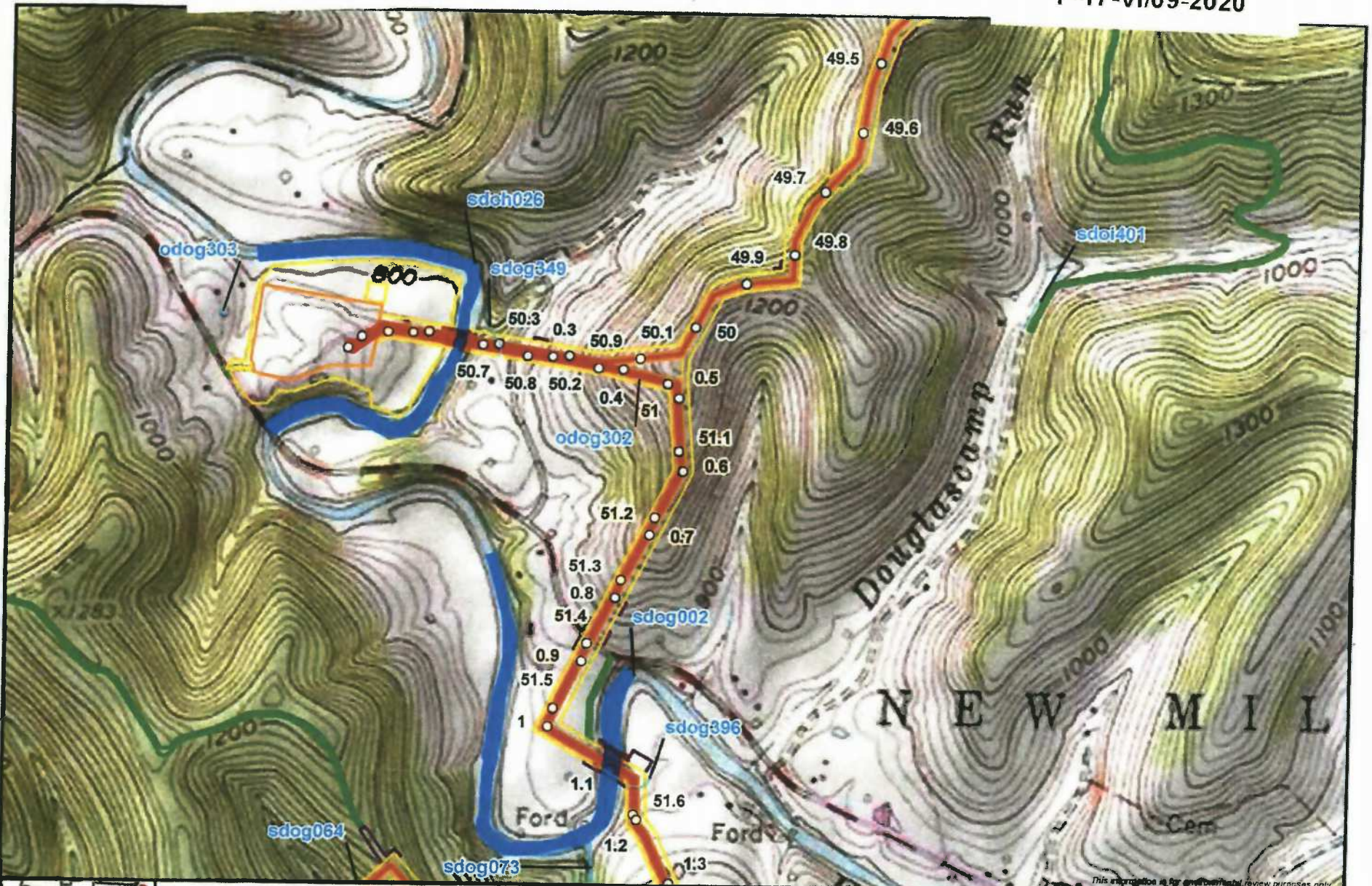
	Milepost		Permanent Workspace
	Proposed Centerline		Temporary Workspace
	HQ Waters		Additional Temporary Workspace
	Non-HQ Waters		Access Road

1:12,000

0 500 1,000
Feet

Page 7 of 16

Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

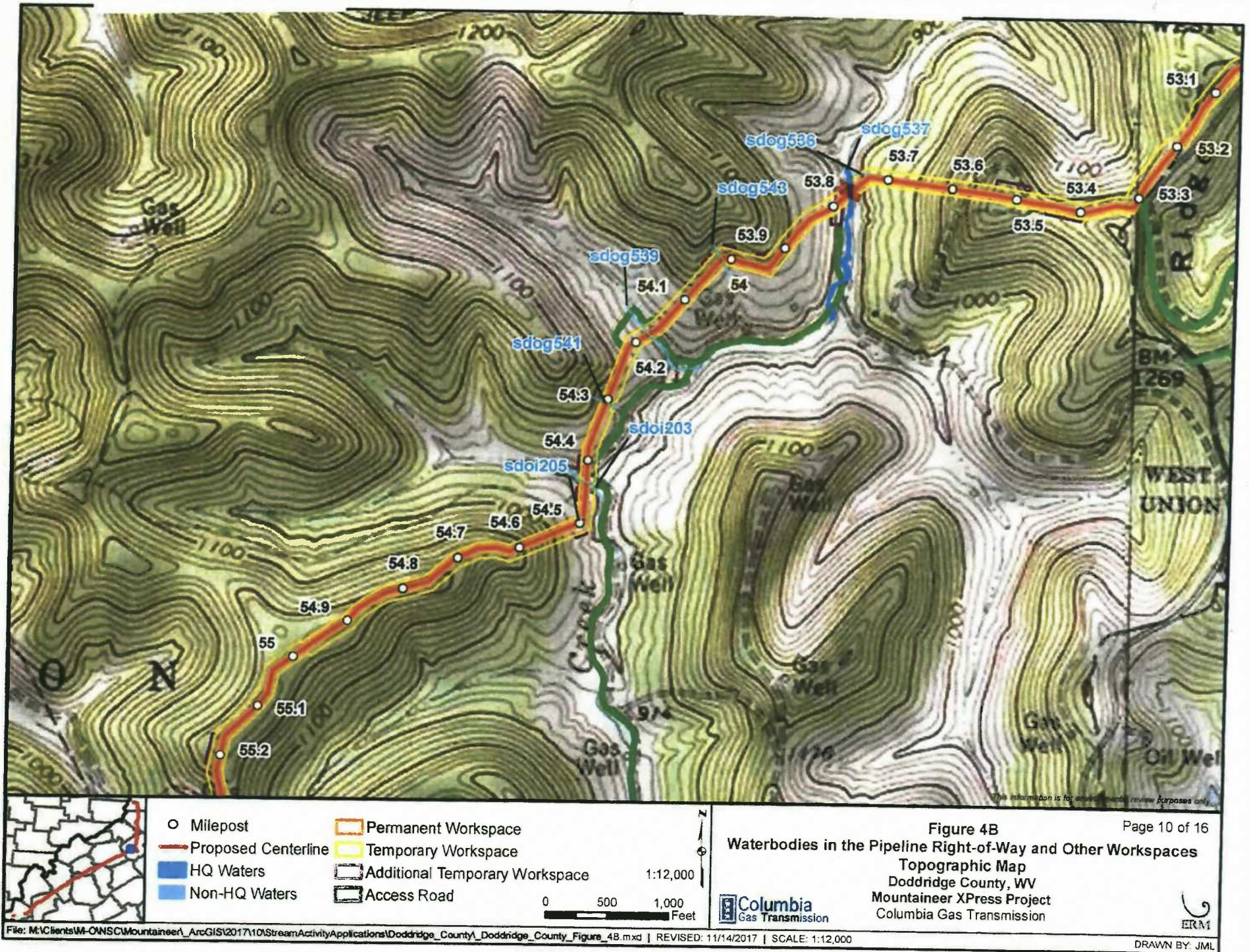


This map is for environmental review purposes only.



○ Milepost	Permanent Workspace	 1:12,000 0 500 1,000 Feet
— Proposed Centerline	Temporary Workspace	
■ HQ Waters	Additional Temporary Workspace	
■ Non-HQ Waters	Access Road	

Figure 4B Page 8 of 16
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer Xpress Project
 Columbia Gas Transmission



This information is for informational review purposes only.

	Milepost		Permanent Workspace
	Proposed Centerline		Temporary Workspace
	HQ Waters		Additional Temporary Workspace
	Non-HQ Waters		Access Road

1:12,000
0 500 1,000 Feet

Page 10 of 16

Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

EIR/1
 DRAWN BY: JML



This information is for environmental review purposes only.

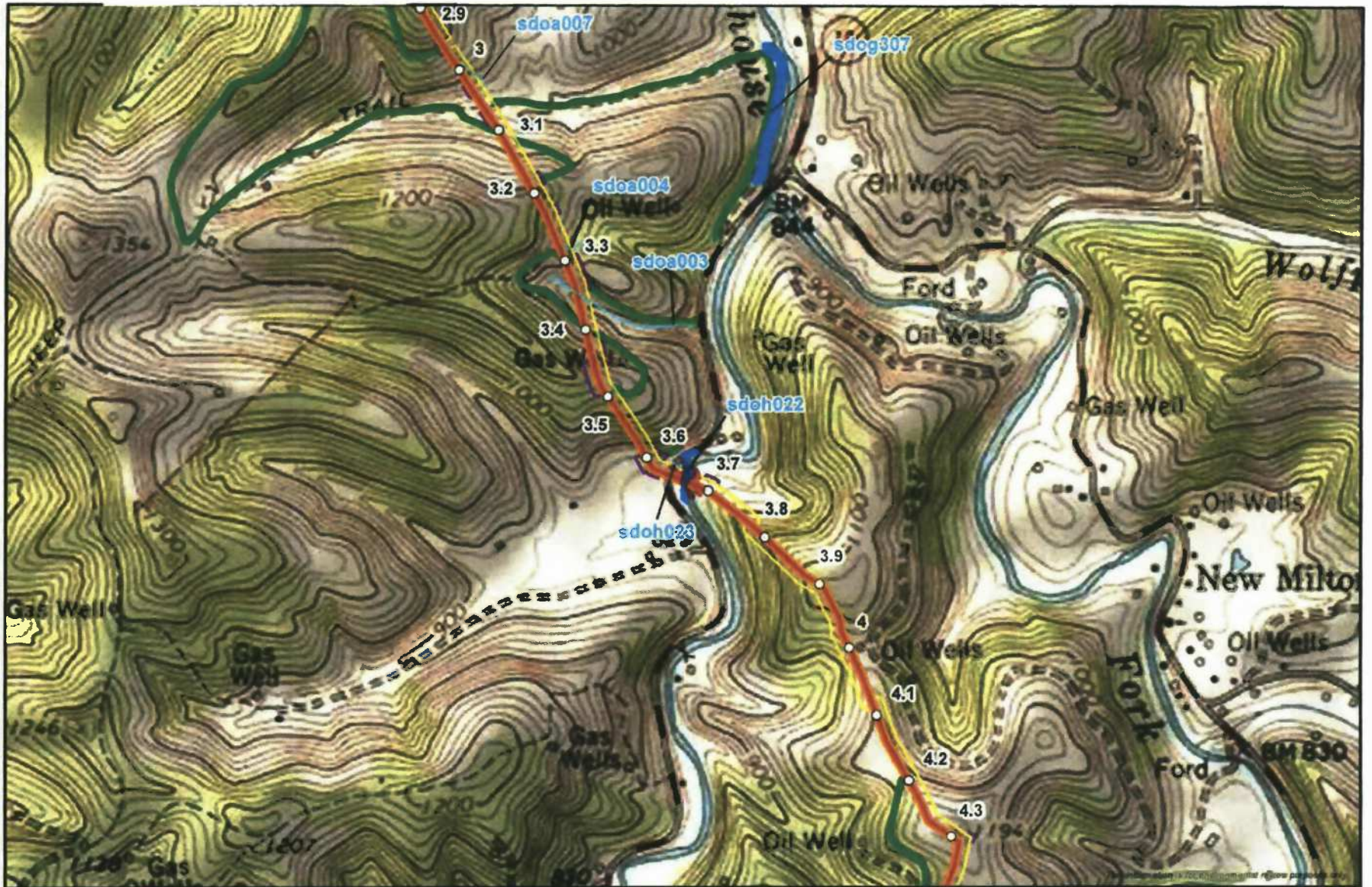


- Milepost
 - Proposed Centerline
 - HQ Waters
 - Non-HQ Waters
 - ▭ Permanent Workspace
 - ▭ Temporary Workspace
 - ▭ Additional Temporary Workspace
 - ▭ Access Road
- 1:12,000
- 0 500 1,000 Feet

Page 12 of 16

Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

ERM

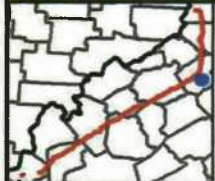
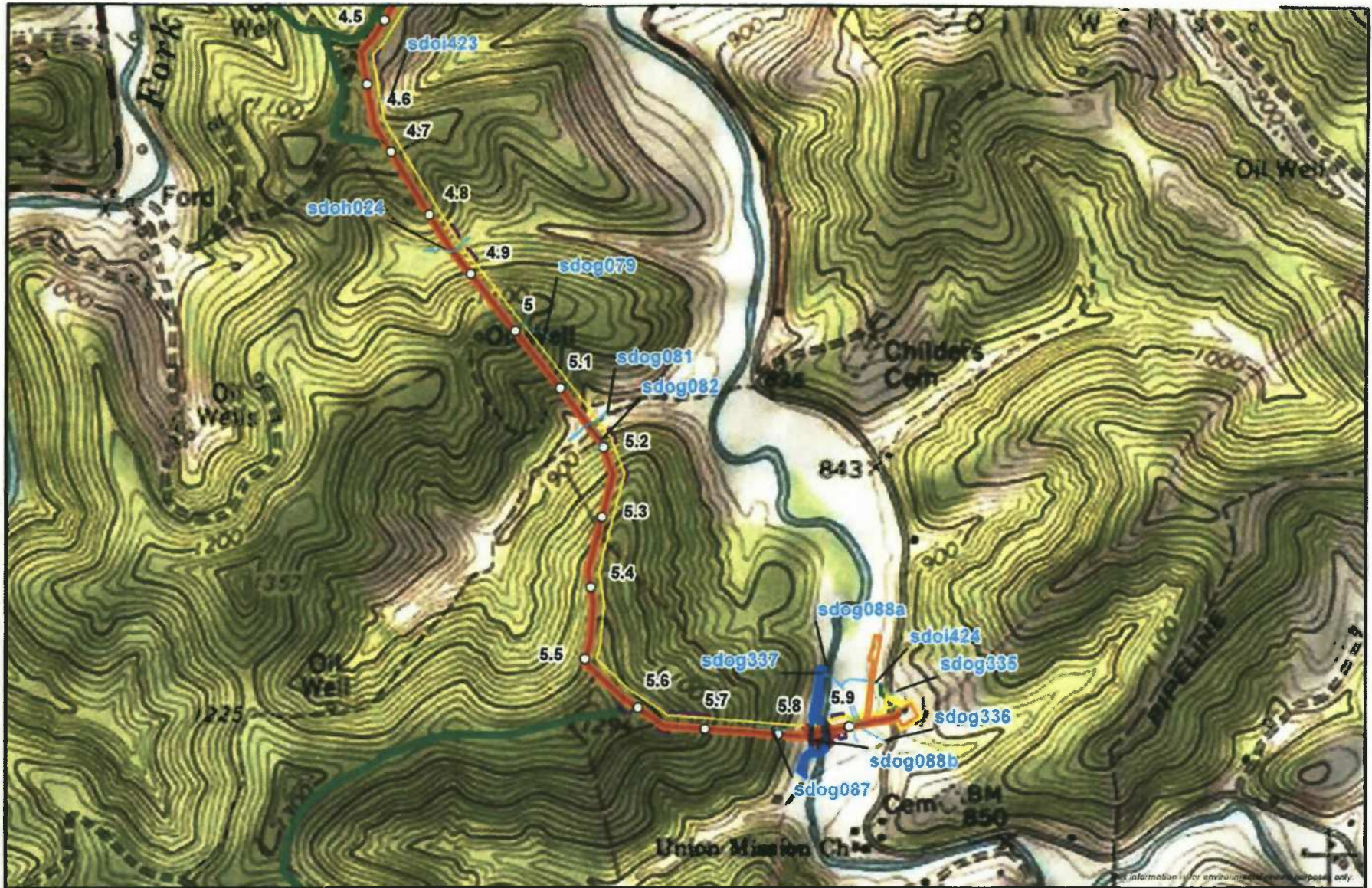


- Milepost
- Proposed Centerline
- HQ Waters
- Non-HQ Waters
- Permanent Workspace
- Temporary Workspace
- Additional Temporary Workspace
- Access Road



Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission





- Milepost
 - Proposed Centerline
 - HQ Waters
 - Non-HQ Waters
 - Permanent Workspace
 - Temporary Workspace
 - Additional Temporary Workspace
 - Access Road
- 1:12,000
0 500 1,000 Feet

Figure 4B Page 16 of 16
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

Columbia Gas Transmission
 ERM

FILED

2018 JAN 22 PM 2:46

DODDRIDGE COUNTY CLERK
DODDRIDGE COUNTY, WV

Jan. 22, 2018

Clerk of the County Court and

Doddridge County Flood Plain Manager

118 E. Court Street

West Union, WV 26456

RE: 17-500 Floodplain permit application

To whom it my concern,

I am writing in response to the legal ad hat was placed in the Doddridge Independent on Jan 12, 2018 in reference to Floodplain permit 17-500.

The ad lists 13 different sites that are covered by this permit application. I am having difficulty accepting the fact that each of these sites is identical in nature. Reading the permit application that was signed by Anthony Capp on 12-11-2017, it appears that the sites will vary in their use. Mr. Capp lists that some may be pipe yards, access roads, stream crossings, etc. Whatever these may be, the impacts on our community may be drastic. Altering and placing fill in some regions will affect how flood waters impact properties upstream and downstream of the locations listed.

I have lived in this community for well over a quarter of a century and have witnessed numerous flood events. I find it difficult to believe that Columbia/TransCanada will be able to respond in a quick enough manner should a flood event occur to minimize or prevent damages. Following is what is stated in their permit application:

Within Doddridge County, the Project will consist of the construction of the pipeline, temporary access roads, pipe yards or storage facilities, MXP 4 valve site, Sherwood Compressor station, MXP-200 tie in, MXP-5 valve site access road ARD0003. This application for a floodplain permit is for temporary impacts to the floodplains associated with the construction of the pipeline, temporary access roads, pipe yards or storage facilities and any permanent above ground facilities within the regulated FEMA floodplains or flood hazard areas. MLV-4 and ARD0003 are permanent above ground facilities within FEMA regulated floodplains proposed in Doddridge County. Any grading or fill associated with the pipeline right of way, temporary access roads, and pipe yards is anticipated to be temporary and will be restored in accordance with Columbia's ECS, environmental permit requirements, landowner agreements, or to existing conditions upon completion of construction.

For temporary construction through floodplains which require a stream crossing, during the clearing and grading phase of construction, temporary equipment crossings (bridges) will typically be installed across waterbodies to allow construction equipment and personnel to cross. The bridges may include clean rock fill over culverts, timber mats supported by flumes, railcar flatbeds, flexi-float apparatuses, or other types of spans. Temporary bridges will be constructed in accordance with Columbia's ECS to minimize the potential for sediment, grease, oil, or other pollutants to enter the waterbody. The clearing crew and related equipment, as well as equipment necessary for installation of temporary equipment crossings, will be allowed a single pass through a waterbody prior to installation of the equipment crossing unless restricted by other federal, state, or local agency requirements, to allow for the proper preparation of the bridge location. All other construction equipment will be required to use the bridges. Temporary bridges will be installed to withstand the highest flow expected to occur while the structure is in place and will be removed when construction and restoration activities are complete. Due to the anticipated duration of temporary impacts to the floodplains associated with construction of the pipeline, access roads, and yards, adverse impacts are not anticipated to the regulated floodplains.

For temporary pipe yards in floodplains, the contractor will be de-top soiling and applying gravel in order to stabilize the storage area. A top soil berm is proposed on the high side of the yard to direct runoff around the site. The contractor will place silt fence around the yard to keep debris from getting outside of the LOD's. If possible, material will be stored outside of the floodplain boundary. Material will either be removed from the yard in the event of a flood, or the contractor will tie the material down, either with a net or tying the material together with cables. When the yard is no longer needed for construction, the temporary pipe and storage yards will be restored in accordance with Columbia's ECS, environmental permit requirements, landowner agreements or to existing conditions so as not to alter or impact the floodplain under proposed conditions.

The receipt for the check accompanying the application shows Columbia Gas as the payee. Correspondence that I have received from Mr. Capps appears to have him being employed by TransCanada. His email address appears to be **Anthony Capp** <anthony_capp@transcanada.com>.

I have concerns as to whether or not Mr. Capp is an authorized agent for submitting this application. I did find info that Columbia pipeline group was bought out by TransCanada (<http://ceadvisors.com/transcanada-and-columbia-pipeline-group-agree-to-combine-forming-north-americas-largest-natural-gas-transportation-and-storage-system/>). So why is the permit application being submitted under the guise of Columbia?

I am also questioning if the permit fees would be higher if 13 different floodplain permits were applied for. It appears that a check for \$ 25,000.00 was submitted with the application. Was this check cashed?

The Ordinance states

Section 7.9 Fees

- A. Application for a Floodplain Permit for any development in Doddridge County shall be accompanied by an Application Fee, payable to the Doddridge County Commission based upon a set schedule approved by the Doddridge County Commission using the actual construction costs amount of the proposed development in the Floodplain as determined by the Floodplain Administrator.

What exactly is the set fee schedule? This projected cost of the MXP line is 2 Billion Dollars. I would think that Doddridge County would gain more revenue if individual floodplain permits were submitted for each site.

I am also confused as to why the Wirt County Floodplain manager could issue a stop work order in Doddridge County. This is what Mr. Capp Signed.

- I understand that if I do not follow exactly the site-plan submitted and approved by this permit that a "Stop Work" order may be issued by the Wirt County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

Applicant Signature



Date: 12/11/2017

Applicant Printed Name:

Anthony Capp

There is a listing of perhaps all of the permits required for this project. They are numerous. The receipt date for all required permits appears to be anticipated.

Mountaineer XPress Project Environmental Permits, Approvals, and Consultations			
Agency	Permit/Approval/Consultation	Filing Date (Anticipated)	Receipt Date (Anticipated)
Federal			

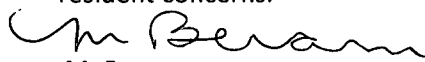
Mr. Capp signed the document and it does state that ALL "must be presented with this application before a Doddridge County Permit may be issued". I reviewed the permit application and saw no evidence of issued permits with the submitted application.

- I certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have been properly attained, are current and valid, and must be presented with this application before a Doddridge County Floodplain Permit may be issued.

I continue to question why these permits are being advertised and processed when all of the permit requirements are NOT in place.

I also ask that a public meeting be held for the community. This has the potential of a major impact on our community.

I once again request that the Doddridge County Floodplain Manager hold a public meeting to answer resident concerns.


M. Beram

Doddridge County resident

615 Riggins Run Road, West Union, WV 26456

Cc: Commissioners via email (Robinson, Travis & Glaspell)

Mountaineer Express Pipeline

Upstream and Downstream Adjacent Property Owners in Doddridge County					
OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP
11874	ADRIAN GEORGE W & BARBARA B & (SURV)	ST RT 18	WEST UNION	WV	26456
11918	Antero Resources	1615 WYNKOOP ST	DENVER	CO	80802
11873	BARTEE LILLIAN R	3972 WV RT 18 S	WEST UNION	WV	26456
11929	BIG "D" ENTERPRISES LLC	P O BOX 351	SALEM	WV	26426
11879	BLAND ROBERT C & ARLENE R & (SURV)(LIFE)	4101 WV RT 18 S	WEST UNION	WV	26456
\ 11880	BLAND ROBERT C & ARLENE R & (SURV)(LIFE)	4101 WV RT 18 S	WEST UNION	WV	26456
11893	Blandville ME Church	RT 18-BLANDVILLE	WEST UNION	WV	26456
11868	BLAZER JACK N & JOAN MAY & DICKERSON (SURV)	5938 WV RT 18	NEW MILTON	WV	26411
\ 11869	BLAZER JACK N & JOAN MAY & DICKERSON (SURV)	5938 WV RT 18	NEW MILTON	WV	26411
\ 11870	BLAZER JACK N & JOAN MAY & DICKERSON (SURV)	5938 WV RT 18	NEW MILTON	WV	26411
11915	BLESSING KATHRYN RENEE	69 BLESSING LN	WEST UNION	WV	26456
11856	BLEVINS WILLIAM H & WANDA S (SURV)	141 CHESTERWOOD LN	STAFFORD	VA	22556
11909	BONNELL ARNOLD LEE	5095 RIGGINS RUN RD	SALEM	WV	26426
\ 11910	BONNELL ARNOLD LEE	5095 RIGGINS RUN RD	SALEM	WV	26426
11896	BOWYER DAVID E	12088 MIDDLE ISLAND RD	ALMA	WV	26320
11937	Boyce, Kevin & Edna	4911 SMITHTON RD	WEST UNION	WV	26456
\ 11938	Boyce, Kevin & Edna	4911 SMITHTON RD	WEST UNION	WV	26456
11924	Brian & Dawn McMillan	2748 WYLIE RIDGE RD	WEIRTON	WV	26062
11850	BURLESON TODD A & MICHELLE L & (SURV)	RT 21 RT 23	WEST UNION	WV	26456
11944	CNG Transmission Corp	PITTSBURGH	PA	15221	26456
11876	COGAR LINDA	3640 WV RT 18	WEST UNION	WV	26456
11933	Cone Gathering LLC	1000 CONSOL ENERGY DR	CANONSBURG	PA	15317
11861	Conner, Clarence & Dawn	61 BEAGLE DR	WEST UNION	WV	26456
11866	Cox, Denver & Mary Beth	NEW MILTON R 18	SMITHBURG	WV	26436
11926	DAVIS DEANNA & WILLIAM (SURV)	5891 BIG FLINT RD	WEST UNION	WV	26456
11925	Davis, Jason	PO BOX 249	WEST UNION	WV	26456
\ 11922	Dawn & Brian McMillan	2748 WYLIE RIDGE RD	WEIRTON	WV	26062
11891	Denise W. Davis	181 DAVIS FARM LN	NEW MILTON	WV	26411
11886	Dennis & Glenda Kelley	2633 ELDERSVILLE RD	FOLLANSBEE	WV	26037
\ 11884	Dennis and Glenda Kelley	2633 ELDERSVILLE RD	FOLLANSBEE	WV	26037
\ 11894	DODDRIDGE CO COURT	108 Court St. #4	WEST UNION	WV	26456
11905	DOTSON FREDERICK GREGORY, & CHARLES A & MICHELLE E	SMITHBURG OFF ROUTE 50 16	WEST UNION	WV	26456
11921	DUFFELMEYER WILLIAM M & MELISSA J (SURV)	125 RIGGINS RN	WEST UNION	WV	26456

Upstream and Downstream Adjacent Property Owners in Doddridge County					
OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP
11864	E. S. Childers (Heirs)	3335 CASANEA CT	HUNTINGTOWN	MD	20639
11945	FETTY CHARLES A	5242 ROCK RUN RD	WEST UNION	WV	26456
11930	FOUT NANCY LLC	ENGLANDS RUN	WEST UNION	WV	26456
11881	GAGNON GEORGE L	ROUTE 18	WEST UNION	WV	26456
11858	GAIN DONZIL A & MARY T (SURV)	9 Coolview Ln.	BRIDGEPORT	WV	26330
11940	George R. Gore	5116 SMITHTON RD	WEST UNION	WV	26456
11947	Gerald Brunner	163 Cable Rd.	Weirton	WV	26062
11908	GETZ DAVID C & TWYLLA J & (SURV)	13147 WV RT 23N	WEST UNION	WV	26456
11916	GETZ DAVID C & TWYLLA J & (SURV)	13147 WV RT 23N	WEST UNION	WV	26456
11913	GLASPELL MARY LEE	14723 WV ROUTE 23	WEST UNION	WV	26456
11855	GRIFFITH WILLIAM & RONALD & (SURV)	366 CHICKEN FARM RD	CLARKSBURG	WV	26301
11860	Heaster, Charles & Patsy	2898 PUNKIN CENTER RD	WEST UNION	WV	26456
11919	HEINTZELMAN EVELYN & RONALD E & SR & JUDITH L COLL	ROUTE 3	CENTER POINT	WV	26339
11920	HEINTZELMAN EVELYN & RONALD E & SR & JUDITH L COLL	ROUTE 3	CENTER POINT	WV	26339
11851	HENDERSON JUSTIN L (LIFE)	190 SAPPHIRE LN	MEADOWBROOK	WV	26404
11895	HYDE WILLIAM J & RITA I & (SURV)	1273 SNOWBIRD RD	WEST UNION	WV	26456
11888	James A. and Angela J. Bland	4061 WV RT 18 S	WEST UNION	WV	26456
11935	Jamie & Ronald Hass	4061 WV RT 18	WEST UNION	WV	26456
11948	John McMillan	4131 WADSWORTH RD	NORTON	OH	44203
11939	JONES CHARLES EDWARD	RT 50/22	WEST UNION	WV	26456
11890	K. Todd and Kimberly Bland Revocable Trust	RT 18-BLANDVILLE	WEST UNION	WV	26456
11867	Keplinger, Dale W. II & Melissa	82 TRIPLE J RD	GASSAWAY	WV	26624
11859	Lahreche, Tanya		WEST UNION	WV	26456
11897	LAMB VALERIE A	ROUTE 18	WEST UNION	WV	26456
11934	LEATHERMAN DONNA	627 MORGANS RUN RD	WEST UNION	WV	26456
11906	MCCLAIN JOHN H	ST RT 23-ASHLEY	CENTER POINT	WV	26339
11932	MCKINNEY KAREN IRENE SUE	1352 MILETUS RD	SALEM	WV	26426
11946	MCMILLAN GARY L & JEFFREY LYNN & (SURV)	20 FELIX DR	WEST UNION	WV	26456
11904	MORRIS I L (IKE)	ST RT 18	WEST UNION	WV	26456
11863	Nestor, Laura L.	ROUTE 25	NEW MILTON	WV	26411
11853	NICHOLSON ARGIL WAINE	126 PUMPKIN LN	WEST UNION	WV	26456
11898	NICHOLSON ROGER & NORA ANN & (SURV)	1513 SNOWBIRD RD	WEST UNION	WV	26456
11883	Norma & Dale Kelley	4201 WV ROUTE 18	WEST UNION	WV	26456

Upstream and Downstream Adjacent Property Owners in Doddridge County					
OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP
11885	Norma Lee Kelley	4201 WV ROUTE 18	WEST UNION	WV	26456
11849	PARSONS RICHARD P & CHERYL A & (SURV)	ROUTE 23	WEST UNION	WV	26456
11875	POLAN WILMA C	BLANDVILLE RT 18	WEST UNION	WV	26456
11901	PRICE PATRICK L & PENNY L & (SURV)	1543 SNOWBIRD RD	WEST UNION	WV	26456
11902	PRICE PATRICK L & PENNY L & (SURV)	1543 SNOWBIRD RD	WEST UNION	WV	26456
11872	ROLLINS CANDI E ET VIR	ROUTE 18	WEST UNION	WV	26456
11923	Scotty & Martha Ruble	ROUTE 3	SMITHBURG	WV	26436
11942	Secrist, Mary Farr	1884 PUNKIN CENTER RD	WEST UNION	WV	26456
11931	SPURLOCK HOWARD D II & AMY B & (SURV)	192 PIGGIN RUN RD	WEST UNION	WV	26456
11877	Stover, Anderson	ST RT 18	WEST UNION	WV	26456
11914	STUMPF THEODORE J	4805 RAGANS RN	WEST UNION	WV	26456
11900	SUTTON JEREMY W & AMANDA L & (SURV)	PO BOX 57	SMITHBURG	WV	26436
11912	SWIGER LARRY D	ST RT 23	CENTER POINT	WV	26339
11911	SWIGER MICHAEL W & JODI A & (SURV)	5577 RIGGINS RN	WEST UNION	WV	26456
11936	Swisher, Jeffrey	379 DAKOTA LN	WEST UNION	WV	26456
11887	Tim Bland	WV RT 18	WEST UNION	WV	26456
11892	Tim Bland	BLANDVILLE RT 18	WEST UNION	WV	26456
11857	TIMBERLAND TRUST		WEST UNION	WV	26456
11878	TRAVIS MARVIN E & ROBIN E & (SURV)	67 EIBS CAMP RD	NEW MILTON	WV	26411
11889	TRAVIS MARVIN E & ROBIN E & (SURV)	67 EIBS CAMP RD	NEW MILTON	WV	26411
11871	TRAVIS MICHAEL D	5689 WV RT 18 S	WEST UNION	WV	26456
11865	Trent, William	2500 WESTFIELD	ELGIN	IL	60123
11907	TRUSTEES OF GRACE BAPTIST & CHURCH	ST RT 23 ASHLEY	CENTER POINT	WV	26339
11882	UNITED METHODIST CHURCH TRUSTE	ST RT 18-BLANDVILLE	WEST UNION	WV	26456
11854	WAGNER JEFFERY S & RICHARD L & (SURV)	107 TAYLOR SCHOOL RD	BRIDGEPORT	WV	26330
11862	Wellings, Charles & Barbara	1232 WV RT 18	WEST UNION	WV	26456
11899	WELLS ANTHONY J & ROBIN A & (SURV)	9235SE 178TH MADELINE LN	THE VILLAGES	FL	32162
11852	WERNER EDWARD C & FERN F & (SURV)	1 FIRST AMERICAN WAY	WESTLAKE	TX	76262
11943	West, Linda	1602 DOTTERER'S RUN	CHARLESTON	SC	29414
11903	WILLIS MARY MADELYN	ROUTE 18	WEST UNION	WV	26456
11941	WV Railroad Maintenance Authority		MOOREFIELD	WV	26836
11927	Yerkey, Barbara	5891 BIG FLINT RD	WEST UNION	WV	26456
11928	Yerkey, Ronald	37 MCMULLAN FARM RD	WEST UNION	WV	26456

Upstream and Downstream Adjacent Property Owners in Doddridge County				
OBJECTID *	OWNER	ADDR	CITY	STATE ZIP
11917	ZACK DONALD E JR	ST RT 23	CENTER POINT	WV 26339

Description of Work Narrative

Project Mapping

**Mountaineer XPress Project
Environmental Permits, Approvals, and Consultations**

Agency	Permit/Approval/Consultation	Filing Date (Anticipated)	Receipt Date (Anticipated)
Federal			
Federal Energy Regulatory Commission	Certificate of Public Convenience and Necessity under Section 7(c) of the Natural Gas Act	April 29, 2016	December 29, 2017
U.S. Army Corps of Engineers – Pittsburgh, Huntington Districts	Department of the Army Permits under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act (Joint Permit Application)	July 8, 2016	February 6, 2018
U.S. Fish and Wildlife Service – West Virginia Ecological Field Services Office	Consultation under Section 7 of the Endangered Species Act	July 2015 ^a	Technical Guidance Received December 7, 2017 ^b
State: West Virginia			
West Virginia Department of Environmental Protection- Division of Air Quality	Air Permit – Title V Permit	April 29, 2016	December 12, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Water Quality Certificate under Section 401 of the Clean Water Act	July 21, 2016	July 26, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	West Virginia Water Pollution Control Permit – Stormwater Associated with Oil and Gas Related Construction Activities – WV0116815	April 27, 2017	January 31, 2018
West Virginia Department of Environmental Protection – Division of Water and Waste Management	National Pollutant Discharge Elimination System – Water Pollution Control Permit for Hydrostatic Testing Water – WV0113069	January 16, 2018	February 9, 2018
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Large Quantity Water Use Registration ^c	NA	NA
West Virginia Division of Culture and History	Consultation under Section 106 of the National Historic Preservation Act	July 2015	December 15, 2017
West Virginia Division of Natural Resources – Natural Heritage Program	Natural Heritage/Protected Species Consultation	July 2015	Consultation does not result in a permit. The information from the WVDNR contains privileged species information and will not be provided to the County. December 2017 and January 2018 (culvert, timber mat, and some pipeline crossings)
West Virginia Division of Natural Resources – Office of Land and Streams	Stream Activity Permit (Joint Application with the Public Lands Corporation)	October 2017	(February 2018) Pending crossings.
^a To comply with the provisions of the Endangered Species Act, Columbia has evaluated and certified that the Project activities are consistent with the U.S. Fish and Wildlife Service approved NiSource/Columbia Multi-Species Habitat Conservation Plan and the resulting programmatic Section 7 consultation. ^b Although the USFWS provided concurrence with the use of the MSHCP in covered lands, and provided technical guidance that a finding of "No Effect" or "Not Likely to Adversely Affect" for protected species outside of MSHCP-covered lands would be supported if Columbia's proposed Mussel Alternative Routes are adopted by FERC. ESA closure is predicated on Columbia receiving FERC authorization of certain reroutes; which have been requested by Columbia but not yet been adopted by FERC. ^c Registration is required the year following the water appropriation; and no consultation is required prior to appropriating water.			



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, West Virginia 25304-2345
Phone: 304-926-0495
Fax: 304-926-0496

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

February 09, 2018

JAMES AMOS
COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE
CHARLESTON, WV 25314

CERTIFIED RETURN RECEIPT REQUESTED

Re: WV/NPDES Permit No. WV0113069
General Permit Registration No. WVG670737
Mountaineer XPress Project, Marshall County

Dear Permittee:

Enclosed, please find a copy of your completed registration form for your pipeline project with the above assigned registration number. You are now authorized to discharge under General Permit No. WV0113069, reissued on January 20, 2012. This registration form should be kept with your copy of the General Permit. A copy of General WV/NPDES Water Pollution Control Permit No. WV0113069 is enclosed. You should carefully read the contents of the permit and become familiar with all the requirements needed to remain in compliance.

Although you should be aware of all the terms and conditions of this permit, we wish to advise you of the following important requirements:

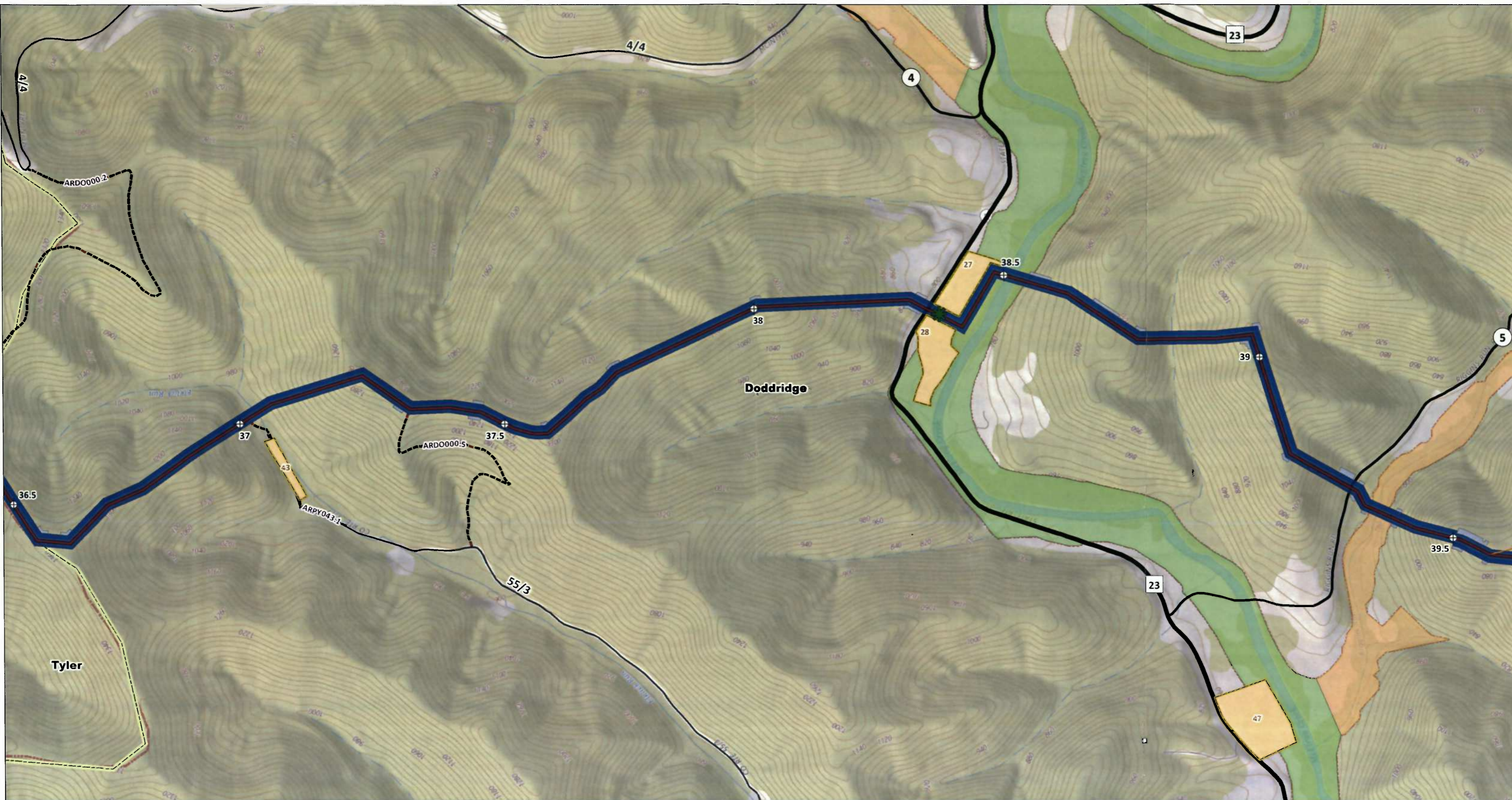
The agency encourages the permittee to utilize our electronic discharge monitoring report (eDMR) system. If the permittee uses the eDMR system, the permittee is not required to submit hard copies of the DMRs to the address on page 1 of this letter. However, if the permittee elects to not use the eDMR system, then the permittee is required to mail in hard copies. The permittee may contact Mavis Layton at (304) 926-0499 Ext. 1025 or Mavis.L.Layton@wv.gov for more information about the eDMR system or visit our website at <https://apps.dep.wv.gov/eplogin.cfm> and review our eDMR info section. Please be advised that these records must be readily available at the site for inspection by DEP personnel either in electronic or hard copy.

JAMES AMOS
Page 2
February 09, 2018

Please be advised that the general permit has been administratively extended until June 30, 2017.

If you have any questions, please contact John Perkins, Supervisor of this Division, at (304) 926-0499 extension 1031, or by email at John.M.Perkins@wv.gov.

Scott G. Mandirola
Director
WV DEP-Division of Water & Waste Mgt.
601 57th St SE
Charleston, WV 25304-2345
Phone: (304) 926-0495
Fax: (304) 926-0463



MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

- Access Roads
- Pipeline Centerline
- Pipeline Variance
- Proposed Yards

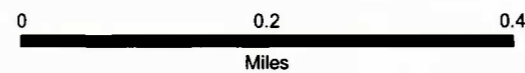
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 14 of 64



Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

⊕ Mile Post

- Access Roads
- Pipeline Centerline
- Pipeline Variance
- Proposed Yards

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

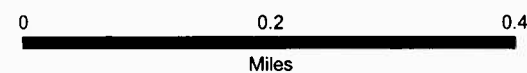
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 15 of 64



Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

- Access Roads
- Pipeline Centerline
- Pipeline Variance
- Proposed Yards

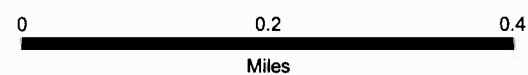
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 16 of 64**



Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

- Access Roads
- Pipeline Centerline
- Pipeline Variance
- Proposed Yards

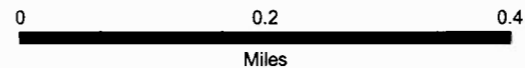
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

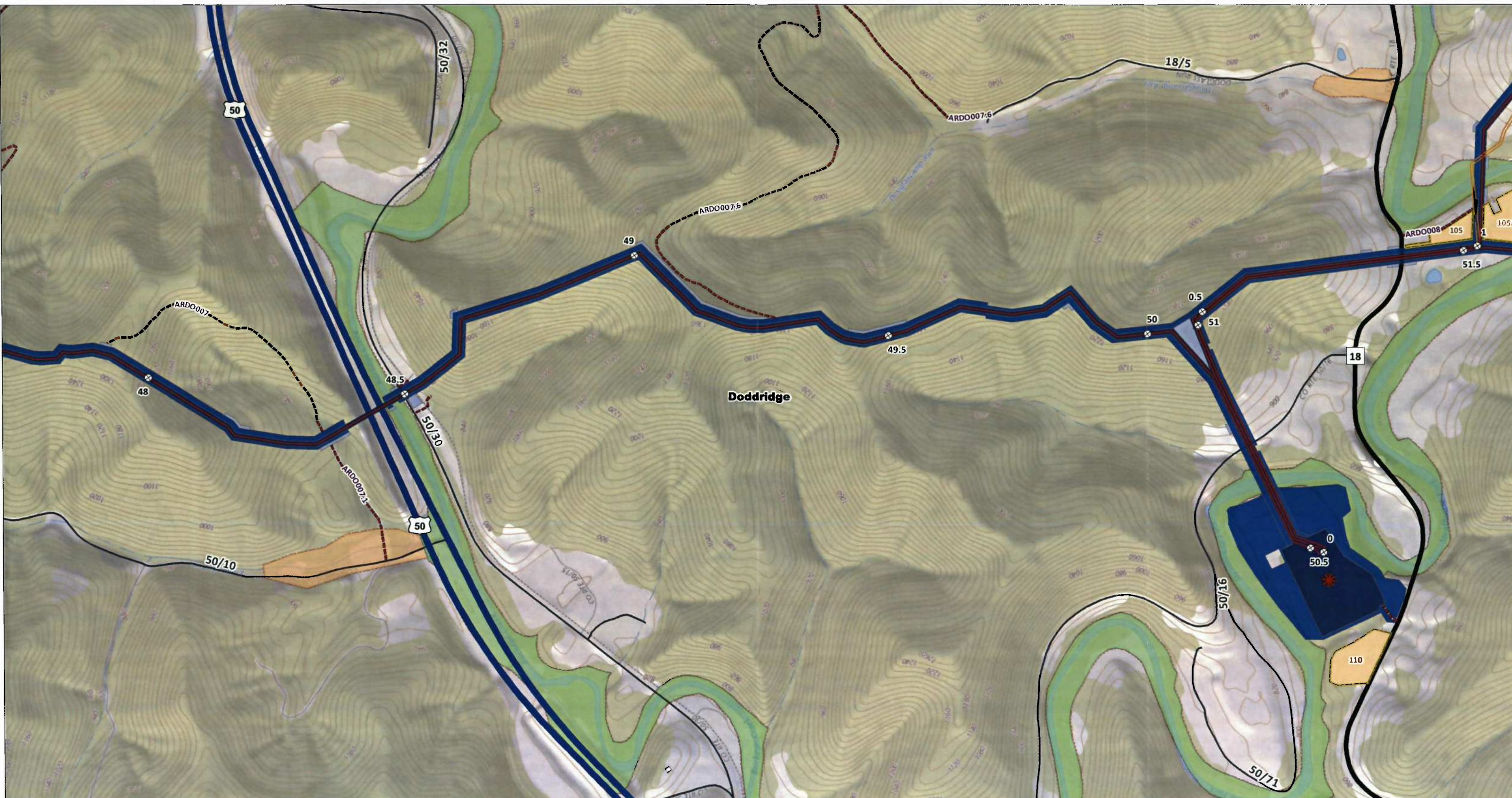
- Compressor Station
- Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 17 of 64



Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

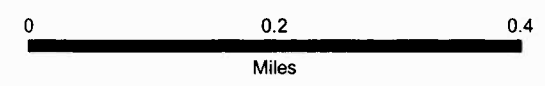
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 18 of 64**



Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

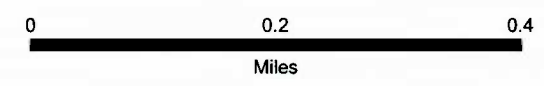
ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

West Virginia Roads

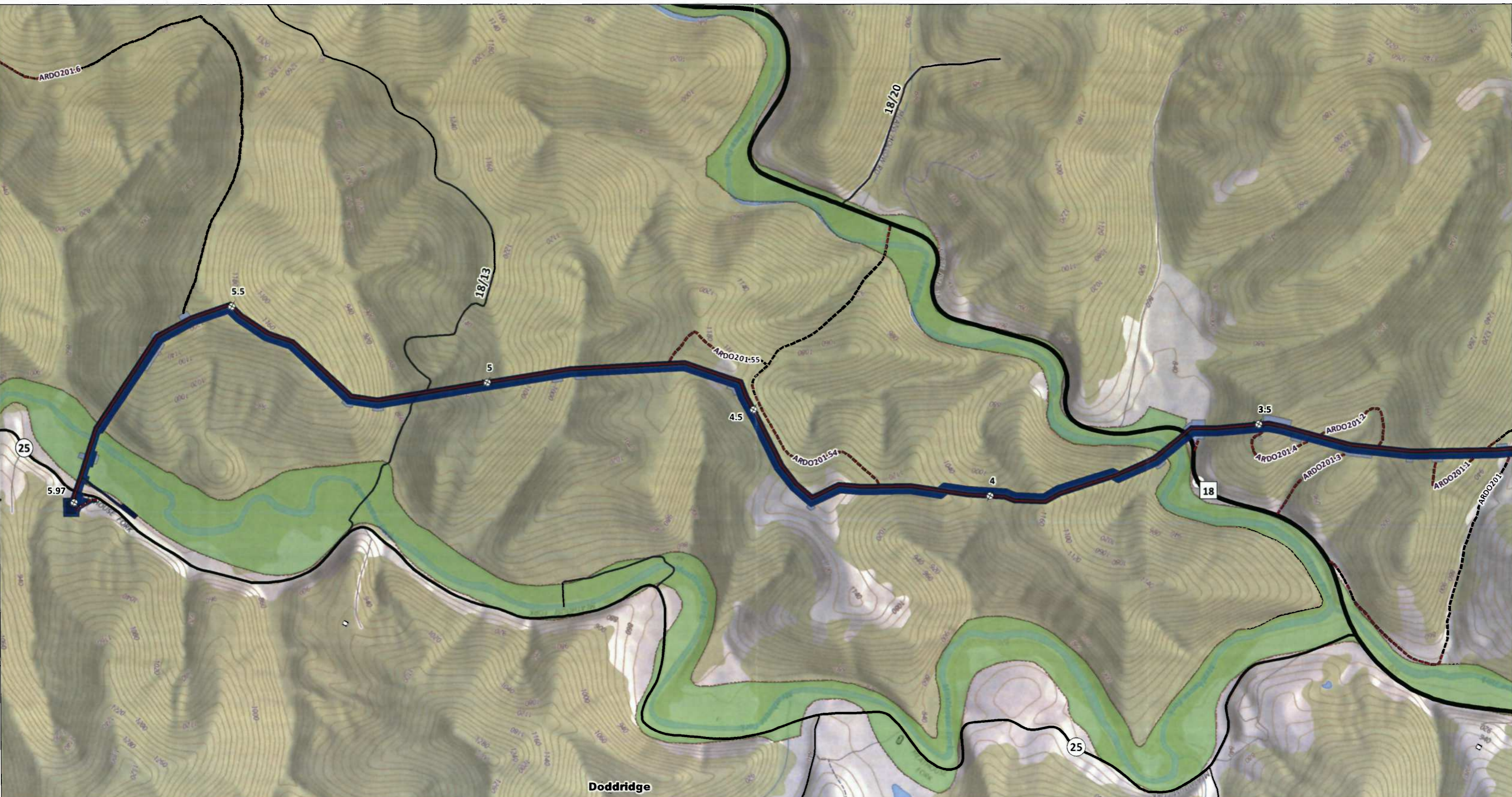
- Interstate
 - US
 - WV
 - CR
 - CR Subroute
- Pipeline Facilities**
- Compressor Station
 - Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 19 of 64



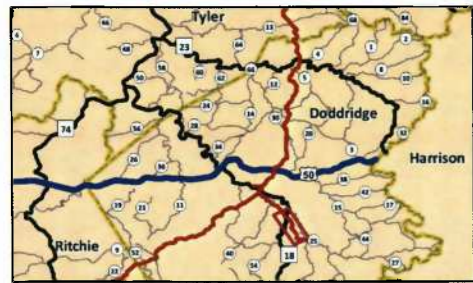
Date: 11/5/2017





Doddridge

MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

Mile Post

- Access Roads
- Pipeline Centerline
- Pipeline Variance
- Proposed Yards

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

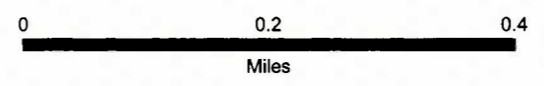
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

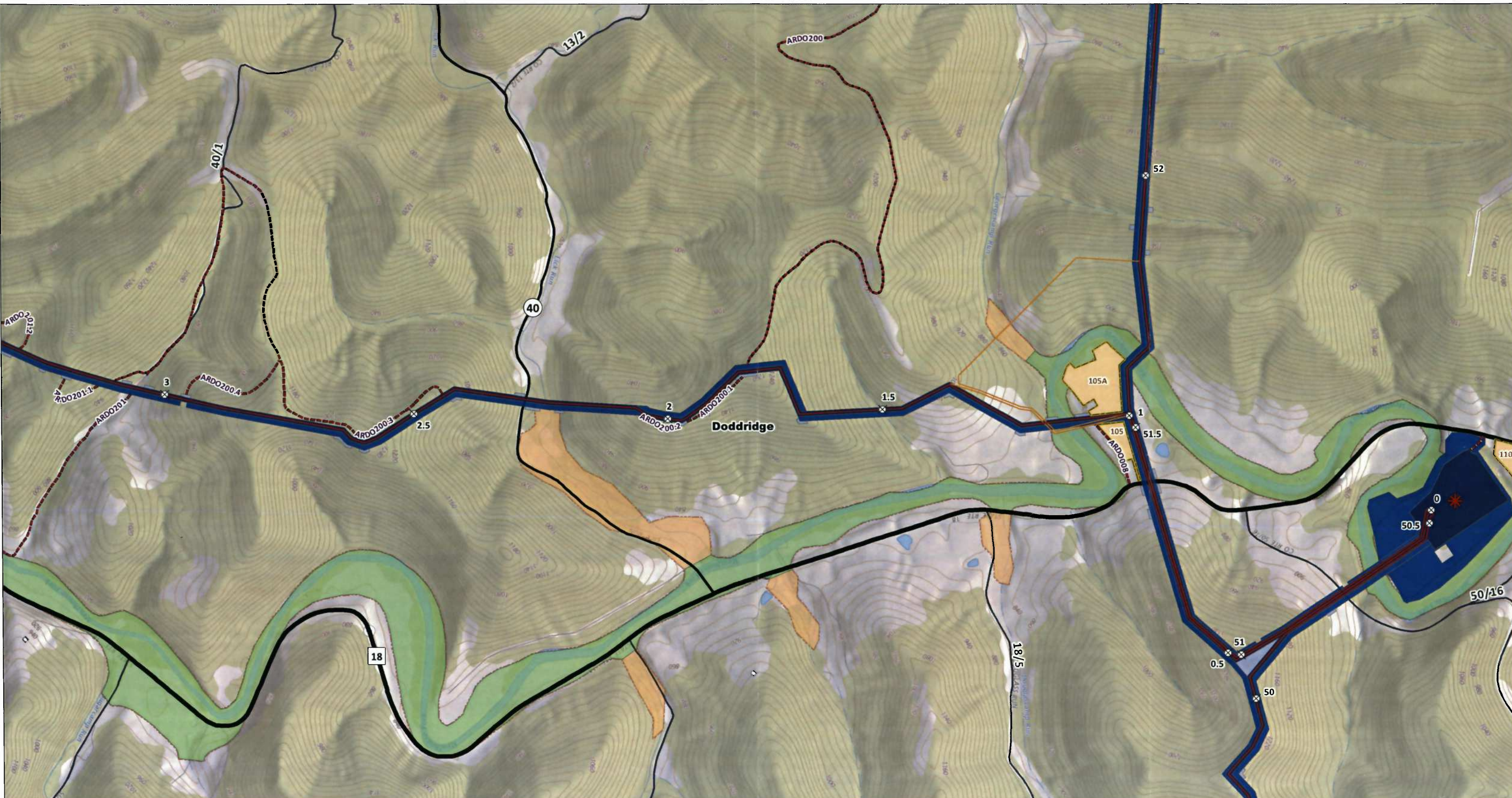
- Compressor Station
- Valve Site

**SHERWOOD LATERAL PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 62 of 64

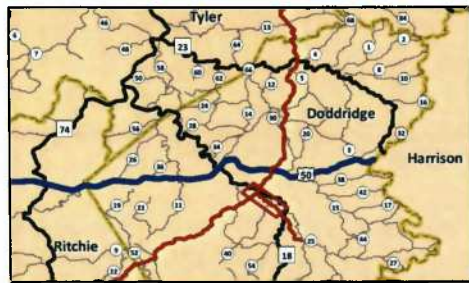


Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

Mile Post

- Access Roads
- Pipeline Centerline
- Pipeline Variance
- Proposed Yards

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

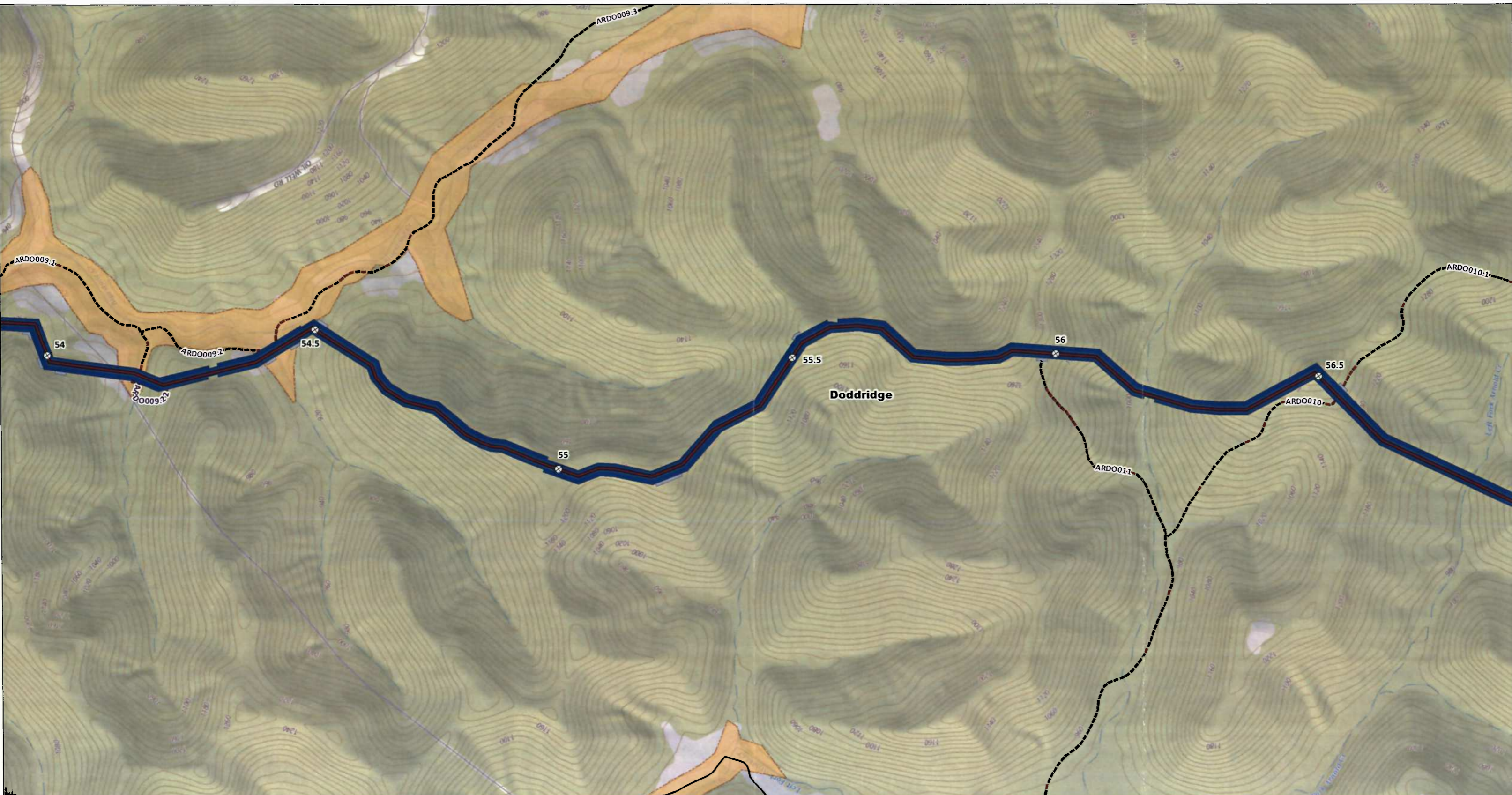
- Compressor Station
- Valve Site

**SHERWOOD LATERAL PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 63 of 64**



Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

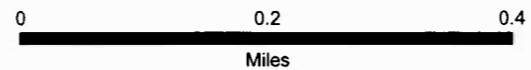
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 20 of 64



Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

Mile Post

- Access Roads
- Pipeline Centerline
- Pipeline Variance
- Proposed Yards

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

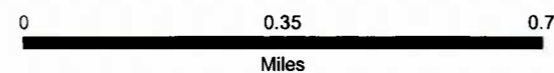
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 21 of 64**

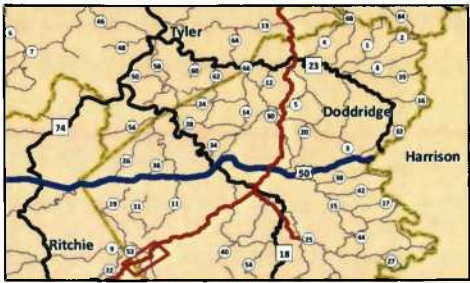


Date: 11/5/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

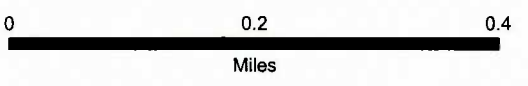
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTAINEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 22 of 64**



Date: 11/5/2017

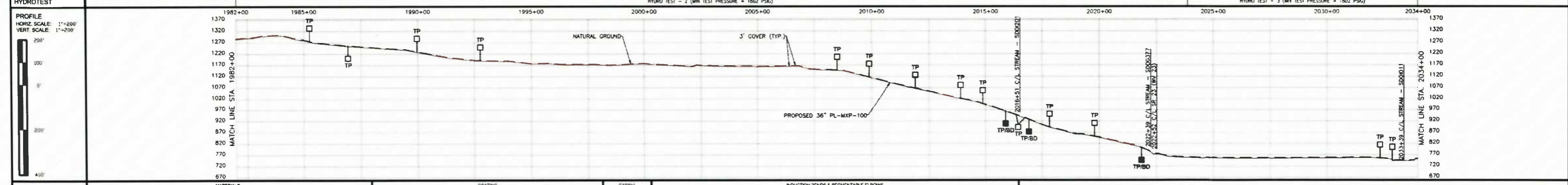


STATIONING	1982+00 MATCH LINE 1982+51 P.L. < S. 200207 L.I. 199+66 FENCE, 1' BARB WIRE 199+86 P.L. < S. 200207 L.I. 1984+13 P.L. < S. 200207 L.I. 1984+88 JAY BEE OIL AND GAS INC. PIPELINE 1986+17 P.L. < S. 200207 L.I. 1988+88 P.L. < S. 200207 L.I. 1990+48 P.L. < S. 200207 L.I. 1992+58 P.L. < S. 200207 L.I. 1994+34 PROPERTY LINE 1995+76 FENCE, 1' BARB WIRE 1997+69 FENCE, 1' BARB WIRE 2002+89 FENCE, 2' HOG AND BARB WIRE 2006+83 P.L. < S. 200207 L.I. 2016+45 EDGE OF STREAM - S00201 2016+57 EDGE OF STREAM - S00201 2020+97 OVERHEAD POWERLINE 2021+35 EQUIPMENT BLANKET 2021+35 EQUIPMENT BLANKET 2022+38 EDGE OF STREAM - S00377 2022+48 PROPERTY LINE 2022+48 PROPERTY LINE 2022+52 C/L SR 23 (WV 23) (RW 23) (RW 23) 2022+52 FENCE, 3' HOG WIRE CABLE 2022+52 OVERHEAD POWERLINE 2023+48 MLV #4 2023+48 MLV #4 2023+93 BROAD BASE DIP 2023+93 BROAD BASE DIP 2024+09 BEGUN WETLAND - W000315E 2024+13 P.L. < S. 200207 L.I. 2027+64 OVERHEAD POWERLINE 2031+51 END WETLAND - W000315E 2031+57 P.L. < S. 200207 L.I. 2032+91 EDGE OF STREAM - S00011 2032+97 EDGE OF STREAM - S00011 2034+00 MATCH LINE
ENVIRONMENTAL	STREAM S00201 (EPHEMERAL) 2016+45, 2016+57 STREAM S00377 (EPHEMERAL) 2022+38, 2022+48 WETLAND W000315E (PEM) 2031+51, 2031+57 WETLAND S00011 (PERENNIAL) 2032+91, 2032+97 STREAM S00011 (PERENNIAL) 2034+00
DEPTH OF COVER	5' 5' 5' 5' 5'

NOTES:
 1. STATIONS FOR EROSION CONTROL DEVICES ARE APPROXIMATE. DEVICES WILL BE FIELD VERIFIED AND PLACED UNDER THE OVERSIGHT OF THE ENVIRONMENTAL INSPECTOR.
 2. ENVIRONMENTAL DATA PROVIDED BY OTHERS ACTUAL LOCATIONS TO BE FIELD VERIFIED.
 3. CONTOURS DERIVED FROM USGS, UNITED STATES ELEVATION DATA (NEE) (10M RESOLUTION).
 4. PROFILE ELEVATIONS ARE BASED ON FIELD SURVEY PHOTOGRAPHY, 6/27/2015.
 5. COORDINATE SYSTEM: WEST VA STATE PLANE SOUTH, NAD83, US SURVEY FEET



MATERIAL	3010' 100' 100' 100' 100' 100' 100' 100' 100'
SOIL TYPE	GaE GaF Co Ka W GaF
CLASS LOCATION FOR CONST. PURPOSES	CLASS 1
DESIGN FACTOR	0.72 0.5 0.72 0.5
HYDROTEST	HYDRO TEST - 2 (MIN TEST PRESSURE = 1802 PSIG) 0.72 HYDRO TEST - 3 (MIN TEST PRESSURE = 1802 PSIG) 0.72



MATERIALS					CASING		INDUCTION BENDS & SEGMENTABLE ELBOWS										
ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	TEA	DIAMETER	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	QUANTITY	REVISION
1		36"	0.515"	X70	3010'												
2		36"	0.618"	X70	2060'												
3		36"	0.750"	X70	80'												
4		36"															
5		36"															
6		36"															

ACCESS ROAD BROAD-BASE DIP LEGEND* (SEE NOTE 5)
 PERCENT SLOPE
 0-2% 300 FEET
 2-5% 150 FEET
 5-8% 75 FEET
 >15% 75 FEET
 NO BROAD-BASE DIPS REQUIRED

ADDITIONAL NOTES:
 A. DISTICHING SHALL BE INSTALLED ON THE UPRAMP SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPDRAINAGE FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAIN. DISTICHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 48 AND 53. EXTENT AND LOCATION OF DISTICHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
 B. IF EXISTING ACCESS PONDS REQUIRE CONSTRUCTION ACTIVITIES, THEIR EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

NOTES:
 1. PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30.31, 32, AND 33 ON DRAWING D6987-TYP-004
 2. INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004
 3. WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004
 4. HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004
 5. BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007
 6. ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE

LEGEND:
 - - - COUNTY BORDER
 - - - PROPERTY LINE
 - - - ACCESS ROAD
 - - - WATERLINE
 - - - WATERBODY
 - - - FENCE
 - - - UNDERGROUND CABLE
 - - - OVERHEAD POWERLINE
 - - - WATERBAR
 - - - LIMITS OF DISTURBANCE
 - - - SALT FENCE
 - - - SUFER REINFORCED SALT FENCE
 - - - SOIL BOUNDARY
 - - - WATERBAR
 - - - MATS
 - - - EROSION CONTROL BLANKET OR HYDROMULCH
 - - - EQUIPMENT BRIDGE
 - - - TRENCH PLUG (PLAN)
 - - - TRENCH PLUG (PROFILE)
 - - - TRENCH PLUG W/BLEEDER DRAIN (PROFILE)

SCALE: 1" = 200'
 0' 100' 200' 300' 400'

ISSUED FOR WV DEP REVIEW
 ARL 04/07/17

PROJECT DELIVERY PROJECT ENGINEERING
Columbia Gas Transmission
 MOUNTAINEER XPRESS PROJECT
 PROPOSED 36" PL-MXP-100 PIPELINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

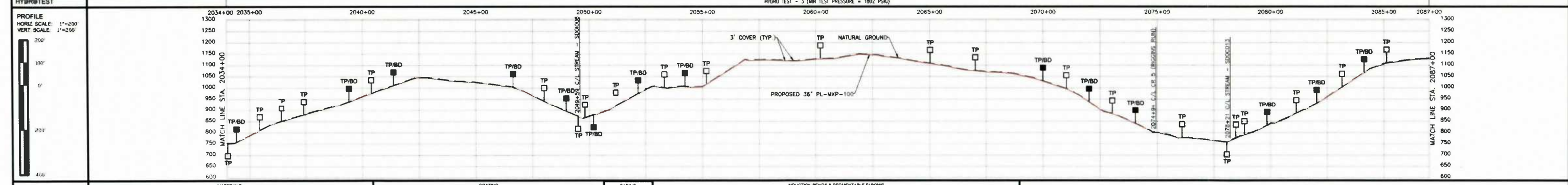
Drawn By: J. Lamb	HW: 20432	Date: 03/03/16	Drawing Number: D6987-ESC-044	Issue: P6
Checked By: J. Lamb	HW: 46130	Date:		

ISSUED FOR WV DEP REVIEW
 04/07/17

ISSUE	RAWLN. NUMBER	OWNERSHIP	2034+00	2044+00	2054+00	2064+00	2074+00	2084+00	2094+00	2104+00
	D6987-ESC-045		1329 FEET	250 FEET	3524 FEET			197 FEET		
STATIONING			2034+00 MATCH LINE	2044+81 C/L ROAD	2044+81 C/L ROAD	2044+81 C/L ROAD	2044+81 C/L ROAD	2044+81 C/L ROAD	2044+81 C/L ROAD	2044+81 C/L ROAD
ENVIRONMENTAL						STREAM S00008 (INTERMITTENT)			STREAM S00013 (INTERMITTENT)	
DEPTH OF COVER				3'		5'		3'	5'	3'



MATERIAL	630' (2)	630' (1)	CR SEC	570' (2)	60' SEC	1830' (1)	CR SEC	630' (2)	630' (1)	CR SEC	36'	
SOIL TYPE	GdF	GdE	GdF	GdC	GdF	GdE	GdC	GdE	GdF	GdE	GdF	
CLASS LOCATION FOR CONST. PURPOSES	CLASS 1											
DESIGN FACTOR	0.72										0.5	0.72
HYDR@TEST	HYDR@TEST - 3 (MIN TEST PRESSURE = 1802 PSIG)											



ITEM NUMBER	SERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	CASING		INDUCTION BENDS & SEGMENTABLE ELBOWS									
						DESCRIPTION	ITEM NUMBER	SERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	BEVEL		
1		36"	0.515"	470	2840'												
2		36"	0.618"	470	2380'												
3		36"	0.721"	470	80'												
3R SEC		36"			4 EA												
6D SEC		36"			1 EA												

NOTES:

- PERMANENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
- BROAD BASED DPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND:

- MILEPOST MXP-100
- MILEPOST SHERWOOD LATERAL MXP-200
- COUNTY BORDER
- PROPERTY LINE
- ACCESS ROAD
- WETLAND
- WATERLINE
- WATERBODY
- PROPERTY TRACT NUMBER
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- WATERBAR
- LIMITS OF DISTURBANCE
- SILT FENCE
- SUPER REINFORCED SILT FENCE
- SOL BOUNDARY
- WATERBAR
- MATS
- EROSION CONTROL BLANKET OR HYDROMULCH
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/BLEEDER DRAIN (PROFILE)

SCALE: 1" = 200'

ISSUED FOR WV DEP REVIEW (Date: 04/07/17)

PROJECT DELIVERY PROJECT ENGINEERING

Columbia Gas Transmission

MOUNTAINEER XPRESS PROJECT

PROPOSED 36" PL-MXP-100 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA

NO.	REVISIONS	APPROVED BY	DATE	NO.	REVISIONS	APPROVED BY	DATE	NO.	REVISIONS	APPROVED BY	DATE

ISSUED FOR WV DEP REVIEW	APL	04/07/17	OWG. NO.	REFERENCE

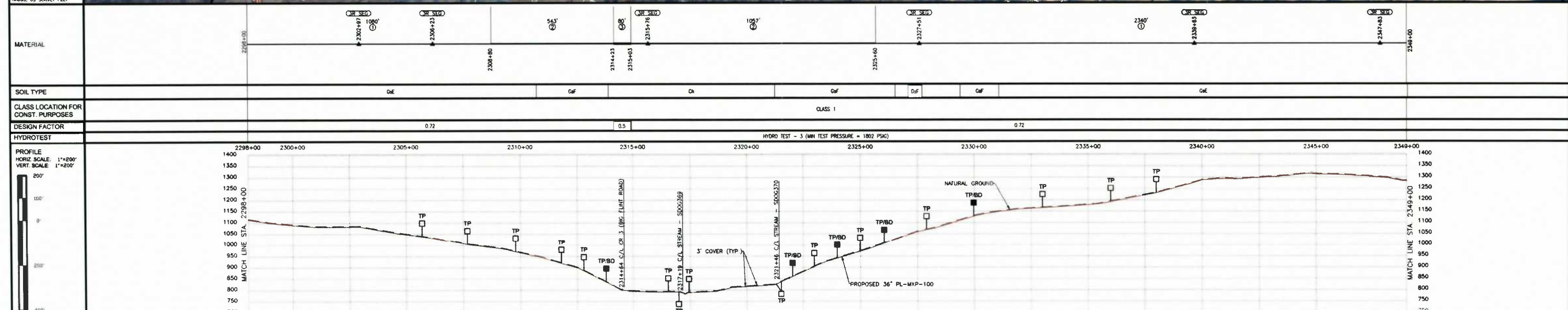
PROJECT ENGINEER	DATE	DRAWING NUMBER	ISSUE
	03/03/16	D6987-ESC-045	P6

150-051	OWNERSHIP	2298+00	WV-DO-0158.000	790 FEET	2305+90	WV-DO-0158.000	689 FEET	2312+79	WV-DO-0157.000	843 FEET	2321+22	WV-DO-0158.000	1833 FEET	2339+55	WV-DO-0159.000	887 FEET	2348+42	WV-DO-0160.000	58 FEET	2349+00
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STATIONING	2298+00 MATCH LINE	2305+90	2312+79	2321+22	2339+55	2348+42	2349+00
ENVIRONMENTAL			STREAM SDOG369 (PERENNIAL)	STREAM SDOG370 (EPHEMERAL)			
DEPTH OF COVER			5'	5'	5'		

PLAN																			
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES	<p>1. STATIONS FOR EROSION CONTROL DEVICES ARE APPROXIMATE. DEVICES WILL BE FIELD VERIFIED AND PLACED UNDER THE OVERSIGHT OF THE ENVIRONMENTAL INSPECTOR.</p> <p>2. ENVIRONMENTAL DATA PROVIDED BY OTHERS. ACTUAL LOCATIONS TO BE FIELD VERIFIED.</p> <p>3. CONTOURS DERIVED FROM USGS, UNITED STATES ELEVATION DATA (NEED) (LOW RESOLUTION).</p> <p>4. PROFILE ELEVATIONS ARE BASED ON FIELD SURVEY PHOTOGRAPHY BY PHOTOSCENIC FLOWN MAY-NOV 2015.</p> <p>5. COORDINATE SYSTEM: WEST VA STATE PLANE SOUTH, NAD83, US SURVEY FEET.</p>																		
MATERIAL	2298+00	2302+97	2306+23	2308+80	2314+23	2315+03	2315+77	2325+40	2327+57	2330+00	2335+00	2340+00	2347+83	2349+00					
SOIL TYPE	Gf, Gf, Ch, Gf, Gf, Gf, Gf																		
CLASS LOCATION FOR CONST. PURPOSES	CLASS 1																		
DESIGN FACTOR	0.72, 0.5, 0.72																		
HYDROTEST	HYDRO TEST - 3 (MIN TEST PRESSURE = 1802 PSIG)																		



MATERIALS				COATING				CASING				INDUCTION BENDS & SEGMENTABLE FLOWS					
ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	TV	DIAMETER	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	YE-CL
1		36	0.315	X70	3420												
2		36	0.618	X70	1800												
3		36	0.750	X70	80												
3P SEC		36			6 EA												

NOTES

- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004
- BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR EQUIPMENT CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND

- PERENNIAL STREAM CROSSING
- INTERMITTENT STREAM CROSSING
- WETLAND CROSSING
- HYDROMULCH
- BROAD BASED DIPS
- ADDITIONAL WETLAND MATTING
- PROPERTY LINE
- ACCESS ROAD
- EXISTING COLUMBIA PIPELINE
- FOREIGN PIPELINE
- COUNTY BORDER
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- WATERBODY
- WATERBAR
- LIMITS OF DISTURBANCE
- SALT FENCE
- SUPER REINFORCED SALT FENCE
- SOIL BOUNDARY
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/BLEEDER DRAIN (PROFILE)

SCALE: 1" = 200'

ISSUED FOR WV DEP REVIEW

PROJECT DELIVERY PROJECT ENGINEERING

Columbia Gas Transmission

MOUNTAINEER XPRESS PROJECT

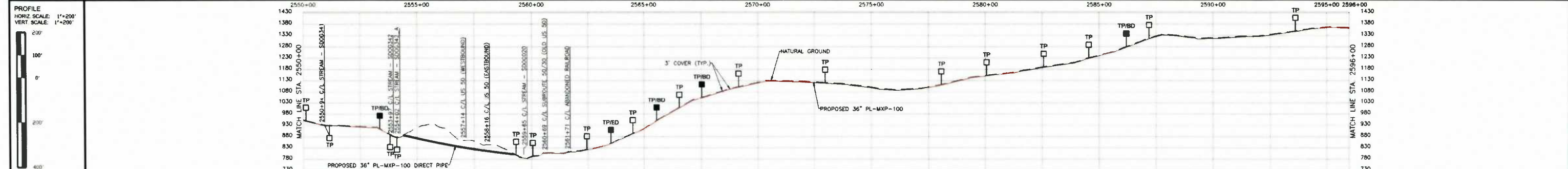
PROPOSED 36" PL-MXP-100 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA

ISSUED FOR WV DEP REVIEW	APR 04/07/17	D6987-ARD-011	EROSION & SEDIMENT CONTROL PLAN	DRAWN BY: HWK	DATE: 03/03/16	DRAWING NUMBER: 20432	ISSUE: P6
APPROVED BY:	DATE:	DWG. NO.:	REFERENCE:	DATE:	DATE:	DATE:	DATE:

ISSUE	D6987-ESC-056	OWNERSHIP	2550+00	2555+00	2560+00	2565+00	2570+00	2575+00	2580+00	2585+00	2590+00	2595+00	2596+00
STATIONING			506 FEET	506 FEET	506 FEET	191 FEET	601 FEET	292 FEET	1667 FEET	297+63	837 FEET	2596+00	
ENVIRONMENTAL			STREAM S000341 (EPHEMERAL)	STREAM S000342 (INTERMITTENT/INTERMITTENT)	STREAM S000343 (PERENNIAL)								
DEPTH OF COVER			5'	5'	5'	15'	5'		5'				



MATERIAL		2551+48	2554+46	2561+08	2566+50	2570+30	2587+72	2596+07
SOIL TYPE		Gd	Gaf	Ud	W Sd	Ue	Gaf	Gae
CLASS LOCATION FOR CONST PURPOSES		CLASS 1						
DESIGN FACTOR		0.72			0.5			0.72
HYDR TEST		HYDRO TEST - 3 (MIN TEST PRESSURE = 1802 PSIG)						



ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	INDUCTION BENDS & SEGMENTABLE ELBOWS											
							ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	RF-VI			
1		36	0.515	770	2950'													
2		36	0.615	770	300'													
4		36	0.750	770	5 EA													

NOTES

- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
- BROAD BASED DIPPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND

- MILEPOST MXP-100
- SHERWOOD LATERAL MXP-200
- COUNTY BORDER
- PROPERTY LINE
- ACCESS ROAD
- WETLAND
- WATERBODY
- FOREIGN PIPELINE
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- PROPERTY TRACT NUMBER
- LIMITS OF DISTURBANCE
- SILT FENCE
- SILT REINFORCED SILT FENCE
- SOL BOUNDARY
- WATERBAR
- MATS
- EROSION CONTROL BLANKET OR HYDROMULCH
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/BLEEDER DRAIN (PROFILE)

SCALE: 1" = 200'

200' 100' 0' 200' 400'

ISSUED FOR WV DEP REVIEW

APR 04/07/17

D6987-ARD-021 EROSION & SEDIMENT CONTROL PLAN

PROJECT DELIVERY PROJECT ENGINEERING

Columbia Gas Transmission

MOUNTAINEER XPRESS PROJECT

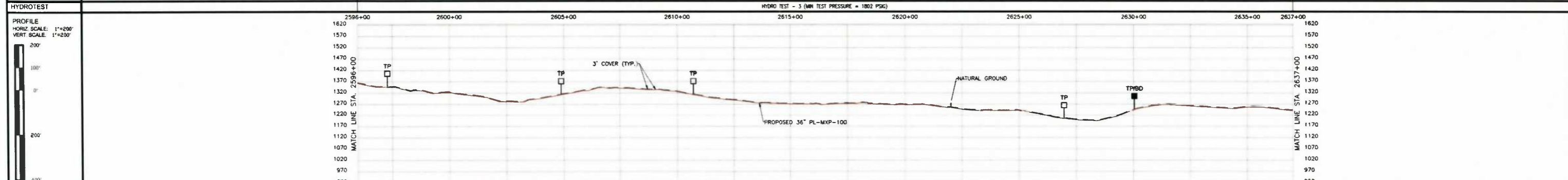
PROPOSED 36" PL-MXP-100 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA

DRAWN BY	HWK	DATE	03/03/16	DRAWING NUMBER		ISSUE	
CHECKED BY		DATE	2013				
DATE	04/13/16	DWG NO.	D6987-ESC-056	REFERENCE			

TRAVEL NUMBER D6987-ESC-057	OWNERSHIP	2596+00	2605+31	2611+10	2625+11	2628+37	2631+19	2637+00
		1031 FEET	479 FEET	2611+10	1401 FEET	608 FEET	581 FEET	2637+00
STATIONING		2596+00 MATCH LINE 2596+00 PROPERTY LINE	2597+54 FENCE, 4' HOG WIRE	2598+07 P.L. C. 2591.96' LT.	2600+54 P.L. C. 2591.96' LT.	2602+00 P.L. C. 2591.96' LT.	2604+95 4" XTO PIPELINE	2606+31 PROPERTY LINE 2606+31 PROPERTY LINE 2606+35 P.L. C. 2617.70' RT.
ENVIRONMENTAL								
DEPTH OF COVER								



MATERIAL	2596+00	2600+00	2605+00	2610+00	2615+00	2620+00	2625+00	2630+00	2637+00
SOIL TYPE	GaE	GaF	GaE	GaF	GaC	GaE	GaF	GaE	GaE
CLASS LOCATION FOR CONST. PURPOSES	CLASS 1								
DESIGN FACTOR	0.72								
HYDROTEST	HYDRO TEST - 3 (MIN TEST PRESSURE = 1802 PSIG)								



ITEM NUMBER	SERV. DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	CASING		INDUCTION BENDS & SEGMENTABLE FIBROWS								
						ITEM NUMBER	SERV. DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	LEVEL		
1		36"	0.515"	270	4100											
3R SEC		36"			4 EA											
60 SEC		36"			1 EA											

NOTES:

- PERMANENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
- BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLLIM CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND:

- WILEPOST MWP-100
- SHERWOOD LATERAL MWP-200
- COUNTY BORDER
- PROPERTY LINE
- ACCESS ROAD
- EXISTING COLUMBIA PIPELINE
- FOREIGN PIPELINE
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- WATERBODY
- PROPERTY TRACT NUMBER
- LIMITS OF DISTURBANCE
- SILT FENCE
- SUPER REINFORCED SILT FENCE
- SOIL BOUNDARY
- WATERBAR
- EROSION CONTROL BLANKET OR HYDROMULCH
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)
- TEMPORARY OVERSIZES
- SIDE SLOPE BLEEDER DRAIN

SCALE: 1" = 200'

ISSUED FOR WV DEP PERMIT 08/14/17

PROJECT DELIVERY PROJECT ENGINEERING

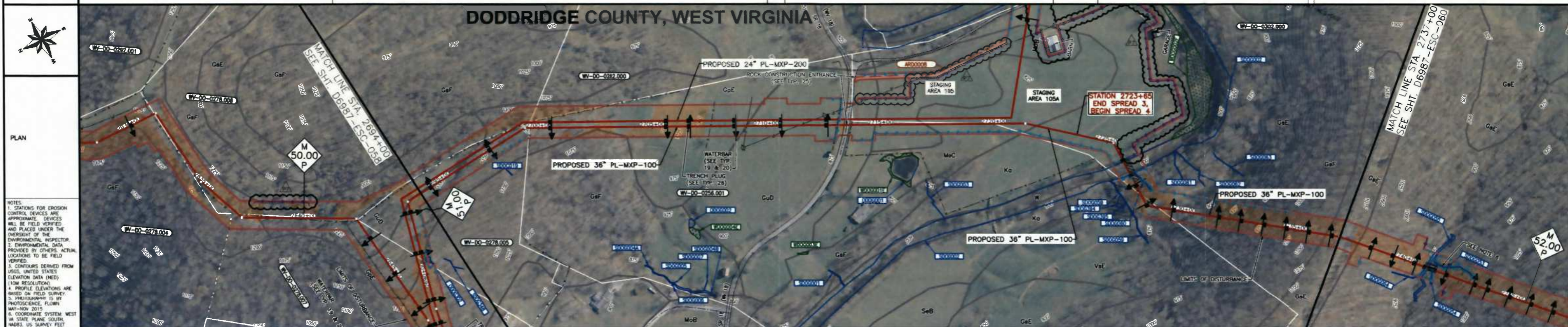
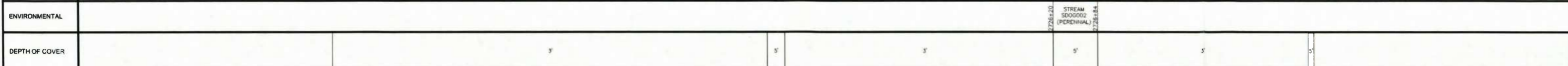
Columbia Gas Transmission

MOUNTAINEER XPRESS PROJECT

PROPOSED 36" PL-MXP-100 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA

DESIGNED BY	HWK	DATE	03/03/16	DRAWING NUMBER	D6987-ESC-057	ISSUE	P7
CHECKED BY		DATE					
APPROVED BY		DATE					

STATIONING	2694+00	2694+00	2699+61	2709+00	2719+99	2727+86	2737+00	2737+00
ENVIRONMENTAL								
DEPTH OF COVER								
OWNERSHIP	561 FEET	2038 FEET	787 FEET	103 FEET	811 FEET			
DETAILED NOTES	2694+00 MATCH LINE	2699+61 P.L.S. 31'45" 20' EL. 2699+61 PROPERTY LINE 2699+64 FENCE, 3' BARRIERS	2709+00 FENCE, 3' ELECTRIC 2709+15 BURIED POWER CABLE 2711+47 BURIED POWER CABLE	2719+99 FENCE, 4' HOOD AND BARRIERS 2713+42 EDGE OF ROAD (BY 18" PAVED) 2713+44 EDGE OF ROAD (BY 18" PAVED) 2713+74 FENCE, 4' HOOD AND BARRIERS	2727+86 PROPERTY LINE 2727+86 P.L.S. 13'00" 20' EL.	2737+00 040 SPREAD 3 2737+05 BEGIN SPREAD 4	2737+00 P.L.S. 48'37" 20' EL. 2737+20 EDGE OF STREAM - 5000002 (PERMANENT) 2737+20 FENCE, 4' BARRIERS 2737+20 PROPERTY LINE 2737+20 FENCE, 4' HOOD AND BARRIERS 2737+20 PROPERTY LINE	2737+00 MATCH LINE



MATERIAL	2694+00	2699+61	2709+00	2713+14	2713+94	2715+00	2720+00	2725+00	2730+00	2737+00
SOIL TYPE										
CLASS LOCATION FOR CONST. PURPOSES										
DESIGN FACTOR										
HYDROTEST										

ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	CASING		INDUCTION BONDS & SEGMENTABLE ELBOWS										
						ITEM	DIAMETER	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	BEVEL		
1		36"	0.515"	Y70	1888													
2		16"	0.618"	Y70	7530'													
3		36"	0.750"	X70	3													
4		36"	0.750"	X70	3													
5		36"			3 EA.													

NOTES:

- PERMANENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
- BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING-EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND:

- PROPERTY LINE
- ACCESS ROAD
- WETLAND
- WATERLINE
- WATERBODY
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- WATERBAR
- LIMITS OF DISTURBANCE
- SILT FENCE
- SUFER REINFORCED SILT FENCE
- SOIL BOUNDARY
- WATERBAR
- EROSION CONTROL BLANKET OR HYDROMULCH
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)
- TEMPORARY DIMENSIONS
- SIDE SLOPE BLEEDER DRAIN

SCALE: 1" = 200'

REVISIONS:

No.	REVISIONS	APPROVED BY	DATE
1	REVISED FOR WV DEP	ARL	08/14/17
2	ISSUED FOR WV DEP REVIEW	ARL	04/07/17

PROJECT DELIVERY PROJECT ENGINEERING

Columbia Gas Transmission

MOUNTAINEER XPRESS PROJECT

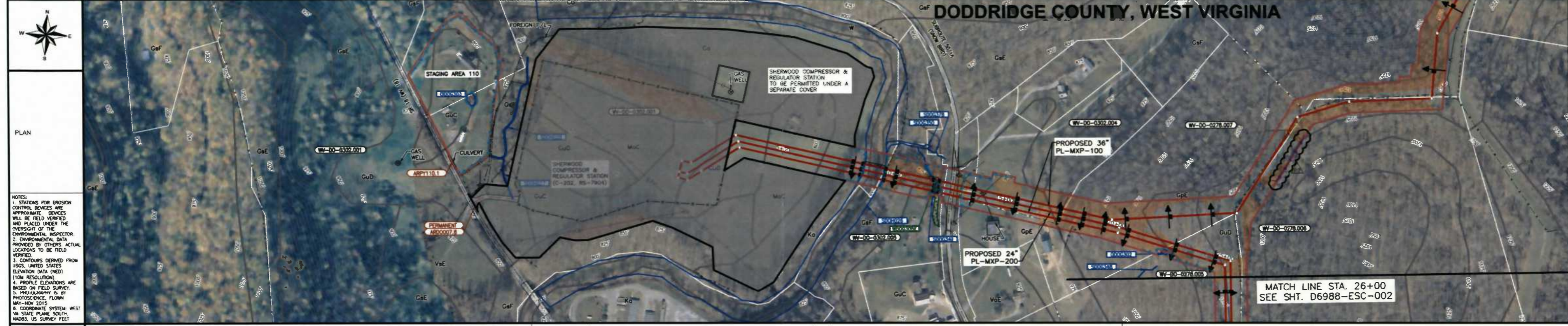
PROPOSED 36" PL-MXP-100 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA

ISSUED FOR WV DEP PERMIT 08/14/17

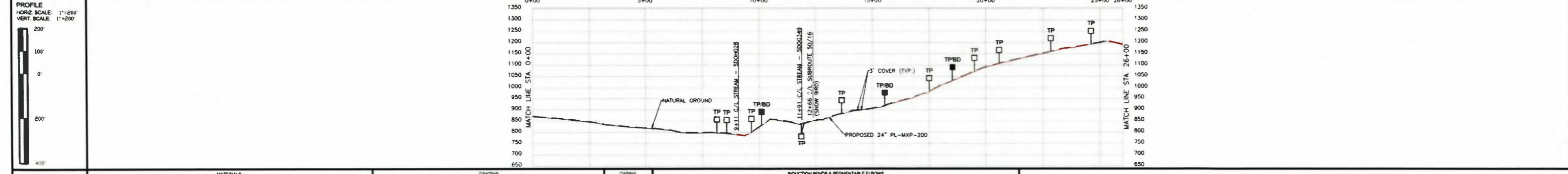
DATE	BY	DATE	BY
03/03/16		03/03/16	
20432		20432	
46130		46130	

DWG. NO.: D6987-ESC-059 **REFERENCE:** P7

STATIONING	0+00	952 FEET	12+52	278 FEET	12+30	77 FEET	13+07	451 FEET	17+58	510 FEET	22+68	332 FEET	26+00
ENVIRONMENTAL													
DEPTH OF COVER	3'		5'		3'		5'		5'				



MATERIAL	0+00	0+24	2+55	3+00	97'	12+28	13+06	129'	25+28	26+00
SOIL TYPE	GaC	GaD	MaC	Ke	W	GaF	GaE	GaF	GaE	GaD
CLASS LOCATION FOR CONST. PURPOSES	CLASS 1									
DESIGN FACTOR	0.5		0.72				0.5		0.72	
HYDROTEST	HYDRO TEST - 3 (MIN TEST PRESSURE = 1482 PSIG)									



MATERIALS				CASINGS				INJECTION BENDS & SEGMENTABLE ELBOWS							
ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	RF-#1
1		24"	0.375"	X70	2285										
3		24"	0.500"	X70	80										
3P SEG		24"			3 EA.										
FAB					255										

LEGEND		MATERIALS		CASINGS		INJECTION BENDS & SEGMENTABLE ELBOWS	
PERMANENT MATTING	PROPERTY LINE	UNDERGROUND CABLE	WETLAND	WATERLINE	WATERBAR	TRENCH PLUG (PLAN)	TRENCH PLUG (PROFILE)
ROUTE	ACCESS ROAD	OVERHEAD POWERLINE	WATERBODY	WATERLINE	WATERBAR	TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)	TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)
FOREIGN PIPELINE	PROPERTY TRACT NUMBER	SALT FENCE					
		SUPER REINFORCED SILT FENCE					
		SOIL BOUNDARY					
		EQUIPMENT BRIDGE					

NOTES:
 1. PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6987-TYP-004.
 2. INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
 3. WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
 4. HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
 5. BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
 6. ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

ACCESS ROAD (SHOULDER-BASE DIP LEGEND) (SEE NOTE 5)
 SHADING: 0-28 300 FEET, 29-36 150 FEET, 37-54 75 FEET, 55-72 75 FEET, 73-90 75 FEET. NO SHOULDER-BASE DIPS REQUIRED.

ADDITIONAL NOTES:
 A. SITTING SHALL BE INSTALLED ON THE UPSTREAM SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CORRECT UPSTREAM FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS, DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 48 AND 53. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
 B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

ISSUED FOR WV DEP PERMIT 08/14/17

PROJECT DELIVERY PROJECT ENGINEERING
 COLUMBIA Gas Transmission
 MOUNTAINEER XPRESS PROJECT
 PROPOSED 24" PL-MXP-200 PIPELINE EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA
 SCALE: 1" = 200'
 REVISED FOR WV DEP 08/14/17
 ISSUED FOR WV DEP REVIEW 04/07/17
 DWG NO. 29432
 REFERENCE: 46121
 D6988-ESC-001
 P7

06988-ESC-002	OWNERSHIP	26+00	31+00	36+00	41+00	46+00	51+00	56+00
516 FEET	67 FEET	9 FEET	1414 FEET	86 FEET	994 FEET	56 FEET		

STATIONING

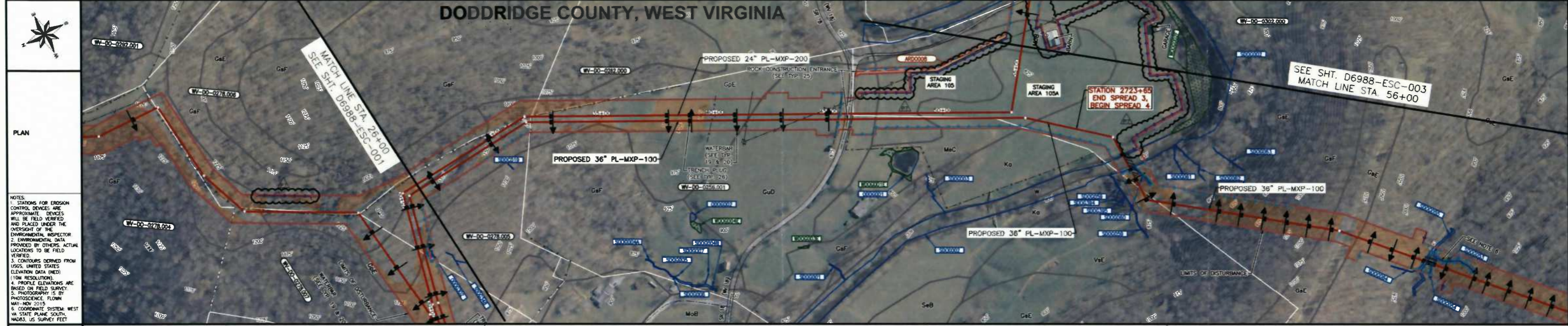
ENVIRONMENTAL

DEPTH OF COVER

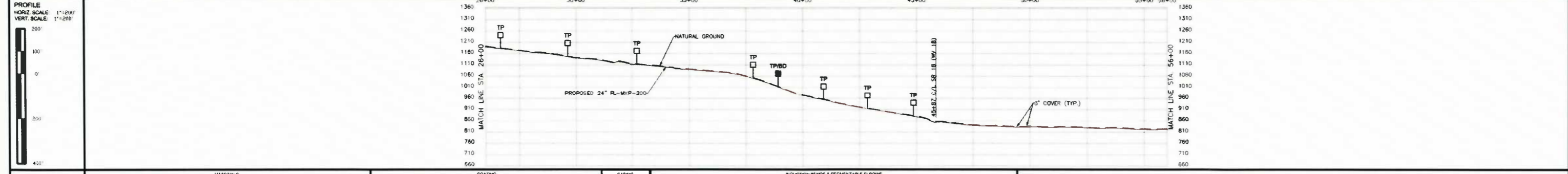
STATIONING

ENVIRONMENTAL

DEPTH OF COVER



MATERIAL	26+00	31+00	36+00	41+00	46+00	51+00	56+00
SOIL TYPE	GdU	GdE	GdU	M-8	M-8	M-8	M-8
CLASS LOCATION FOR CONST. PURPOSES	CLASS 1						
DESIGN FACTOR	0.72						
HYDROTEST	HYDRO TEST - J (MIN TEST PRESSURE = 1462 PSIG)						



ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	COATING		CASING		INDUCTION BONDS & SEGMENTABLE FLOWS																	
						DESCRIPTION	ITEM NUMBER	DIAMETER	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGRF	RADIUS	COATING	BEVEL										
1		24"	0.375"	X70	2920																						
2		36"	0.500"	X70	80																						

NOTES:

- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
- BROAD BASE DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND:

- MILEPOST 1.80
- MILEPOST SHERWOOD LATERAL MXP-200
- COUNTY BORDER
- PROPERTY LINE
- ACCESS ROAD
- WETLAND
- WATERLINE
- WATERBAR
- PROPERTY TRACT NUMBER
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- WATERBAR
- LIMITS OF DISTURBANCE
- SILT FENCE
- SUPER REINFORCED SILT FENCE
- SOIL BOUNDARY
- WATERBAR
- EROSION CONTROL BLANKET OR HYDROMULCH
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)
- TEMPORARY DIMENSIONS
- SIDE SLOPE BLEEDER DRAIN

SCALE: 1" = 200'

REVISED FOR WV DEP	APR	30/14/17							
ISSUED FOR WV DEP REVIEW	APR	04/07/17							
NO. REVISIONS		APPROVED BY	DATE	NO. REVISIONS		APPROVED BY	DATE	NO. REVISIONS	

PROJECT DELIVERY PROJECT ENGINEERING		Columbia Gas Transmission	
MOUNTAINEER XPRESS PROJECT			
TITLE PROPOSED 24" PL-MXP-200 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA			
DRAWN BY	DATE	DRAWING NUMBER	ISSUE
20432	03/17/16	D6988-ESC-002	P7

ISSUED FOR WV DEP PERMIT
09/14/17

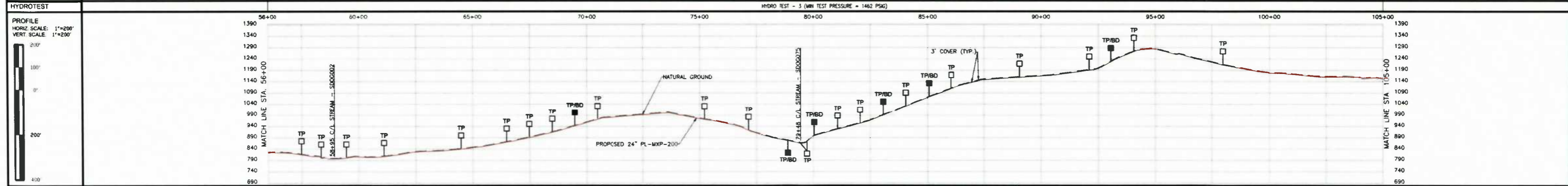
ISSUE	PLAN NUMBER	D6988-ESC-003	OWNERSHIP	56+00	63+00	71+00	79+00	87+00	95+00	103+00	105+00
				231 FEET	1509 FEET	1371 FEET	72 FEET	549 FEET	374 FEET	661 FEET	133 FEET

STATIONING	56+00 MATCH LINE	56+62 OVERHEAD POWERLINE	58+15 EDGE OF ROAD	58+22 C/L ROAD (GRAVEL)	58+27 EDGE OF ROAD	58+50 EDGE OF STREAM - S000002	59+40 EDGE OF STREAM - S000002	61+89 P.L. S. 2053137' RT.	73+40 PROPERTY LINE	77+28 P.L. S. 2053137' RT.	79+40 EDGE OF STREAM - S000002	79+55 EDGE OF STREAM - S000002	85+05 FENCE, HOODWIRE	86+30 FENCE, 4' BARWIRE	87+11 PROPERTY LINE	87+43 PROPERTY LINE	88+41 P.L. S. 2053137' RT.	88+63 OVERHEAD POWERLINE	93+32 PROPERTY LINE	93+32 FENCE, 4' BARWIRE	95+98 EDGE OF ROAD	96+04 C/L PRIVATE ROAD (GRAVEL)	96+11 EDGE OF ROAD	96+69 P.L. S. 2053137' RT.	97+08 PROPERTY LINE	100+19 CRK PIPELINE	100+94 FENCE, 4' BARWIRE	101+17 P.L. S. 2053137' RT.	103+46 P.L. S. 2053137' RT.	103+67 FENCE, 4' BARWIRE	104+20 P.L. S. 2053137' RT.	105+00 MATCH LINE
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ENVIRONMENTAL			STREAM S000002 (PERENNIAL)								STREAM S000003 (INTERMITTENT)																						
DEPTH OF COVER			3'	5'							5'																						



MATERIAL	56+00	63+00	71+00	79+00	87+00	95+00	103+00	105+00									
SOIL TYPE	MoB	Ka	W	Ka	MoC	VoD	GdE	GdF	GdE	GdF	GdE	GdF	GdE	GdF	GdE	GdF	GdE
CLASS LOCATION FOR CONST. PURPOSES	CLASS 1																
DESIGN FACTOR	0.72																
HYDROTEST	HYDRO TEST - 3 (MIN TEST PRESSURE = 1462 PSIG)																



ITEM NUMBER	SERVISE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	INDUCTION BENDS & SEGMENTABLE FITTINGS																										
							TYP.	DIAMETER	ITEM NUMBER	SERVISE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	SPACING	BEVEL																
1		24"	0.375"	X70	4900'																												
3R SEG		24"			6 EA.	3R SEGMENTABLE BENDS																											

NOTES:

- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004
- BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE

LEGEND:

- 1.50 MILEPOST MXP-100
- 1.50 SHERWOOD LATERAL MXP-200
- ROUTE
- EXISTING COLUMBIA PIPELINE
- FOREIGN PIPELINE
- COUNTY BORDER
- PROPERTY LINE
- ACCESS ROAD
- WETLAND
- WATERBODY
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- LIMITS OF DISTURBANCE
- SILT FENCE
- SUPER REINFORCED SILT FENCE
- SOL BOUNDARY
- WATERBAR
- MATS
- EROSION CONTROL BLANKET OR HYDROMULCH
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)
- TEMPORARY DIVERSIONS
- SIDE SLOPE BLEEDER DRAIN

SCALE: 1" = 200'

300' 100' 0' 200' 400'

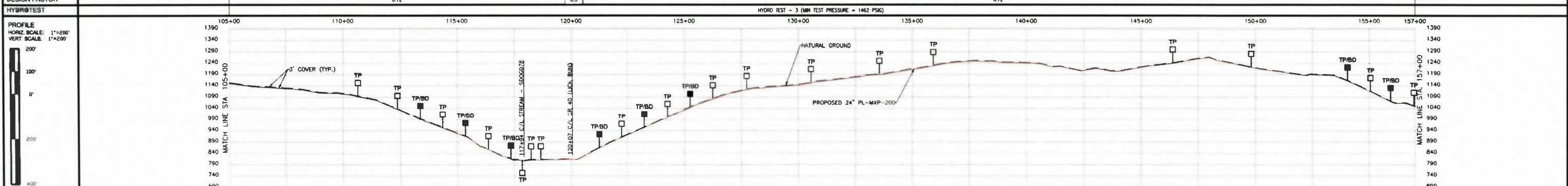
ISSUED FOR WV DEP PERMIT
08/14/17

PROJECT DELIVERY PROJECT ENGINEERING				Columbia Gas Transmission			
MOUNTAINEER XPRESS PROJECT				TITLE			
PROPOSED 24" PL-MXP-200 PIPELINE				EROSION & SEDIMENT CONTROL PLAN			
DODDORIDGE COUNTY, WEST VIRGINIA				DRAWING NUMBER			
D6988-ESC-003				ISSUE			
P7							

OWNERSHIP	STATIONING	ENVIRONMENTAL	DEPTH OF COVER
D6988-ESC-004	<p>105+00 MATCH LINE 105+00 PROPERTY LINE 105+00 ELECTRIC 105+00 PROPERTY LINE 105+38 P.L. & 5/4\"</p> <p>107+88 P.L. & 3/4\"</p> <p>108+38 P.L. & 3/4\"</p> <p>110+00 PROPERTY LINE 110+00 FENCE, 4\"</p> <p>117+20 FENCE, 4\" ELECTRIC 117+87 P.L. & 3/4\" 117+87 EDGE OF STREAM - 5000078 118+47 EDGE OF STREAM</p> <p>120+00 C/L OR R/L (LICK RUN) 120+00</p> <p>127+20 FENCE, 4\" BARRIERS 127+88 P.L. & 3/4\" 127+87 127+53 PROPERTY LINE</p> <p>131+18 P.L. & 3/4\"</p> <p>132+41 PROPERTY LINE 132+41 FENCE, 3\" BARRIERS</p> <p>134+31 P.L. & 3/4\"</p> <p>137+48 FENCE, 3\" BARRIERS 137+48 PROPERTY LINE 137+48 AND BARRIERS 137+78 P.L. & 3/4\"</p> <p>139+11 P.L. & 3/4\" 139+11 139+45 PROPERTY LINE 139+45 FENCE, 3\" BARRIERS 139+45 AND BARRIERS 140+00 P.L. & 3/4\" 140+00</p> <p>143+87 2\" EAST RESOURCES PIPELINE</p> <p>147+90 PROPERTY LINE</p> <p>152+38 P.L. & 3/4\"</p> <p>156+35 C/L ROAD (D&T)</p> <p>157+00 MATCH LINE</p>	<p>STREAM 5000078 (INTERMITTENT)</p>	<p>3'</p> <p>5'</p> <p>3'</p> <p>3'</p> <p>3'</p>



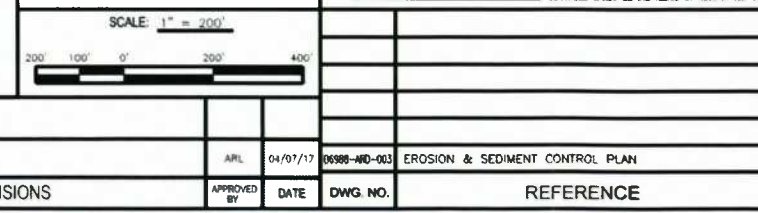
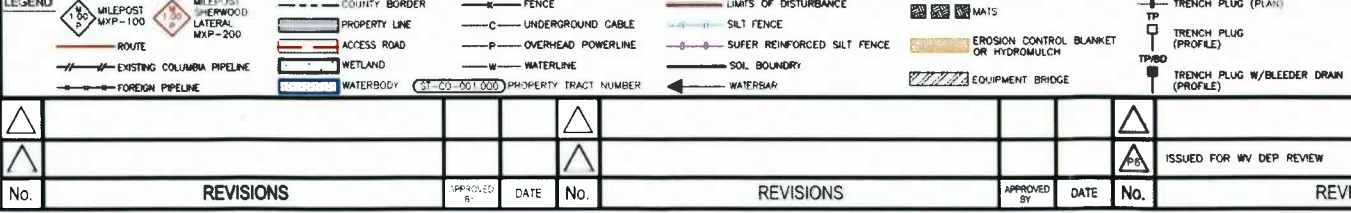
MATERIAL	SOIL TYPE	CLASS LOCATION FOR CONST. PURPOSES	DESIGN FACTOR
<p>119+00</p> <p>120+47</p> <p>121+20</p> <p>137+72</p> <p>139+10</p> <p>140+25</p>	<p>GdE</p> <p>GdF</p> <p>Gh</p> <p>VeE</p> <p>GdF</p> <p>GdE</p> <p>GdF</p> <p>GdD</p> <p>GdE</p> <p>GdF</p> <p>GdE</p>	<p>CLASS 1</p>	<p>0.72</p> <p>0.5</p> <p>0.72</p>



ITEM NUMBER	SERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	COATING		CASING		INDUCTION BENDS & SEGMENTABLE ELBOWS										
						DESCRIPTION	ITEM	DIAMETER	ITEM NUMBER	SERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DIFORM	RADIUS	COATING	BEVEL			
1		24"	0.375"	X70	5120'															
2		24"	0.500"	X70	89'															
3		3"			5 EA															

NOTES:

- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
- BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.



<p>PROJECT DELIVERY</p> <p>PROJECT ENGINEERING</p> <p><small>1700 N. STATE ST. SUITE 200 CHARLOTTE, NC 28203</small></p>				<p>Columbia Gas Transmission</p>
<p>MOUNTAINEER XPRESS PROJECT</p> <p>PROPOSED 24" PL-MXP-200 PIPELINE</p> <p>EROSION & SEDIMENT CONTROL PLAN</p> <p>DODDRIDGE COUNTY, WEST VIRGINIA</p>				
<p>ISSUED FOR WV DEP REVIEW</p>	<p>APR 04/07/17</p>	<p>D6988-003</p>	<p>EROSION & SEDIMENT CONTROL PLAN</p>	<p>ISSUE P6</p>
<p>DESIGNED BY</p>	<p>HWK</p>	<p>DATE</p>	<p>03/17/16</p>	<p>DRAWING NUMBER</p>
<p>PROJECT NUMBER</p>	<p>20432</p>	<p>DWG. NO.</p>	<p>D6988-ESC-004</p>	<p>ISSUE</p>
<p>APPROVED BY</p>	<p>DATE</p>	<p>APPROVED BY</p>	<p>DATE</p>	<p>REFERENCE</p>
<p>46121</p>				

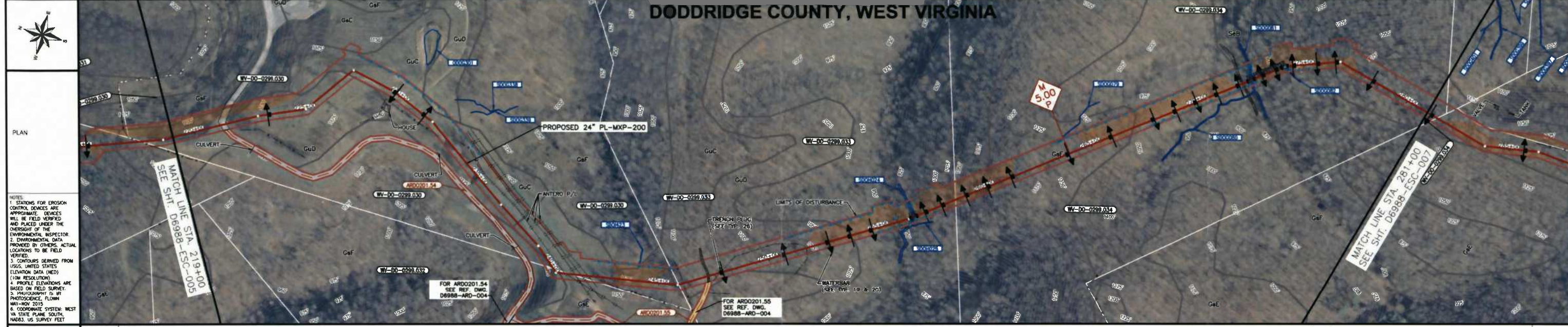
ISSUED FOR WV DEP REVIEW

04/07/17

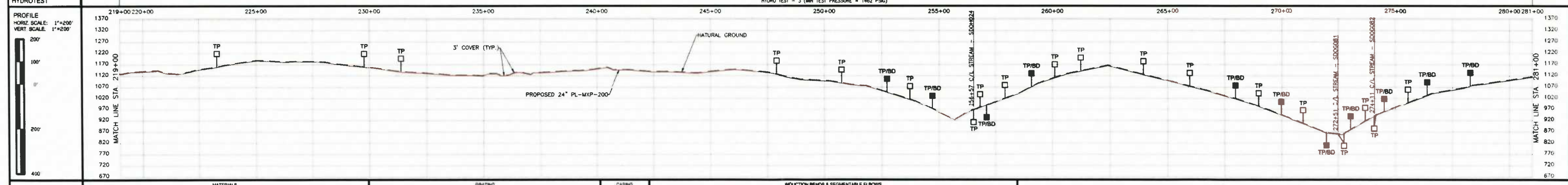
900-000-000	OWNERSHIP	2123 FEET	90 FEET	475 FEET	1272 FEET	2240 FEET
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STATIONING	219+00 MATCH LINE	221+18 EDGE OF ROAD (GRAVEL)	221+31 C/L ROAD (GRAVEL)	221+45 EDGE OF ROAD	222+85 P.L. S. 335.18' RT.	225+01 P.L. S. 310.24' LT.	227+23 P.L. S. 872.67' RT.	229+87 P.L. S. 1023.06' RT.	231+85 P.L. S. 121.00' RT.	238+58 P.L. S. 728.87' LT.	240+23 P.L. S. 835.15' RT.	240+23 PROPERTY LINE	240+23 SHERWOOD LATERAL	241+13 PROPERTY LINE	241+25 ANTERO PIPELINE	241+87 ANTERO PIPELINE	247+20 EDGE OF ROAD (DRT)	247+28 C/L PRIVATE ROAD (DRT)	247+78 C/L PRIVATE ROAD (DRT)	251+73 C/L PRIVATE ROAD (DRT)	258+40 PROPERTY LINE	272+10 EDGE OF ROAD (GRAVEL)	272+14 C/L ROAD (GRAVEL)	272+17 EDGE OF ROAD	272+54 EDGE OF ROAD	274+10 EDGE OF ROAD (GRAVEL)	274+15 P.L. S. 1248.56' RT.	278+81 P.L. S. 342.70' RT.	281+00 MATCH LINE
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ENVIRONMENTAL																													
DEPTH OF COVER																													



MATERIAL	219+00	225+01	227+73	240+44	527+00	271+74	272+84	278+81	281+00
SOIL TYPE	GwD	GwC	GwE	GwF	GwE	GwD	GwF	GwE	GwE
CLASS LOCATION FOR CONST. PURPOSES	CLASS 1								
DESIGN FACTOR	0.72								
HYDROTEST	HYDRO TEST - 3 (MIN TEST PRESSURE = 1462 PSIG)								



ITEM NUMBER	SERVISE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	INDUCTION BENDS & SEGMENTABLE FLOWS																							
						DESCRIPTION	TY	DIAMETER	ITEM NUMBER	SERVISE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	REVEL												
1		24"	0.375"	X70	8120'																								
2		24"	0.500"	X70	80'																								
3P		24"			4 EA																								

NOTES:

- PERMANENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
- BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND:

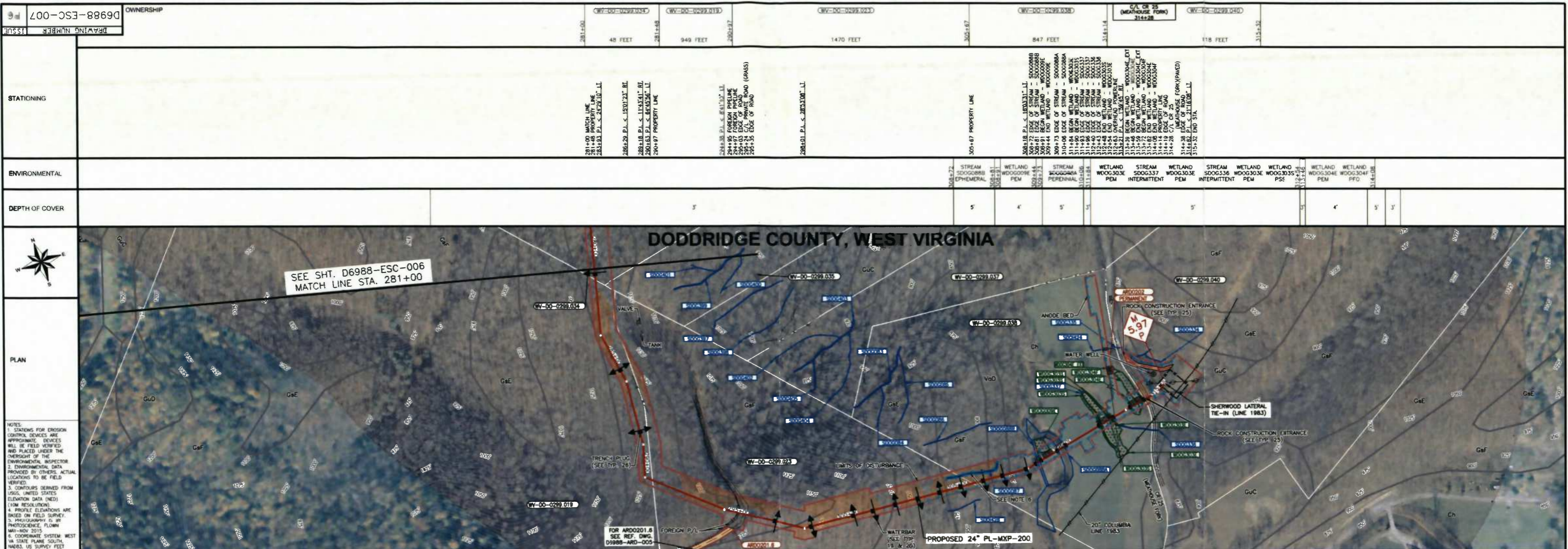
- MILEPOST MXP-100
- SHERWOOD LATERAL MXP-200
- COUNTY BORDER
- PROPERTY LINE
- ACCESS ROAD
- ROUTE
- EXISTING COLUMBIA PIPELINE
- FOREIGN PIPELINE
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- WATERBODY
- WATERBAR
- LIMITS OF DISTURBANCE
- SALT FENCE
- SUPER REINFORCED SILT FENCE
- SOIL BOUNDARY
- WATERBAR
- MATS
- EROSION CONTROL BLANKET OR HYDROMULCH
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/BLEEDER DRAIN (PROFILE)

ISSUED FOR WV DEP REVIEW
04/07/17

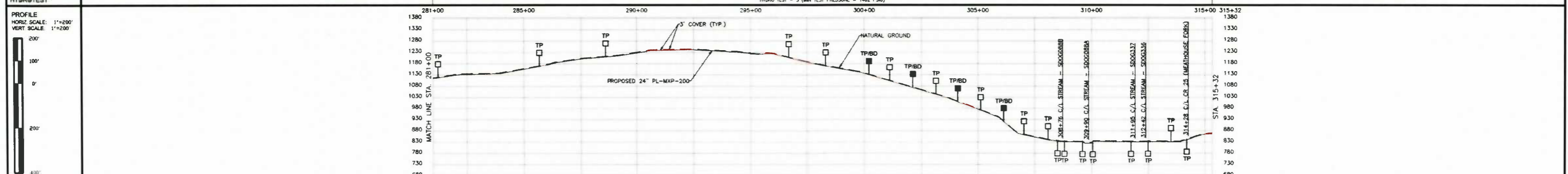
PROJECT DELIVERY
PROJECT ENGINEERING
Columbia Gas Transmission

TITLE: MOUNTAINEER XPRESS PROJECT
PROPOSED 24" PL-MXP-200 PIPELINE
EROSION & SEDIMENT CONTROL PLAN
DODDRIDGE COUNTY, WEST VIRGINIA

ISSUED BY:	HWK	DATE:	03/17/16	DRAWING NUMBER:	D6988-ESC-006	ISSUE:	P6
APPROVED BY:		DATE:	04/07/17	DWG. NO.:	06988-ND-04	REFERENCE:	



ENVIRONMENTAL	W00G030E	W00G030F	W00G030G	W00G030H	W00G030I	W00G030J	W00G030K	W00G030L	W00G030M	W00G030N	W00G030O	W00G030P	W00G030Q	W00G030R	W00G030S	W00G030T	W00G030U	W00G030V	W00G030W	W00G030X	W00G030Y	W00G030Z
DEPTH OF COVER	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5



MATERIALS				COATING				CASING				REDUCTION BENDS & SEGMENTABLE ELBOWS			
ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	BEVEL
1		24"	0.375"	X70	3332'	3R SEGMENTABLE BENDS									
2		24"	0.300"	X70	80'	3/4 FACILITIES									
3		24"			3 EA										
4					20'										

LEGEND		LEGEND		LEGEND		LEGEND	
WILEPOST MXP-100	SHERWOOD LATERAL MXP-200	COUNTY BORDER	PROPERTY LINE	FENCE	UNDERGROUND CABLE	LIMITS OF DISTURBANCE	SILT FENCE
ROUTE	ACCESS ROAD	WATERLINE	WATERBODY	OVERHEAD POWERLINE	SUPER REINFORCED SILT FENCE	EROSION CONTROL BLANKET OR HYDROMULCH	EQUIPMENT BRIDGE
EXISTING COLUMBIA PIPELINE	FOREIGN PIPELINE	WATERLINE	WATERBODY	WATERLINE	WATERBAR	TRENCH PLUG (PLAN)	TRENCH PLUG (PROFILE)
						TRENCH PLUG W/BLEEDER DRAIN (PROFILE)	

NOTES:

- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6887-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6887-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6887-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6887-TYP-004.
- BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6887-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6887-TYP-004 AS APPLICABLE.

ADDITIONAL NOTES:

- SHOULDER, UPDRAIN, DITCHES, DITCHES AND CULVERTS SHALL BE PROVIDED WHERE THE ACCESS ROADS PARALLEL THE CONTROL WITHIN THE SHADOWED AREAS IN ACCORDANCE WITH TYPICAL DETAIL 48 AND 53.
- DITCHING SHALL BE INSTALLED ON THE UPGRADE SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPSTREAM FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 48 AND 53. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
- IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

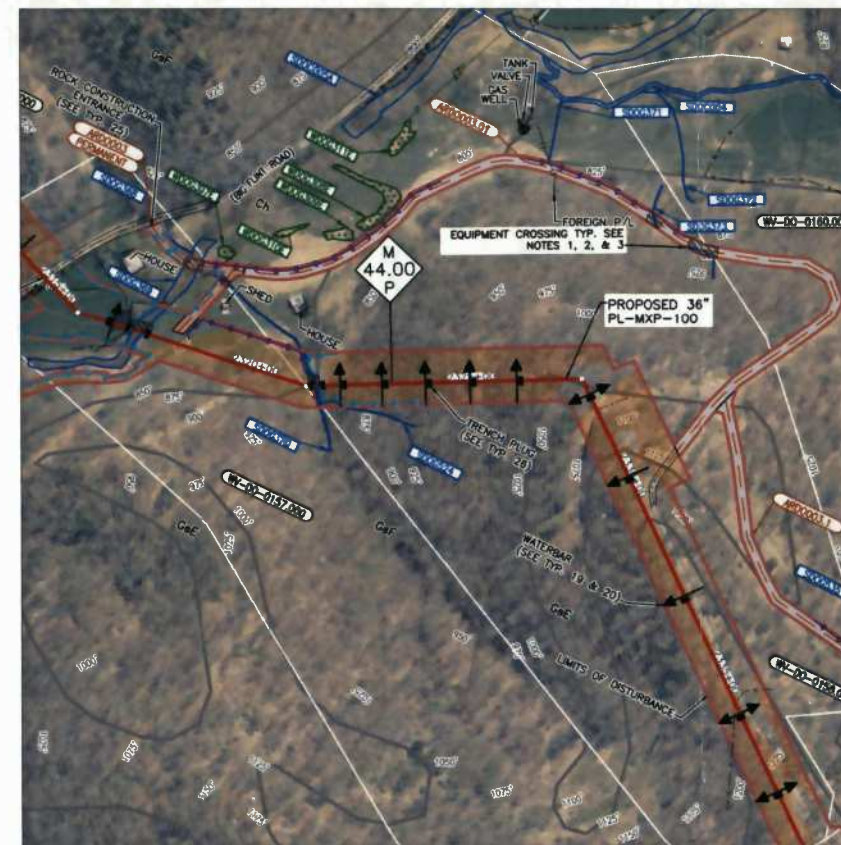
ISSUED FOR WV DEP REVIEW
04/07/17

PROJECT DELIVERY		PROJECT ENGINEERING		Columbia Gas Transmission	
MOUNTAINEER XPRESS PROJECT					
PROPOSED 24" PL-MXP-200 PIPELINE					
EROSION & SEDIMENT CONTROL PLAN					
DODDORIDGE COUNTY, WEST VIRGINIA					
DATE	03/17/16	DRAWING NUMBER	D6888-ARD-005	ISSUE	P6
DATE	04/07/17	DRAWING NUMBER	D6888-ARD-005	ISSUE	P6
DATE	04/07/17	DRAWING NUMBER	D6888-ARD-005	ISSUE	P6

ACCESS ROAD DETAILS ARD0002.9 & ARD0003.01



ACCESS ROAD ARD0002.9
 DODDRIDGE CO., WV
 REF. ALIGNMENT: D6987-ESC-050
 1"=200'



ACCESS ROAD ARD0003.01
 DODDRIDGE CO., WV
 REF. ALIGNMENT: D6987-ESC-051
 1"=200'

ACCESS ROAD
 BROAD-BASE DIP LEGEND*
 (SEE NOTE 5)

PERCENT SLOPE	DIP SPACING
0-2%	300 FEET
2-5%	150 FEET
5-15%	100 FEET
> 15%	75 FEET
NO BROAD-BASE DIPS REQUIRED.	

* SHADED SEGMENTS, UPGRADIENT ROADSIDE DITCHING AND CULVERTS SHALL BE PROVIDED WHERE THE ACCESS ROADS PARALLEL THE CONTOUR WITHIN THE SHADED AREAS IN ACCORDANCE WITH TYPICAL DETAIL 40 AND 93.

ADDITIONAL NOTES:
 A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADIENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 40 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
 B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

- NOTES:
- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6987-TYP-004.
 - INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
 - WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
 - HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
 - BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
 - ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE

No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE

DWG. NO.	REFERENCE	PROJECT NUMBER	DRAWING NUMBER	ISSUE
06987-ESC-051	EROSION & SEDIMENT CONTROL PLAN	20432	D6987-ARD-019	P1
06987-ESC-050	EROSION & SEDIMENT CONTROL PLAN	46130		

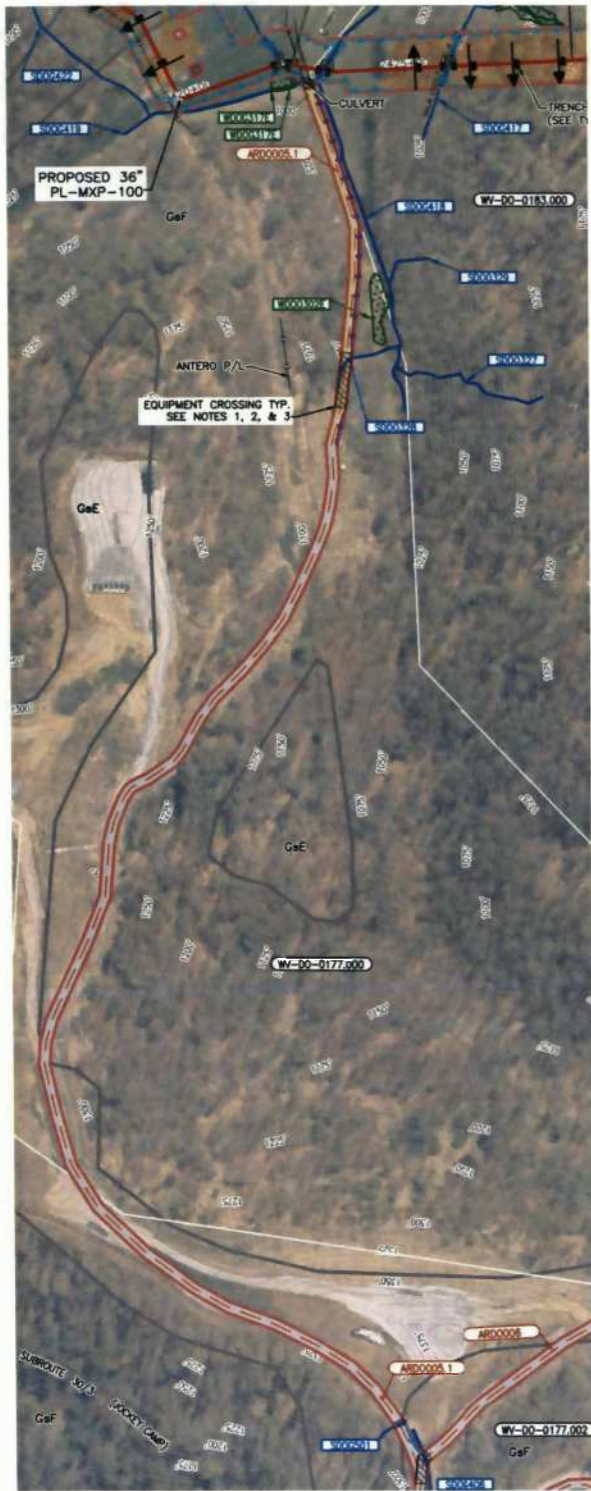
**ISSUED FOR
 WV DEP PERMIT**
 09/22/17

**PROJECT DELIVERY
 PROJECT ENGINEERING**
 Columbia Gas Transmission

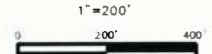
MOUNTAINEER XPRESS PROJECT
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

ACCESS ROAD DETAILS

ARDO005.1, ARDO005.6, ARDO005.8, ARDO006, ARDO006.1, & ARDO006.8 1-2 OF 2



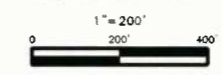
ACCESS ROAD ARDO005.1
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-053



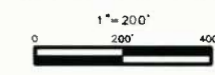
ACCESS ROAD ARDO005.6, ARDO005.8, ARDO006 & ARDO006.1
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-053



ACCESS ROAD ARDO006.8 1 of 2
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-055



ACCESS ROAD ARDO006.8 2 of 2
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-055



ACCESS ROAD
BROAD-BASE DIP LEGEND*
(SEE NOTE 5)

PERCENT SLOPE	DIP SPACING
0-2%	300 FEET
2-5%	150 FEET
5-15%	75 FEET
>15%	NO BROAD-BASE DIPS REQUIRED

* SHADED SEGMENTS, UPGRADIENT ROADSIDE DITCHING AND CULVERTS SHALL BE PROVIDED WHERE THE ACCESS ROADS PARALLEL THE CONTOUR WITHIN THE SHADED AREAS IN ACCORDANCE WITH TYPICAL DETAIL 40 AND 93.

ADDITIONAL NOTES:
A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADIENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 40 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

NOTES:
1. PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6987-TYP-004.
2. INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
3. WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 38 ON DRAWING D6987-TYP-004.
4. HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
5. BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
6. ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE

DATE	BY	DESCRIPTION
09/22/17	JHE	ISSUED FOR BD
08/14/17	ARL	ISSUED FOR WV DEP REVIEW
04/07/17	ARL	ISSUED FOR WV DEP REVIEW

PROJECT DELIVERY PROJECT ENGINEERING 1700 MONROE AVENUE, SUITE 200 EVINGTON, WV 26039		Columbia Gas Transmission
MOUNTAINEER Xpress PROJECT		
TITLE: EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA		
DRAWN BY: PM	DATE: 03/17/16	DRAWING NUMBER: D6987-ARD-020
NO.:	20432	ISSUE: P2
DATE:	03/17/16	
DWG. NO:	46130	

ISSUED FOR
WV DEP PERMIT
09/22/17

ACCESS ROAD DETAILS ARD0007.1 & ARD0007.6 1-2 OF 2



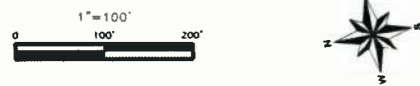
ACCESS ROAD ARD0007.6 1 of 2
 DODDRIDGE CO., WV
 REF. ALIGNMENT: D6987-ESC-057



ACCESS ROAD ARD0007.6 2 of 2
 DODDRIDGE CO., WV
 REF. ALIGNMENT: D6987-ESC-057



ACCESS ROAD ARD0007.1
 DODDRIDGE CO., WV
 REF. ALIGNMENT: D6987-ESC-056



ACCESS ROAD BROAD-BASE DIP LEGEND* (SEE NOTE 5)

PERCENT SLOPE	DIP SPACING
0-2%	300 FEET
2-5%	150 FEET
5-15%	100 FEET
>15%	75 FEET
NO BROAD-BASE DIPS REQUIRED	

ADDITIONAL NOTES:
 A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADEMENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 40 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
 B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

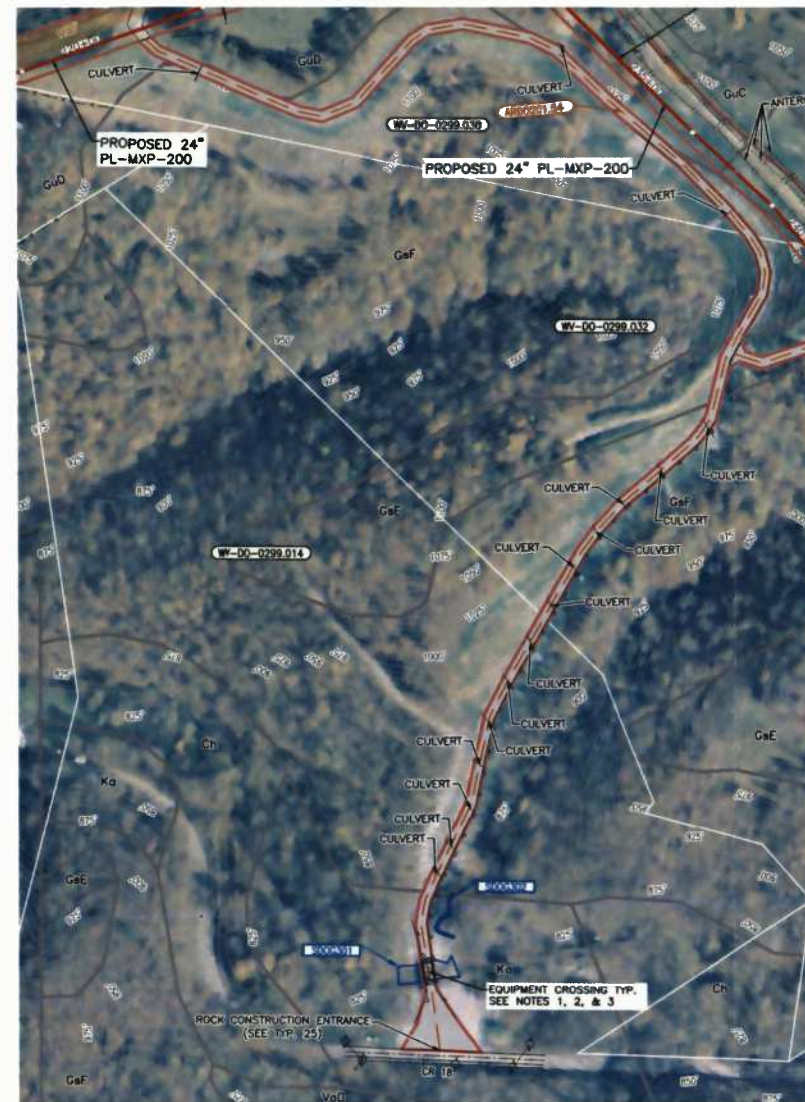
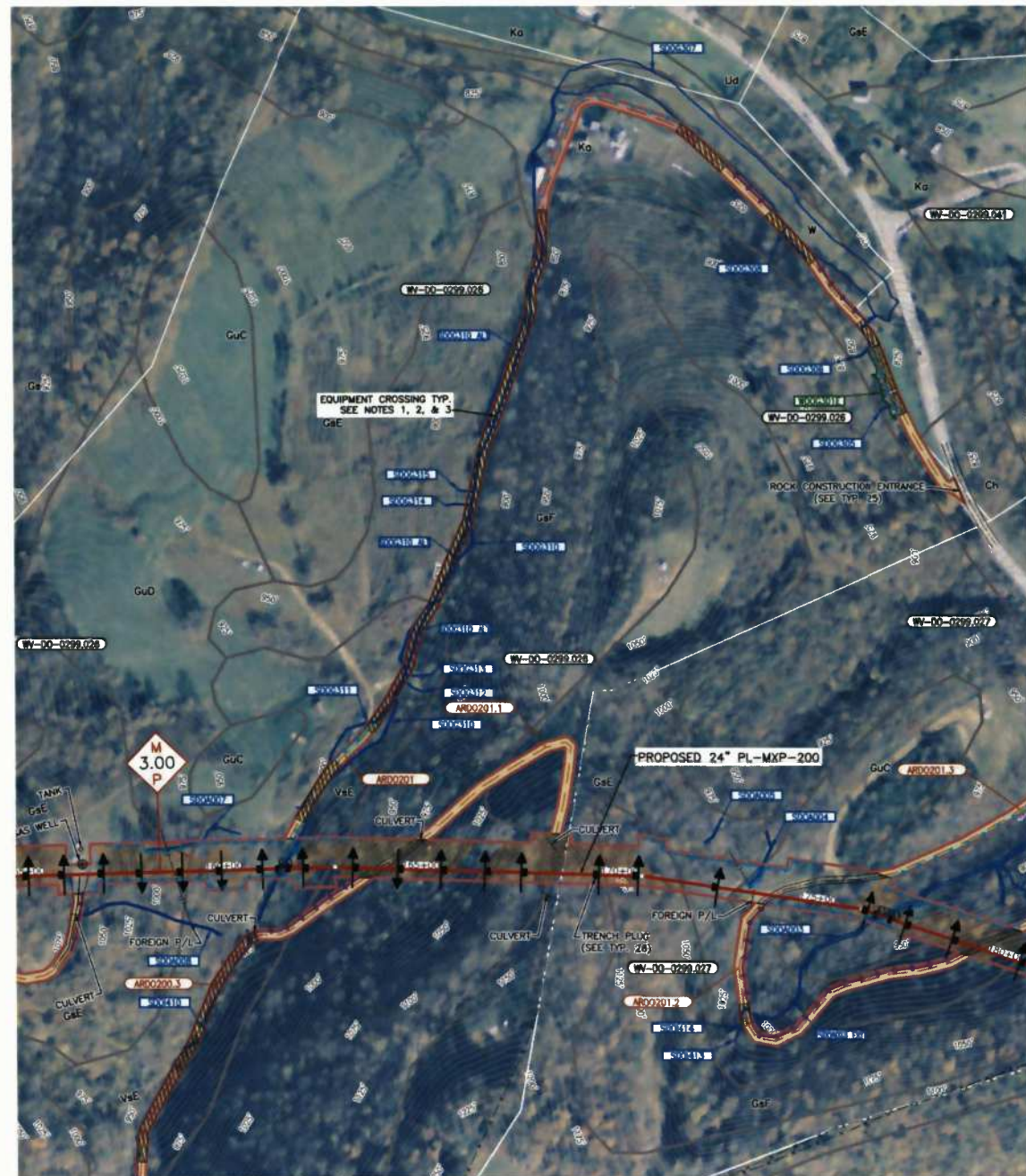
No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE

ISSUED FOR WV DEP PERMIT 09/22/17



PROJECT DELIVERY PROJECT ENGINEERING		MOUNTAINEER XPRESS PROJECT	
TITLE EROSION & SEDIMENT CONTROL PLAN		DODDRIDGE COUNTY, WEST VIRGINIA	
DRAWN BY: PM	DATE: 05/27/16	DRAWING NUMBER: D6987-ARD-021	ISSUE: P1
PROJECT NUMBER: 20432			
SCALE: E			

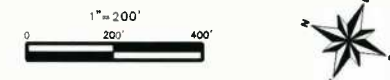
ACCESS ROAD DETAILS ARD0201, ARD0201.54 & ARD0201.55



ACCESS ROAD ARD0201.54
DODDRIDGE CO., WV
REF. ALIGNMENT: D6988-ESC-006



ACCESS ROAD ARD0201.55
DODDRIDGE CO., WV
REF. ALIGNMENT: D6988-ESC-006



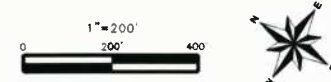
**ISSUED FOR
WV DEP PERMIT**
08/22/17

ACCESS ROAD BROAD-BASE DIP LEGEND* (SEE NOTE 5)

PERCENT SLOPE	DIP SPACING
0-2%	300 FEET
2-5%	150 FEET
5-15%	100 FEET
> 15%	75 FEET
NO BROAD-BASE DIPS REQUIRED	

ADDITIONAL NOTES:
A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADIENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 48 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

ACCESS ROAD ARD0201
DODDRIDGE CO., WV
REF. ALIGNMENT: D6988-ESC-005



NOTES
1. PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6987-TYP-004.
2. INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
3. WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
4. HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
5. BROAD BASE DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
6. ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND		REVISIONS	
	MILEPOST MXP-100	No.	REVISIONS
	MILEPOST SHERWOOD LATERAL MXP-200	APPROVED BY	DATE
	COUNTY BORDER	No.	REVISIONS
	PROPERTY LINE	APPROVED BY	DATE
	ACCESS ROAD	No.	REVISIONS
	WETLAND	APPROVED BY	DATE
	WATERBODY	No.	REVISIONS
	FENCE	APPROVED BY	DATE
	UNDERGROUND CABLE	No.	REVISIONS
	OVERHEAD POWERLINE	APPROVED BY	DATE
	WATERLINE	No.	REVISIONS
	SOIL BOUNDARY	APPROVED BY	DATE
	WATERBAR	No.	REVISIONS
	LIMITS OF DISTURBANCE	APPROVED BY	DATE
	SILT FENCE	No.	REVISIONS
	SUPER REINFORCED SILT FENCE	APPROVED BY	DATE
	EROSION CONTROL BLANKET OR HYDROMULCH	No.	REVISIONS
	EQUIPMENT BRIDGE	APPROVED BY	DATE
	TRENCH PLUG (PLAN)	No.	REVISIONS
	TRENCH PLUG (PROFILE)	APPROVED BY	DATE
	TRENCH PLUG W/BLEEDER DRAIN (PROFILE)	No.	REVISIONS

PROJECT DELIVERY PROJECT ENGINEERING		Columbia Gas Transmission	
MOUNTAINEER XPRESS PROJECT			
TITLE: EROSION & SEDIMENT CONTROL PLAN, DODDRIDGE COUNTY, WEST VIRGINIA			
ENGIN BY	CWB	DATE	DRAWING NUMBER
20432		06/09/16	D6988-ARD-004
DATE PLOTTED			ISSUE
46:30			P1

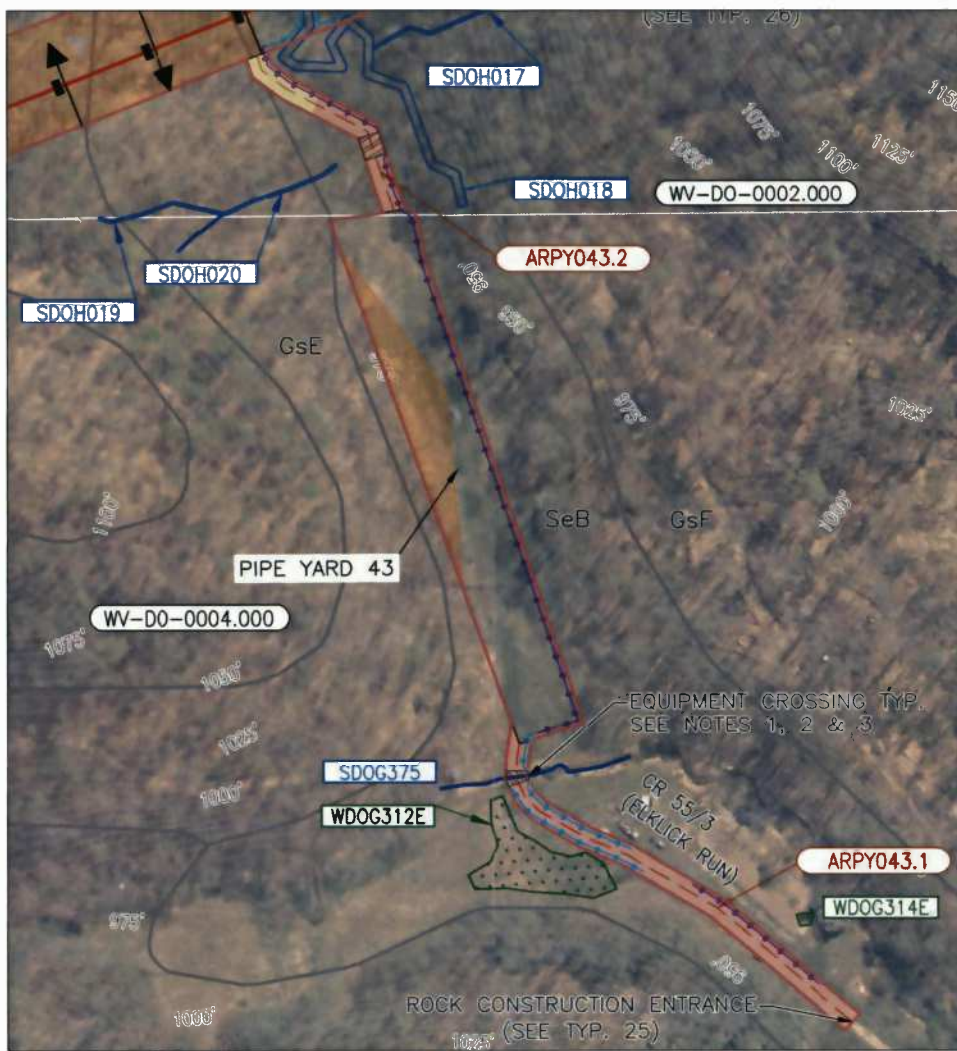
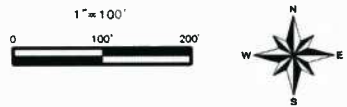
PIPE YARD DETAILS

PIPE YARDS 23, 43 & 141

ACCESS ROADS ARPY023.1, ARPY023.2 ARPY043.1, ARPY043.2 & ARPY141.1



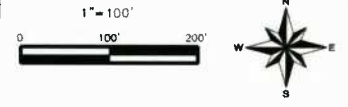
PIPE YARD 23, ARPY023.1 & ARPY023.2
 WETZEL CO., WV



PIPE YARD 43, ARPY043.1 & ARPY043.2
 DODDRIDGE CO., WV
 REF. ALIGNMENT: D6987-ESC-043



PIPE YARD 141, ARPY141.1
 DODDRIDGE CO., WV



ACCESS ROAD BROAD-BASE DIP LEGEND* (SEE NOTE 5)

PERCENT SLOPE	DIP	SPACING
0-2%	300 FEET	
2-5%	150 FEET	
5-15%	100 FEET	
> 15%	75 FEET	
NO BROAD-BASE DIPS REQUIRED		

ADDITIONAL NOTES:
 A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADIENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 40 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
 B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

- NOTES:**
- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6987-TYP-004.
 - INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
 - WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
 - HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
 - BROAD-BASE DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
 - ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE

DWG. NO.	REFERENCE	APPROVED BY	DATE	DWG. NO.	REFERENCE	APPROVED BY	DATE

PROJECT DELIVERY PROJECT ENGINEERING		Columbia Gas Transmission	
MOUNTAINEER XPRESS PROJECT			
TITLE: EROSION & SEDIMENT CONTROL PLAN WETZEL & DODDRIDGE COUNTIES, WEST VIRGINIA			
DRAWN BY	PM	DATE	DRAWING NUMBER
		10/12/16	D6987-PYD-003
PROJECT NUMBER	46130	ISSUE	P2

ISSUED FOR WV DEP PERMIT
09/22/17

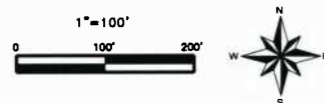
PIPE YARD DETAILS

PIPE YARDS 47, 90 & 90A

ACCESS ROADS ARPY047.1 & ARPY047.2



PIPE YARD 47, ARPY047.1 & ARPY047.2
DODDRIDGE CO., WV



PIPE YARD 90 & 90A, ARD0013.1
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-066



ACCESS ROAD
BROAD-BASE DIP LEGEND*
(SEE NOTE 5)

PERCENT SLOPE	DIP SPACING
0-2%	300 FEET
2-5%	150 FEET
5-15%	100 FEET
>15%	75 FEET
NO BROAD-BASE DIPS REQUIRED	

* SHADED SEGMENTS, UPGRADIENT ROADSIDE DITCHING AND CULVERTS SHALL BE PROVIDED WHERE THE ACCESS ROADS PARALLEL THE CONTOUR WITHIN THE SHADED AREAS IN ACCORDANCE WITH TYPICAL DETAIL 40 AND 93.

ADDITIONAL NOTES:
A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADIENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 40 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

NOTES:
1. PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
2. INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
3. WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
4. HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
5. BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
6. ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-33 ON DRAWING D6987-TYP-004 AS APPLICABLE.

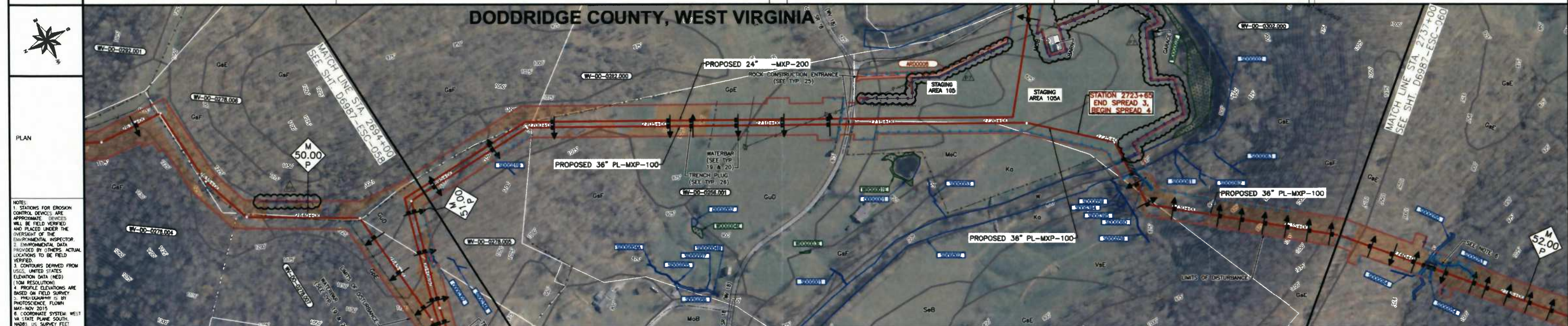
LEGEND	SYMBOL	DESCRIPTION
1.50'	MILEPOST	MWP-100
1.50'	MILEPOST	SHERWOOD LATERAL MKP-200
---	COUNTY BORDER	
---	PROPERTY LINE	
---	ACCESS ROAD	
---	ROUTE	
---	EXISTING COLUMBIA PIPELINE	
---	FOREIGN PIPELINE	
---	FENCE	
---	UNDERGROUND CABLE	
---	OVERHEAD POWERLINE	
---	WATERLINE	
---	WATERBODY	
---	WATERBAR	
---	LIMITS OF DISTURBANCE	
---	SILT FENCE	
---	SUPER REINFORCED SILT FENCE	
---	SOIL BOUNDARY	
---	WATERBAR	
---	MATS	
---	EROSION CONTROL BLANKET OR HYDROMULCH	
---	EQUIPMENT BRIDGE	
---	TRENCH PLUG (PLAN)	
---	TRENCH PLUG (PROFILE)	
---	TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)	
---	TEMPORARY DIVERSIONS	
---	SIDE SLOPE BLEEDER DRAIN	

No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE
				P2	ADDED LEGEND AND NOTES	ARL	09/22/17	B	ISSUED FOR BID	JHE	05/05/17
				P1	REVISED FOR WV DEP	ARL	08/14/17	A	ISSUED FOR WV DEP REVIEW	ARL	04/07/17

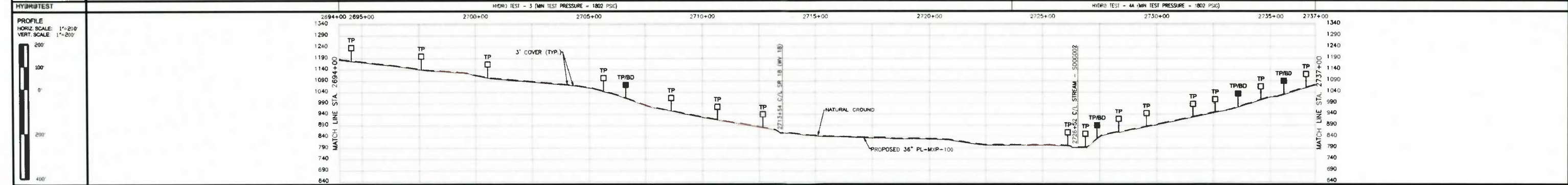
ISSUED FOR
WV DEP PERMIT
09/22/17

PROJECT DELIVERY PROJECT ENGINEERING 1700 MACCORMICK AVENUE SE CHARLOTTE, NC 28205		Columbia Gas Transmission	
MOUNTAINEER XPRESS PROJECT			
TITLE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA			
DRAWN BY	PM	DATE	DRAWING NUMBER
20432		01-19-17	D6987-PYD-004
ISSUED BY			ISSUE
46130			P2

690-059	OWNERSHIP	2694+00	2699+61	2704+00	2709+00	2714+00	2719+00	2724+00	2729+00	2734+00	2737+00		
		561 FEET	561 FEET	561 FEET	561 FEET	561 FEET	561 FEET	561 FEET	561 FEET	561 FEET	561 FEET		
STATIONING		2694+00 MATCH LINE	2699+61 P.L.S. 31°45' 00" BL 2699+61 PROPERTY LINE 2699+64 FENCE, 3" BARRIERS	2704+00	2707+57 FENCE, 3" ELECTRIC 2709+15 BURIED POWER CABLE	2711+47 BURIED POWER CABLE	2713+12 FENCE, 4" HOOD AND BARRIERS 2713+42 EDGE OF ROAD (16' PAVED) 2713+44 EDGE OF ROAD (16' PAVED) 2713+74 FENCE, 4" HOOD AND BARRIERS 2713+74 PROPERTY LINE	2719+99 PROPERTY LINE 2721+56 P.L.S. 11°20' 00" BL	2724+00	2724+05 END SPREAD 3 2724+05 BEGIN SPREAD 4	2725+20 P.L.S. 48°21' 37" BL 2726+00 EDGE OF STREAM - 5000002 2727+40 FENCE, 4" BARRIERS 2727+40 PROPERTY LINE	2728+09 2728+11 FENCE, 4" HOOD AND BARRIERS 2728+19 PROPERTY LINE	2737+00 2737+00 MATCH LINE
ENVIRONMENTAL										STREAM 5000002 (PERENNIAL)			
DEPTH OF COVER													



MATERIAL		2694+00	2699+61	2704+00	2709+00	2714+00	2719+00	2724+00	2729+00	2734+00	2737+00	
SOIL TYPE			GaE	GaD	MuB	MoC	Ka	W	Ka	VeE	GaE	GaF
CLASS LOCATION FOR CONST. PURPOSES					CLASS 1							
DESIGN FACTOR			0.72		0.5			0.72				0.5
HYDRAULIC TEST			HYDRAULIC TEST - 3 (MIN TEST PRESSURE = 1802 PSIG)					HYDRAULIC TEST - 4A (MIN TEST PRESSURE = 1802 PSIG)				



MATERIALS					CASING					INDUCTION BENDS & SEGMENTABLE ELBOWS																
ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	RF-FI	DESCRIPTION	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	RF-FI	
1		36"	0.515"	X70	1688	PIPE																				
2		36"	0.618"	X70	2530	PIPE																				
3		36"	0.750"	X70	2	PIPE																				
4		36"	0.750"	X70	80	PIPE																				
5		36"			3 EA	PIPE																				

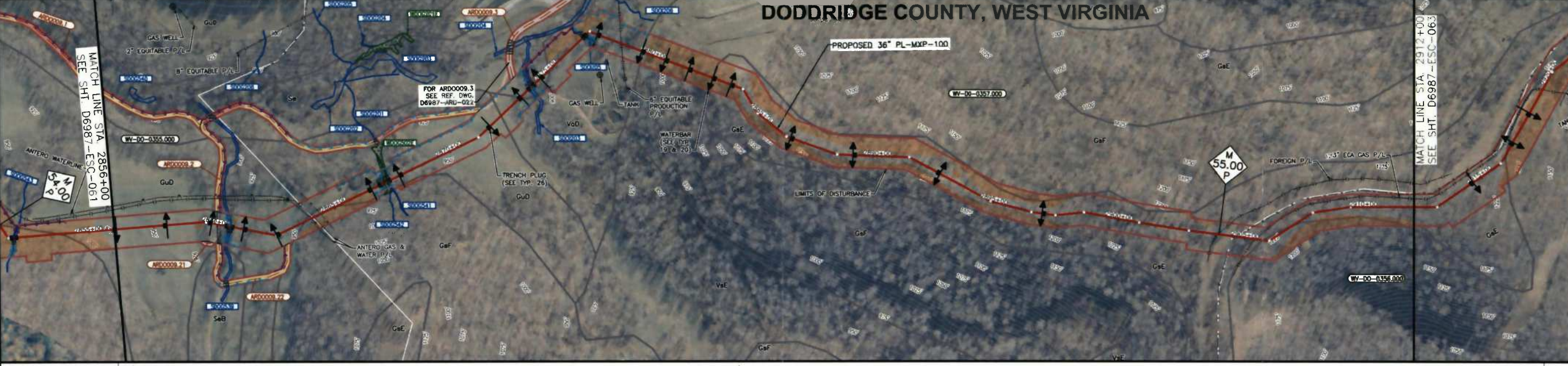
<p>LEGEND</p> <ul style="list-style-type: none"> MILEPOST MXP-100 SHERWOOD LATERAL MXP-200 COUNTY BORDER PROPERTY LINE ACCESS ROAD WETLAND WATERBODY WATERLINE SOIL BOUNDARY PROPERTY TRACT NUMBER FENCE UNDERGROUND CABLE OVERHEAD POWERLINE WATERLINE WATERBAR LIMITS OF DISTURBANCE SILT FENCE SUPER REINFORCED SILT FENCE EROSION CONTROL BLANKET OR HYDROMULCH EQUIPMENT BRIDGE TRENCH PLUG (PLAN) TRENCH PLUG (PROFILE) TRENCH PLUG W/ BLEEDER DRAIN (PROFILE) TEMPORARY DIMENSIONS SIDE SLOPE BLEEDER DRAIN 	<p>SCALE: 1" = 200'</p>	<p>ADDITIONAL NOTES:</p> <p>A. DITCHING SHALL BE INSTALLED ON THE UPDRAIN SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVERT UPDRAIN FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED BY ACCORDANCE WITH TYPICAL DETAILS 48 AND 53. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.</p> <p>B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.</p>
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<p>NOTES:</p> <ol style="list-style-type: none"> PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004. INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004. WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004. HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004. BROAD BASED D.P.S. SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007. ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE. 	<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>REVISIONS</th> <th>APPROVED BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	REVISIONS	APPROVED BY	DATE					<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>REVISIONS</th> <th>APPROVED BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	REVISIONS	APPROVED BY	DATE					<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>REVISIONS</th> <th>APPROVED BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	REVISIONS	APPROVED BY	DATE				
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NO.	REVISIONS	APPROVED BY	DATE																								
NO.	REVISIONS	APPROVED BY	DATE																								

<p>PROJECT DELIVERY PROJECT ENGINEERING</p> <p>Columbia Gas Transmission</p> <p>MOUNTAINEER XPRESS PROJECT</p> <p>PROPOSED 36" PL-MXP-100 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA</p> <p>DATE: 03/03/18</p> <p>DRAWING NUMBER: 20432</p> <p>ISSUE: 46130</p> <p>D6987-ESC-059</p> <p>P7</p>	<p>ISSUED FOR WV DEP PERMIT</p> <p>08/14/17</p>
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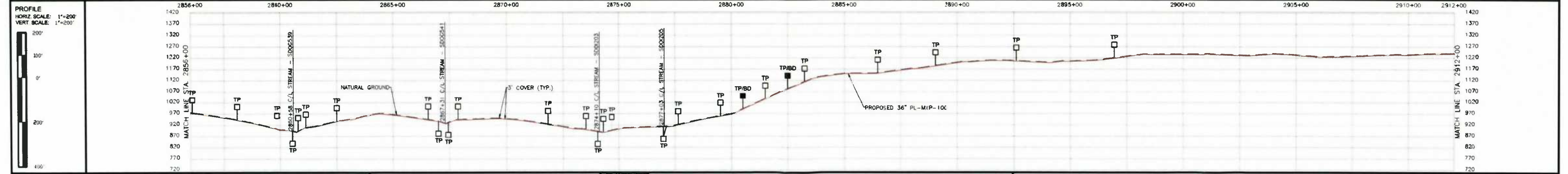
OWNERSHIP	WV-DC-0355-000										WV-DC-0357-000										WV-DC-0356-000									
STATIONING	2856+00 MATCH LINE										4060 FEET										736 FEET									
ENVIRONMENTAL	STREAM S000539 INTERMITTENT										WETLAND W0005026 (PDM) (INTERMITTENT)										STREAM S000205 (EPHEMERAL)									
DEPTH OF COVER	5'										5'										5'									

DODDRIDGE COUNTY, WEST VIRGINIA



NOTES:
 1. STATIONS FOR EROSION CONTROL DEVICES ARE APPROXIMATE. DEVICES WILL BE FIELD VERIFIED AND PLACED UNDER THE OVERSIGHT OF THE ENVIRONMENTAL INSPECTOR.
 2. ENVIRONMENTAL DATA PROVIDED BY OTHERS. ACTUAL LOCATIONS TO BE FIELD VERIFIED.
 3. CONTOURS DERIVED FROM USGS, UNITED STATES ELEVATION DATA (NED) (10M RESOLUTION).
 4. PROFILE ELEVATIONS ARE BASED ON FIELD SURVEY PHOTOGRAMMERY D. BY MAY-NOV 2015.
 5. COORDINATE SYSTEM WEST 8 STATE PLANE SOUTH NAD83, US SURVEY FEET

MATERIAL	Gd										Gf										Gg									
SOIL TYPE	Gd										Gf										Gg									
CLASS LOCATION FOR CONST PURPOSES	CLASS 1																													
DESIGN FACTOR	0.72																													
HYDROTEST	HYDRO TEST - 4A (MIN TEST PRESSURE = 1800 PSIG)																													



MATERIALS						COATINGS						CASING						INDUCTION BENDS & SEGMENTABLE ELBOWS											
ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	AP-FIT														
1		36"	0.515"	270	3260																								
2		36"	0.518"	700	2340																								
3P	SCG	36"			6 FA.																								

NOTES:
 1. PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
 2. INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
 3. WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
 4. HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
 5. BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
 6. ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND:
 WETLAND MATTING: WETLAND MATTING (MXP-100)
 WETLAND MATTING: WETLAND MATTING (LATERAL)
 WETLAND MATTING: WETLAND MATTING (MXP-200)
 WETLAND MATTING: WETLAND MATTING (MXP-300)
 WETLAND MATTING: WETLAND MATTING (MXP-400)
 WETLAND MATTING: WETLAND MATTING (MXP-500)
 WETLAND MATTING: WETLAND MATTING (MXP-600)
 WETLAND MATTING: WETLAND MATTING (MXP-700)
 WETLAND MATTING: WETLAND MATTING (MXP-800)
 WETLAND MATTING: WETLAND MATTING (MXP-900)
 WETLAND MATTING: WETLAND MATTING (MXP-1000)

SCALE: 1" = 200'

ISSUED FOR WV DEP PERMIT
 07/22/17

PROJECT DELIVERY PROJECT ENGINEERING
 COLUMBIA GAS TRANSMISSION

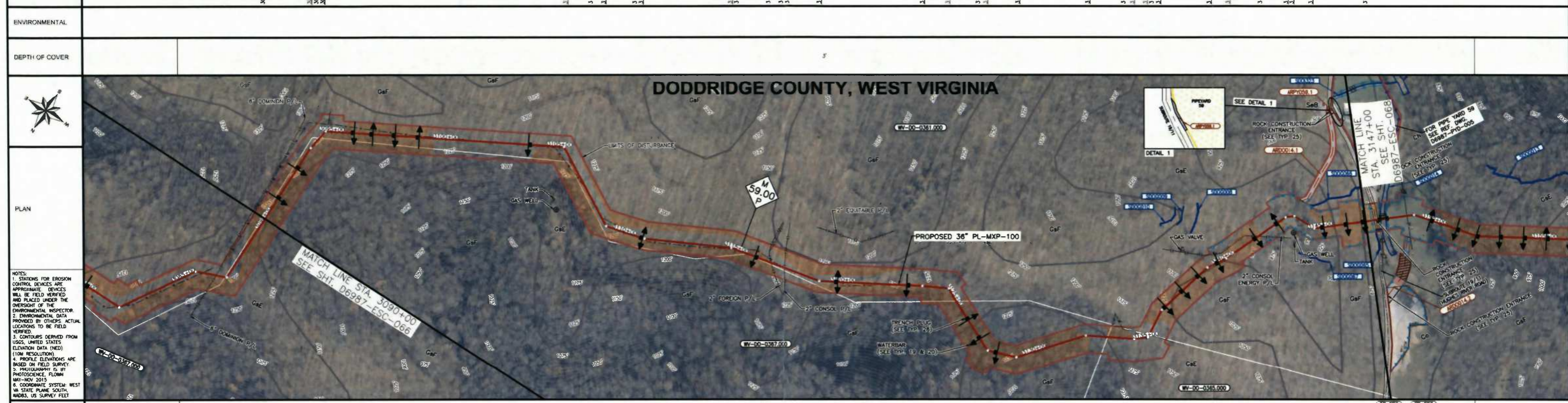
MOUNTAINEER XPRESS PROJECT
 PROPOSED 36" PL-MXP-100 PIPELINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE	03/03/16	DRAWING NUMBER	20432
DATE	04/07/17	DRAWING NUMBER	D6987-ESC-062
DATE	09/22/17	DRAWING NUMBER	46130

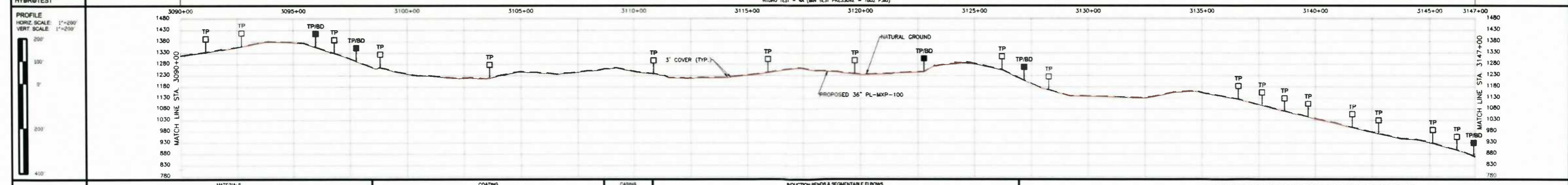
REVISIONS:

No.	REVISIONS	APPROVED BY	DATE
1	ADDED LEGEND/NOTES & BROAD BASE DIP COLOR CHANGE	ARL	09/22/17
2	ISSUED FOR WV DEP REVIEW	ARL	04/07/17

OWNERSHIP	D6987-ESC-067	3090+00	433 FEET	3093 FEET	3125+28	804 FEET	190 FEET	1180 FEET	3147+00
STATIONING		3090+00 MATCH LINE							3147+00 MATCH LINE
ENVIRONMENTAL									
DEPTH OF COVER									



MATERIAL	CR SEG	CR SEG	CR SEG	5310'	CR SEG	CR SEG	CR SEG	CR SEG	CR SEG	CR SEG	CR SEG
SOIL TYPE			GsE		GsE		GsE	GsE	GsE	GsE	GsE
CLASS LOCATION FOR CONST. PURPOSES				CLASS 1							
DESIGN FACTOR				0.72							
HYDRATEST				HYDRO TEST - 4A (MIN TEST PRESSURE = 1800 PSIG)							



ITEM NUMBER	INSERVICE DATE	QTY	UNIT	AMETER	WALL THICKNESS	GRADE	QUANTITY	COATING		DESCRIPTION	TEL	DIAMETER	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	WT. FT
								1	2												
1				0.510			5310			TBE											
2				0.515			390			ADS											
3							10 EA.														

MATERIALS		COATING		CASING		INDUCTION BENDS & SEGMENTABLE ELBOWS									
ITEM NUMBER	INSERVICE DATE	QTY	UNIT	DESCRIPTION	TEL	DIAMETER	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE	RADIUS	COATING	WT. FT

NOTES:

- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
- HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
- BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
- ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND:

- WATERPOST MXP-100
- SHERWOOD LATERAL MXP-200
- ROUTE
- EXISTING COLUMBIA PIPELINE
- FOREIGN PIPELINE
- COUNTY BORDER
- PROPERTY LINE
- ACCESS ROAD
- WATERLINE
- WATERBODY
- FENCE
- UNDERGROUND CABLE
- OVERHEAD POWERLINE
- WATERLINE
- WATERBAR
- LIMITS OF DISTURBANCE
- SALT FENCE
- SUPER REINFORCED SALT FENCE
- SOIL BOUNDARY
- WATERBAR
- MATS
- EROSION CONTROL BLANKET OR HYDROMULCH
- EQUIPMENT BRIDGE
- TRENCH PLUG (PLAN)
- TRENCH PLUG (PROFILE)
- TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)
- TEMPORARY DIVERSIONS
- SIDE SLOPE BLEEDER DRAIN

SCALE: 1" = 200'

ADDED LEGEND/NOTES & BROAD BASE DIP COLOR CHANGE: APR 09/22/17

ISSUED FOR WV DEP REVIEW: APR 04/07/17

NO.	REVISIONS	APPROVED BY	DATE	NO.	REVISIONS	APPROVED BY	DATE

PROJECT DELIVERY PROJECT ENGINEERING

Columbia Gas Transmission

MOUNTAINEER XPRESS PROJECT

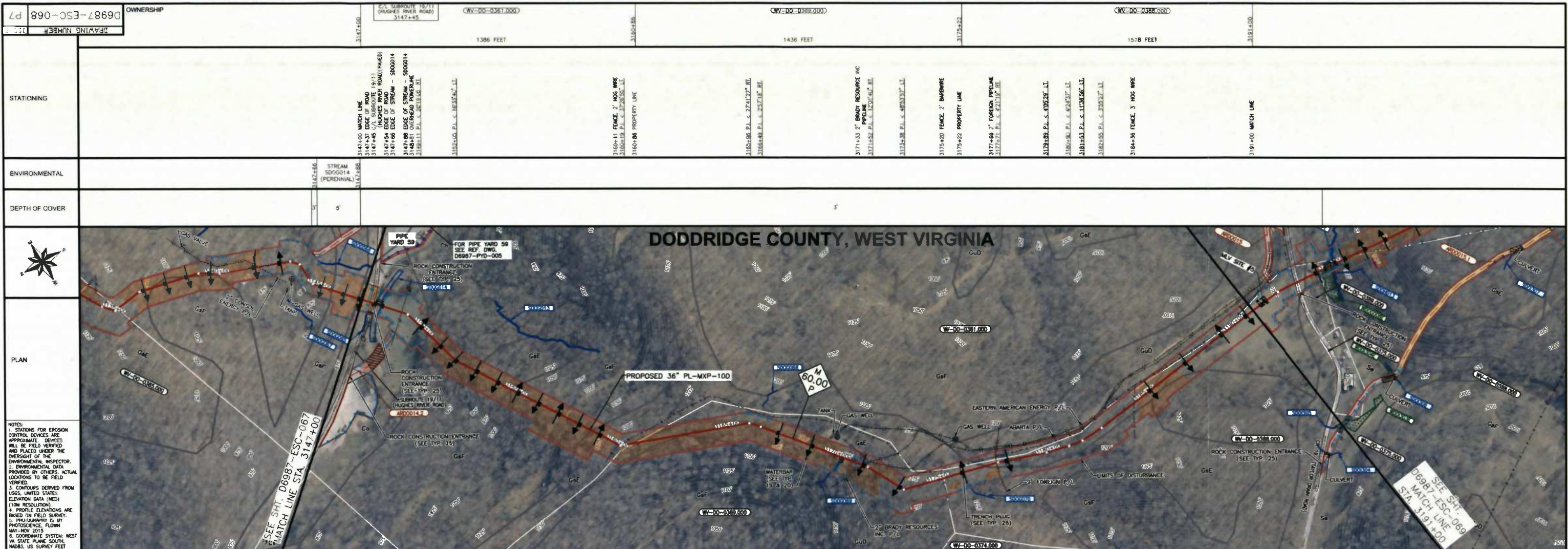
PROPOSED 36" PL-MXP-100 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 03/03/16

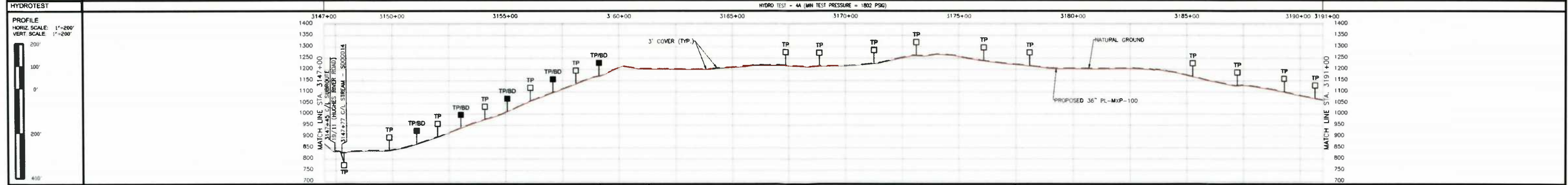
DRAWING NUMBER: D6987-ESC-067

ISSUE: P7

ISSUED FOR WV DEP PERMIT
09/22/17



STATIONING	3147+00	3147+37	3147+45	3147+54	3147+66	3148+01	3148+11	3152+00	3160+11	3160+46	3164+00	3171+33	3171+52	3174+38	3174+42	3177+46	3177+51	3184+36	3191+00	
ENVIRONMENTAL																				
DEPTH OF COVER																				
PLAN	Aerial plan view showing pipeline route, stationing, and site features.																			
NOTES	<p>1. STATIONS FOR EROSION CONTROL DEVICES ARE APPROXIMATE. DEVICES WILL BE FIELD VERIFIED AND PLACED UNDER THE OVERSIGHT OF THE ENVIRONMENTAL INSPECTOR.</p> <p>2. ENVIRONMENTAL DATA PROVIDED BY OTHERS. ACTUAL LOCATIONS TO BE FIELD VERIFIED.</p> <p>3. CONTOURS DERIVED FROM USGS, UNITED STATES ELEVATION DATA (MED) (10M RESOLUTION).</p> <p>4. PROFILE ELEVATIONS ARE BASED ON FIELD SURVEY.</p> <p>5. PHOTOGRAMMETRY IS BY PHOTO SCIENCE, FLOWN MAY-NOV 2015.</p> <p>6. COORDINATE SYSTEM: WEST VA STATE PLANE SOUTH, NAD83, US SURVEY FEET.</p>																			



ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	QUANTITY	DESCRIPTION	CASING		INDUCTION WELDS & SEGMENTABLE ELBOWS						HF-FL				
							TEL	DIAMETER	ITEM NUMBER	INSERVICE DATE	OUTSIDE DIAMETER	WALL THICKNESS	GRADE	DEGREE		RADIUS	COATING		
1		36	0.515	X70	3680'														
2		36	0.818	X70	640'														
3		36	0.750	X70	80'														
					4 EA														

NO.	REVISIONS	APPROVED BY	DATE	NO.	REVISIONS	APPROVED BY	DATE
1				1			

NO.	REVISIONS	APPROVED BY	DATE
1			

NO.	REVISIONS	APPROVED BY	DATE
1			

ISSUED FOR WV DEP PERMIT
09/22/17

PROJECT DELIVERY PROJECT ENGINEERING

Columbia Gas Transmission

MOUNTAINEER XPRESS PROJECT

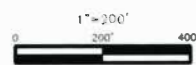
PROPOSED 36" PL-MXP-100 PIPELINE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA

OWNER	HW	DATE	03/03/16	DRAWING NUMBER		ISSUE	
PROJECT NUMBER	20432			D6987-ESC-068			
PROJECT NUMBER	46130						

ACCESS ROAD DETAILS ARDO009.3 1 & 2 OF 2



ACCESS ROAD ARDO009.3 1 of 2
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-062



BROAD-BASE DIP LEGEND*
(SEE NOTE 5)

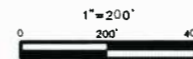
PERCENT SLOPE	DIP SPACING
0-2%	300 FEET
2-5%	150 FEET
5-15%	100 FEET
> 15%	75 FEET
NO BROAD-BASE DIPS REQUIRED	

* SHADED SEGMENTS, UPGRADIENT ROADSIDE DITCHING AND CULVERTS SHALL BE PROVIDED WHERE THE ACCESS ROADS PARALLEL THE CONTOUR WITHIN THE SHADED AREAS IN ACCORDANCE WITH TYPICAL DETAIL 48 AND 93.

ADDITIONAL NOTES:
A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADIENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 48 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.



ACCESS ROAD ARDO009.3 2 of 2
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-062



**ISSUED FOR
WV DEP PERMIT**
09/22/17

NOTES:
1. PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6987-TYP-004.
2. INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
3. WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
4. HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
5. BROAD BASED DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
6. ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

LEGEND		ADDED LEGEND AND NOTES	
	MILEPOST MWP-100		COUNTY BORDER
	MILEPOST SHERWOOD LATERAL MXP-200		FENCE
	ROUTE		UNDERGROUND CABLE
	EXISTING COLUMBIA PIPELINE		OVERHEAD POWERLINE
	FOREIGN PIPELINE		SILT FENCE
	PROPERTY LINE		SUPER REINFORCED SILT FENCE
	ACCESS ROAD		SOL BOUNDARY
	WETLAND		WATERLINE
	WATERBODY		WATERBAR
	PROPERTY TRACT NUMBER		LIMITS OF DISTURBANCE
	MATS		EROSION CONTROL BLANKET OR HYDROMULCH
	EQUIPMENT BRIDGE		TRENCH PLUG (PLAN)
	TRENCH PLUG (PROFILE)		TRENCH PLUG (PROFILE)
	TRENCH PLUG W/BLEEDER DRAIN (PROFILE)		TRENCH PLUG W/BLEEDER DRAIN (PROFILE)

No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE	DWG NO	REFERENCE

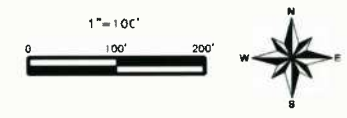
PROJECT DELIVERY PROJECT ENGINEERING		Columbia Gas Transmission	
MOUNTAINEER XPRESS PROJECT			
TITLE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA			
DRAWN BY	PM	DATE	DRAWING NUMBER
		03/17/16	D6987-ARD-022
PROJECT NUMBER	46130	ISSUE	P1

PIPE YARD DETAILS
PIPE YARDS 47, 90 & 90A
ACCESS ROADS ARPY047.1 & ARPY047.2

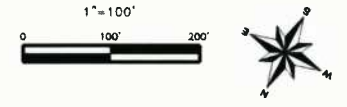
D6987-PYD-004 P2
DRAWING NUMBER



PIPE YARD 47, ARPY047.1 & ARPY047.2
DODDRIDGE CO., WV



PIPE YARD 90 & 90A, ARDO013.1
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-066



ACCESS ROAD
BROAD-BASE DIP LEGEND*
(SEE NOTE 5)

PERCENT SLOPE	DIP SPACING
0-2%	300 FEET
2-5%	150 FEET
5-15%	100 FEET
> 15%	75 FEET
NO BROAD-BASE DIPS REQUIRED	

* SHADED SEGMENTS, UPGRADIENT ROADSIDE DITCHING AND CULVERTS SHALL BE PROVIDED WHERE THE ACCESS ROADS PARALLEL THE CONTOUR WITHIN THE SHADED AREAS IN ACCORDANCE WITH TYPICAL DETAIL 48 AND 93.

ADDITIONAL NOTES:
A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADIENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 48 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

ISSUED FOR
WV DEP PERMIT
09/22/17

- NOTES:**
- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32 AND 33 ON DRAWING D6987-TYP-004.
 - INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
 - WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
 - HYDROMULCH MAY BE USED AS AN ALTERNATIVE TO EROSION CONTROL BLANKET IN SOME INSTANCES. REFER TO TYPICAL 28 ON DRAWING D6987-TYP-004.
 - BROAD-BASE DIPS SHALL BE INSTALLED AT A SPACING CORRESPONDING TO THE COLOR CODING SHOWN ON THE ACCESS ROADS. REFER TO TYPICALS 71 & 72 ON DRAWING D6987-TYP-007.
 - ADDITIONAL WETLAND MATTING AND/OR EQUIPMENT CROSSINGS MAY BE UTILIZED IF FIELD CONDITIONS NECESSITATE THEIR USE FOR CONSTRUCTION OPERATIONS. THE USE OF ADDITIONAL MATTING AND/OR CROSSINGS SHALL BE REVIEWED WITH THE ENVIRONMENTAL INSPECTOR PRIOR TO INSTALLATION. FOR WETLAND MATTING/EQUIPMENT CROSSINGS REFER TO TYPICALS 30-35 ON DRAWING D6987-TYP-004 AS APPLICABLE.

No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE

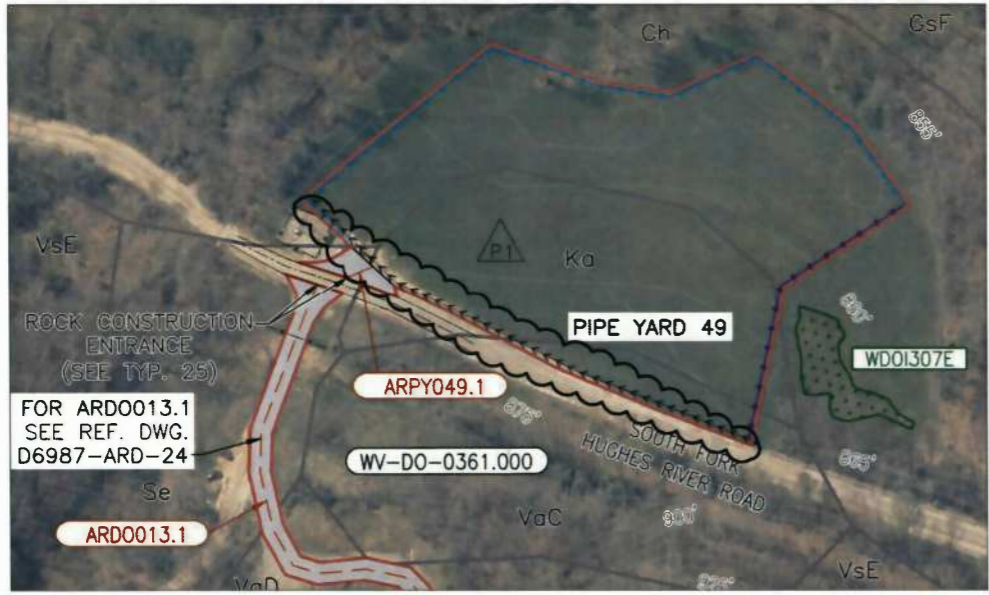
No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE

PROJECT DELIVERY PROJECT ENGINEERING		Columbia Gas Transmission	
MOUNTAINEER XPRESS PROJECT			
TITLE EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA			
DRAWN BY	PM	DATE	DRAWING NUMBER
JHE		01-19-17	D6987-PYD-004
PROJECT NUMBER	46130	ISSUE	P2

PIPE YARD DETAILS

PIPE YARDS 49, 50 & 59

ACCESS ROADS ARPY049.1, ARPY050.1 & ARPY059.1



PIPE YARD 49, ARPY049.1
DODDRIDGE CO., WV

1" = 100'
0 100 200



PIPE YARD 59, ARPY059.1
DODDRIDGE CO., WV
REF. ALIGNMENT: D6987-ESC-068

1" = 100'
0 100 200



PIPE YARD 50, ARPY050.1
DODDRIDGE CO., WV

1" = 100'
0 100 200

ACCESS ROAD BROAD-BASE DIP LEGEND* (SEE NOTE 5)

PERCENT SLOPE	DIP SPACING
0-2%	300 FEET
2-5%	150 FEET
5-15%	100 FEET
> 15%	75 FEET
NO BROAD-BASE DIPS REQUIRED	

ADDITIONAL NOTES:
 A. DITCHING SHALL BE INSTALLED ON THE UPGRADIENT SIDE OF NEW ACCESS ROADS AND EXISTING ACCESS ROADS REQUIRING CONSTRUCTION ACTIVITIES TO CONVEY UPGRADIENT FLOW BENEATH THE ACCESS ROAD VIA CROSS DRAINS. DITCHING AND CROSS DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH TYPICAL DETAILS 40 AND 93. EXTENT AND LOCATION OF DITCHING AND CROSS DRAINS MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION.
 B. IF EXISTING ACCESS ROADS REQUIRE CONSTRUCTION ACTIVITIES, THEN EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAILS.

ISSUED FOR WV DEP PERMIT
09/22/17

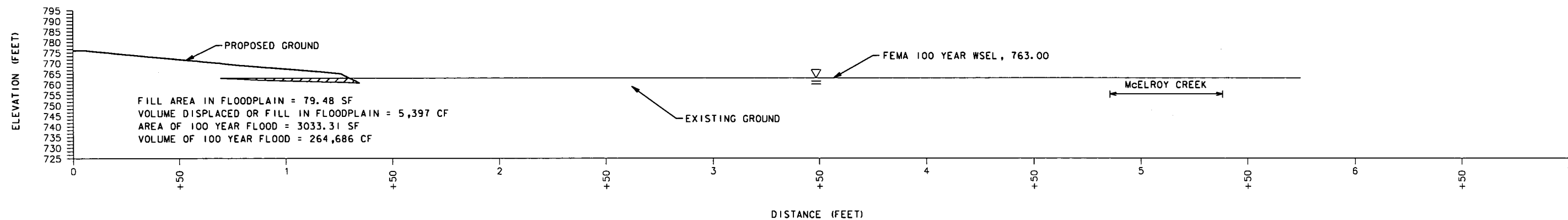
NOTES:

- PERENNIAL STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICALS 30, 31, 32, AND 33 ON DRAWING D6987-TYP-004.
- INTERMITTENT STREAM CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 34 ON DRAWING D6987-TYP-004.
- WETLAND CROSSINGS SHALL BE CONDUCTED IN ACCORDANCE WITH TYPICAL 35 ON DRAWING D6987-TYP-004.
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LEGEND		ADDED LEGEND AND NOTES		REVISED FOR WV DEP		ISSUED FOR BID		ISSUED FOR WV DEP REVIEW	
MILEPOST MKP-100	MILEPOST SHERWOOD LATERAL MKP-200	COUNTY BORDER	FENCE	LIMITS OF DISTURBANCE	MATS	TRENCH PLUG (PLAN)	TEMPORARY DIVERSIONS	TRENCH PLUG (PROFILE)	SIDE SLOPE BLEEDER DRAIN
ROUTE	EXISTING COLUMBIA PIPELINE	PROPERTY LINE	UNDERGROUND CABLE	SILT FENCE	EROSION CONTROL BLANKET OR HYDROMULCH	TRENCH PLUG W/ BLEEDER DRAIN (PROFILE)			
ACCESS ROAD	WETLAND	OVERHEAD POWERLINE	SILVER REINFORCED SILT FENCE	SOL. BOUNDARY	EQUIPMENT BRIDGE				
FORGON PIPELINE	WATERBODY	WATERLINE	WATERBAR	PROPERTY TRACT NUMBER					
No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS	APPROVED BY	DATE	No.	REVISIONS

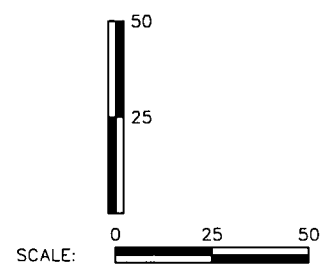
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MOUNTAINEER XPRESS PROJECT							
TITLE: EROSION & SEDIMENT CONTROL PLAN DODDRIDGE COUNTY, WEST VIRGINIA							
DWG. NO.	DATE	DWG. NO.	DATE	DWG. NO.	DATE	DWG. NO.	DATE
0987-ARD-24	03/17/16	0987-ESC-068	20432	0987-ARD-24	03/17/16	0987-ESC-068	20432
			46130				
				D6987-PYD-005		P2	

CROSS SECTION MLV4



NOTES:

1. FLOOD DATA IS BASED ON DODDRIDGE COUNTY FEMA MAP NUMBER 54017C0045C, OCTOBER 4, 2011
2. EXISTING AND PROPOSED GRADE IS BASED ON SURVEY AND LIDAR MAPPING.
3. FEMA 100 YEAR WSEL IS BASED ON FEMA DELINEATED APPROXIMATE BOUNDARY LOCATION AND EXISTING CONTOUR INFORMATION



STAHLSHEAFFER ENGINEERING, LLC

DESIGN PRESSURE ___ PSIG AT ___ 'F (___ DESIGN FACTOR). MAXIMUM HOOP STRESS LEVEL AT ___ PSIG ___ % SMYS. BASED ON ___
 MAMP OF ___ PSIG AT ___ 'F IS LIMITED BY ___
 MINIMUM TEST PRESSURE ___ PSIG. MAXIMUM TEST PRESSURE ___ PSIG
 TEST LIMITED BY ___ TEST PERIOD ___ HOURS.
 TEST MEDIUM ___ SERVICE ___
 NONDESTRUCTIVE INSPECTION REQUIREMENTS ___
 CERTIFICATE TO THE BEST OF MY KNOWLEDGE, ALL COMPONENTS OF THIS DRAWING ARE DESIGNED IN ACCORDANCE WITH APPLICABLE COLUMBIA GUIDELINES AND SPECIFICATIONS.
 DESIGN ENGINEER: ___ DATE: ___
 NOTE: ANY CHANGES TO THE DESIGN SHOWN ON THIS DRAWING MUST BE APPROVED BY THE DESIGN ENGINEER.

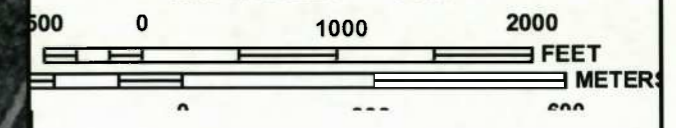
CABELL COUNTY			
MLV4			
FLOODPLAIN CROSS SECTION			
DRAWN BY: SSE	DATE: 12-08-17	DRAWING NUMBER	ISSUE
PROJECT NUMBER: 15-238	SURFACE		0

NO.	REVISIONS	BY	DATE	NO.	REVISIONS	BY	DATE

DWG. NO. REFERENCE



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0045C

FIRM
FLOOD INSURANCE RATE MAP
DODDRIDGE COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 45 OF 325
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0045	C

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
54017C0045C
MAP REVISED
OCTOBER 4, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

CLIENT:	Columbia	JOB NUMBER:	15-238
SUBJECT:	BASE FLOOD ELEVATION EVALUATION - MCELROY CREEK		
MLV4			
BASED ON:	FEMA Flood Insurance Study Number	DRAWING NUMBERS:	
BY:	KMG	CHECKED BY:	
Date:	12/13/17	DATE:	

PURPOSE:

The purpose of this calculation is to evaluate the change in Floodway and base flood elevation (BFE) resulting from the proposed work at the MLV7, Wirt County, West Virginia.

APPROACH:

Determine the proposed percent change in cross-sectional area of the floodway at the proposed grading location. Then, use the flow rate equation to determine the change in velocity based on the proposed change in river cross-sectional area. Finally, relate change in velocity to change in head using the velocity head equation (i.e., part of the energy equation). The change in head describes the change in 100-year floodway elevation due to the proposed development. Then, describe net change in cross-sectional area of the floodplain by comparing the area filled below the BFE to the area cut below the BFE. Because the area is an approximate study area, the FEMA FIS does not contain printed sections therefore sections were taken based on LIDAR and survey mapping.

CALCULATIONS:

Percent Change In Floodplain/BFE Cross-Sectional Area:

$$A_{\text{regrade}} = 79.48 \text{ sq. ft.}$$

$$A_1 = 3033.31 \text{ sq. ft.}$$

Reference:
[Figure]
[Figure]

Where:

A_{regrade} = cross-sectional area change of proposed grading within Floodway

A_1 = cross-sectional area pre-development within Floodway (sq. ft.)

A_2 = cross-sectional area post-development within Floodway (sq. ft.)

$$A_2 = A_1 + A_{\text{regrade}} = 2593.83 \text{ sq. ft.}$$

$$\% \text{ change} = \frac{A_2 - A_1}{A_1} * 100 = 2.62\%$$

Flow Rate Equation:

$$Q_1 = V_1 A_1$$

$$Q_2 = V_2 A_2$$

$$Q_1 = Q_2 = Q$$

Where:

Q_1 = average flow rate pre-development (cfs)

Q_2 = average flow rate post-development (cfs)

V_1 = average velocity pre-development (ft./s)

V_2 = average velocity post-development (ft./s)

A_1 = cross-sectional area pre-development (sq. ft.)

A_2 = cross-sectional area post-development (sq. ft.)

$$\Delta V = V_2 - V_1 = \left(\frac{Q}{A_2} - \frac{Q}{A_1} \right)$$

$$\Delta V = \left(\frac{8300 \text{ cfs}}{2593.83 \text{ sq ft.}} - \frac{8300 \text{ cfs}}{3033.31 \text{ sq ft.}} \right) = 3.19 \text{ fps} - 2.74 \text{ fps}$$

$$\Delta V = 0.45 \text{ fps}$$

[Handbook of Hydrology]

Velocity Head Equation:

$$\Delta h = \frac{1}{2} \times \frac{\Delta V^2}{g}$$

Where:

Δh = proposed change in head (ft.)

ΔV = change in average velocity fps

$$\Delta h = \frac{1}{2} \times \frac{(0.45 \text{ fps})^2}{32.2 \text{ ft./s}^2}$$

$$\Delta h = 0.0031444 \text{ ft (0.03773 inch)}$$

[Handbook of Hydrology]

CONCLUSION:

The proposed grading plan results in a 2.62% decrease in floodway cross-sectional area and negligible increase to the 100-year floodway elevation (i.e., 0.0031444 ft.). Additionally, grading below the BFE results in a net placement of fill (79.48 square feet) within the 100-year floodplain. When compared to the overall cross-sectional area of the entire 100-year floodplain (i.e., smaller cross-sectional area than the surveyed floodway cross-sectional area), grading within the 100-year floodplain results in a negligible increase to the BFE. Therefore, no rise to the BFE or floodway elevations on McElroy Creek will occur as a result of the proposed grading plan.

REFERENCES:

Federal Emergency Management Agency. Flood Insurance Study Doddridge County, West Virginia and Incorporated Areas. Rep. No. 54017CV000A.

Maidment, David R. Handbook of Hydrology. New York: McGraw-Hill, 1993; Energy Equation.

3.1 Hydrologic Analyses

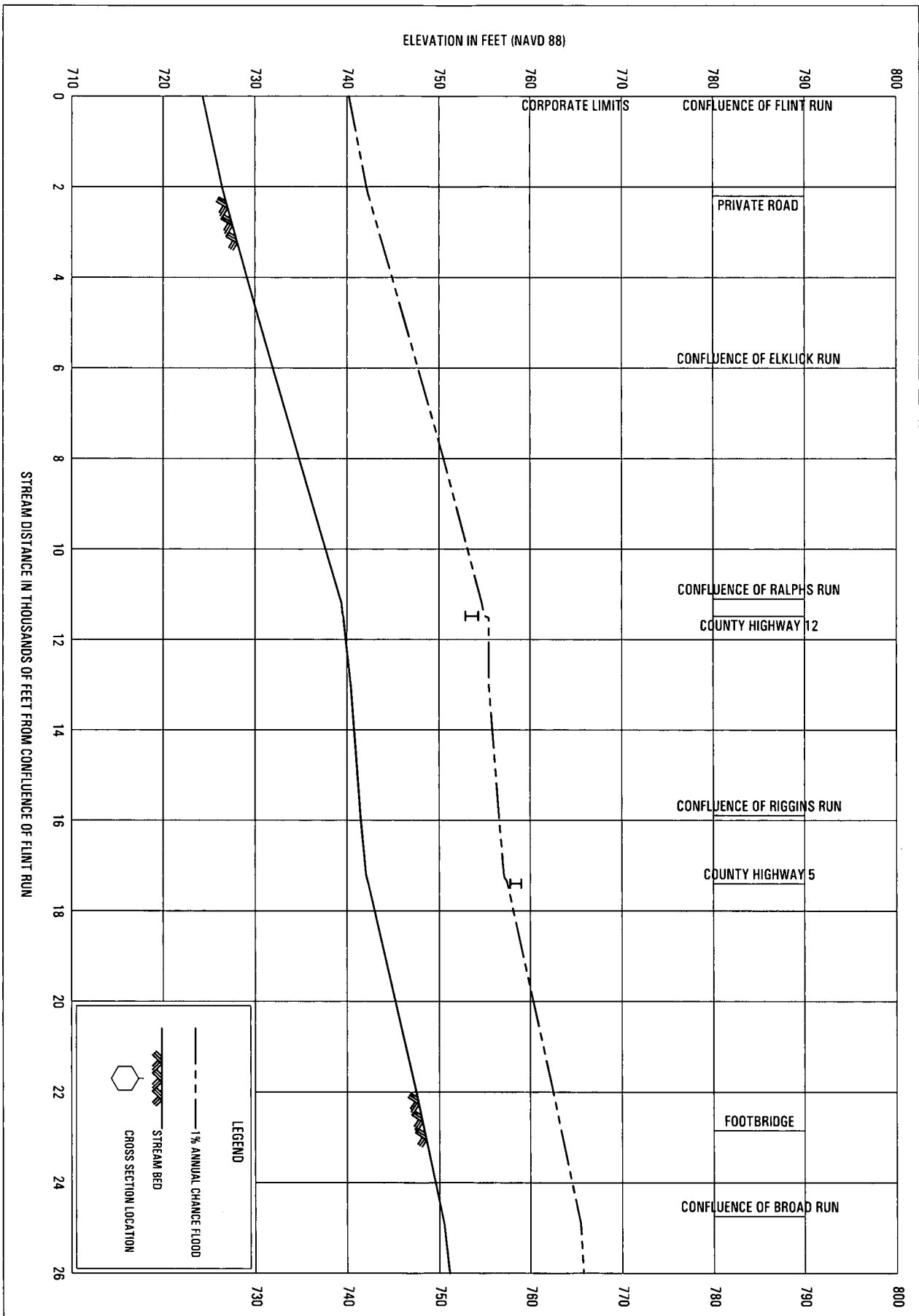
Hydrologic analyses were carried out to establish the peak discharge-frequency relationships for each flooding source studied in detail affecting the county.

Discharge-frequency curves were developed on a regional basis that applies to West Virginia (References 3 and 4). For the streams studied by detailed methods, 1-percent-annual-chance flood elevations were determined through discharge-frequency relations and the Manning equation. Within the Town of West Union, flood elevations were determined through streamflow-station data relationships and the Manning's equation.

Peak discharge-drainage area relationships for each stream studied by detailed methods are presented in Table 2, "Summary of Discharges".

Table 2 – Summary of Discharges

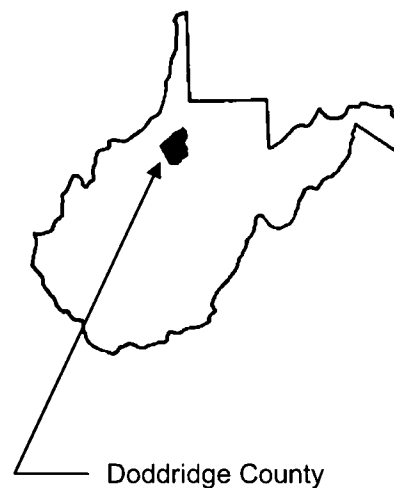
<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (SQ. MILES)</u>	<u>PEAK DISCHARGE (CFS) 1-PERCENT-ANNUAL-CHANCE</u>
MIDDLE ISLAND CREEK		
Upstream of Doddridge-Tyler County boundary	134.78	15,200
Approximately 0.1 mile downstream of confluence of Piggin Run	120.06	13,080
BUCKEYE CREEK		
At confluence with Middle Island Creek	38.62	7,350
Downstream of confluence of Long Run	22.62	5,150
Upstream of confluence of Greenbrier Creek	9.41	3,050
Downstream of confluence of Traugh Fork	1.52	1,310
MEATHOUSE FORK		
At confluence with Middle Island Creek	66.84	9,600
Downstream of confluence of Toms Fork	50.47	8,200
Downstream of confluence of Brushy Fork	29.87	6,050
Downstream of confluence of Laurel Run and Big Isaac Creek	3.76	2,230
MCELROY CREEK		
Upstream of confluence of Flint Run	61.95	9,250
Upstream of confluence of Rigging Run	51.23	8,300
Downstream of confluence of Talkington Fork	39.18	7,100
Downstream of confluence of Robinson Fork and Big Battle Run	20.75	4,900



FLOOD INSURANCE STUDY



DODDRIDGE COUNTY, WEST VIRGINIA AND INCORPORATED AREAS



COMMUNITY NAME

WEST UNION, TOWN OF
DODDRIDGE COUNTY (UNINCORPORATED
AREAS)

COMMUNITY NUMBER

540025
540024

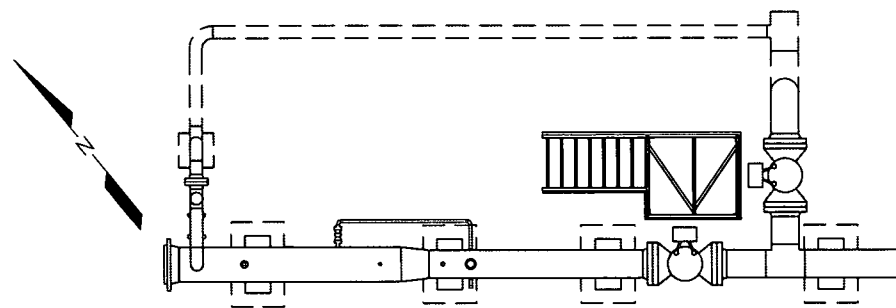


Effective: October 4, 2011

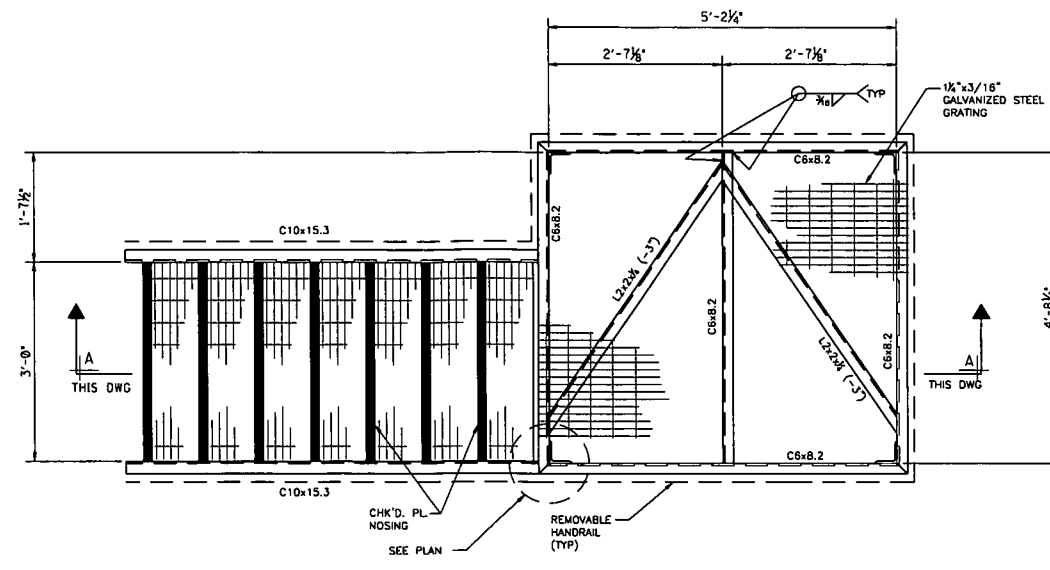
Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
54017CV000A

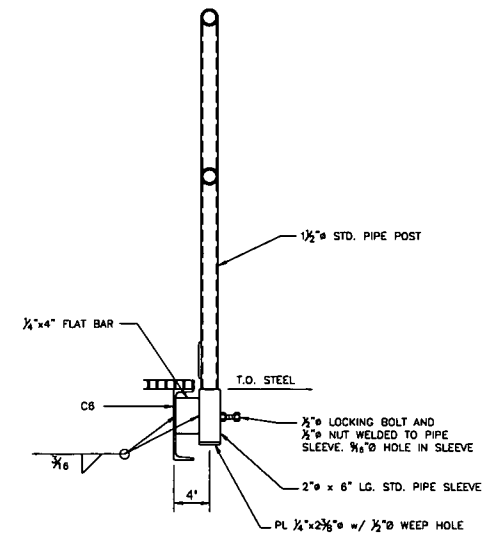
A
B
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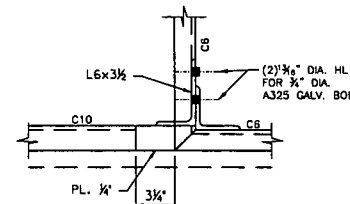
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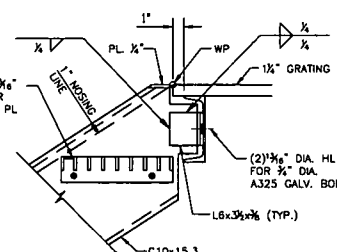
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(1-REQUIRED @ REESE)



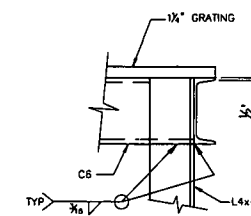
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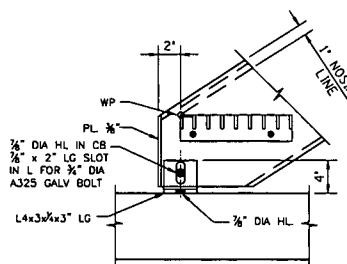
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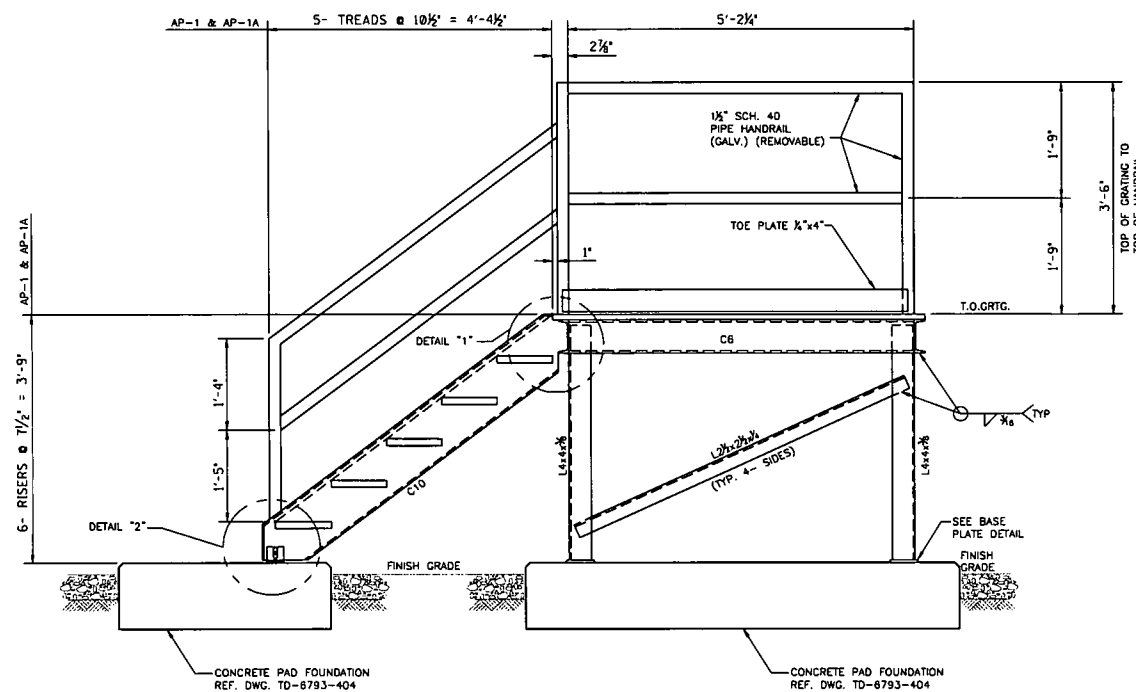
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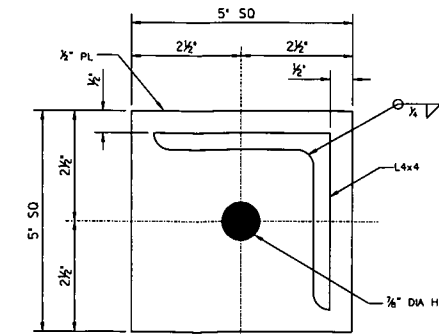
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DETAIL "2"
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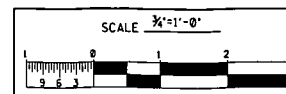
SECTION "A-A"
SCALE: AS NOTED



BASE PLATE DETAIL
SCALE: NONE

- NOTES:
1. FOR CIVIL/STRUCTURAL GENERAL NOTES SEE DWG. TD-6793-CNOTES.
2. FOR LOCATIONS SEE DWG. TD-6793-1105.

ISSUED FOR CONSTRUCTION
02-09-15



DESIGN PRESSURE — PSIG AT — F (— DESIGN FACTOR). MAXIMUM HOOP STRESS LEVEL AT — PSIG — % SMYS. BASED ON —
MAOP OF — PSIG AT — F IS LIMITED BY —
MINIMUM TEST PRESSURE — PSIG. MAXIMUM TEST PRESSURE — PSIG. TEST LIMITED BY — TEST PERIOD — HOURS.
TEST MEDIUM — SERVICE —
NONDESTRUCTIVE INSPECTION REQUIREMENTS —
CERTIFICATE TO THE BEST OF MY KNOWLEDGE, ALL COMPONENTS OF THIS DRAWING ARE DESIGNED IN ACCORDANCE WITH APPLICABLE NCTAS GUIDELINES AND SPECIFICATIONS.
SHAY OWENS 02-09-15
DESIGN ENGINEER DATE
NOTE: ANY CHANGES TO THE DESIGN SHOWN ON THIS DRAWING MUST BE APPROVED BY THE DESIGN ENGINEER.

PROJECT DELIVERY PROJECT ENGINEERING		Columbia Gas Transmission	
LINE 1547			
TITLE STRUCTURAL STEEL ACCESS PLATFORM			
DRAWN BY	TRW	DATE	08-26-14
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TCO W.O. NUMBER:	44054	ISSUE	0

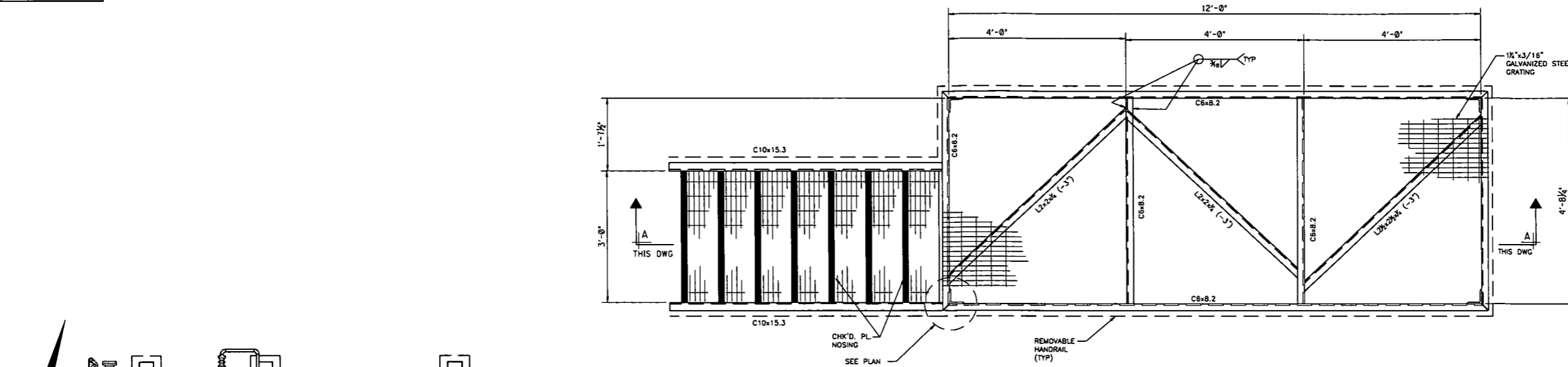
TD-6793-301
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CP CORP

No.	REVISIONS	BY	DATE	No.	REVISIONS	BY	DATE

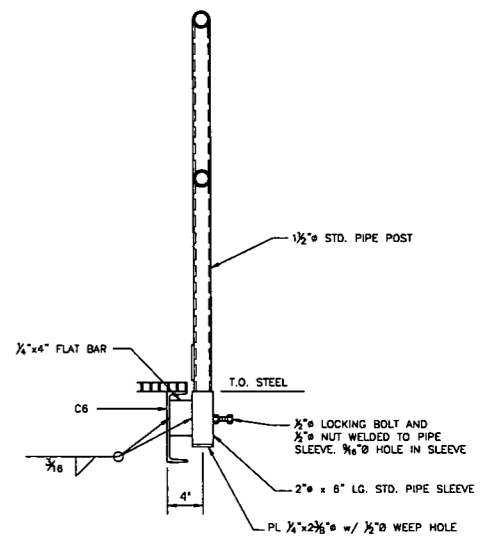
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No.	REVISIONS	BY	DATE

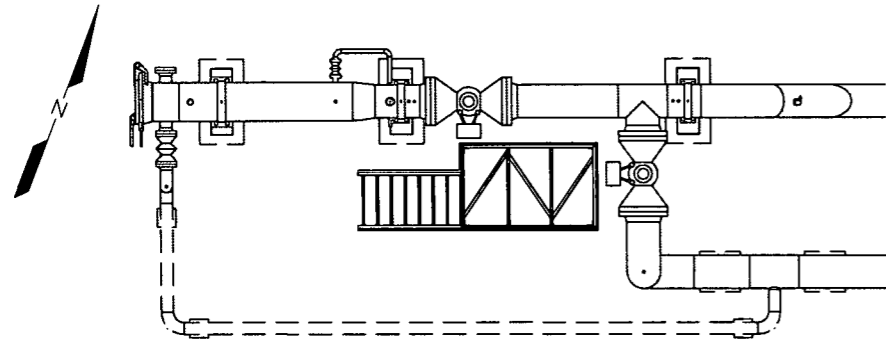
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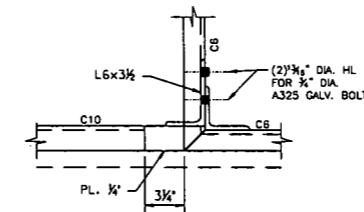
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REF. DWG. TD-8793-1103
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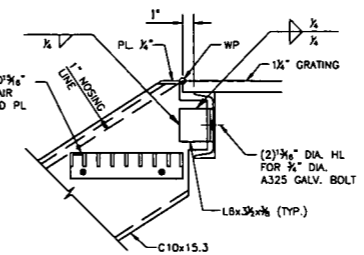
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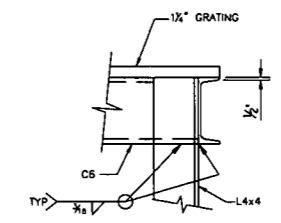
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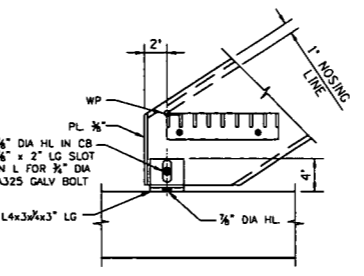
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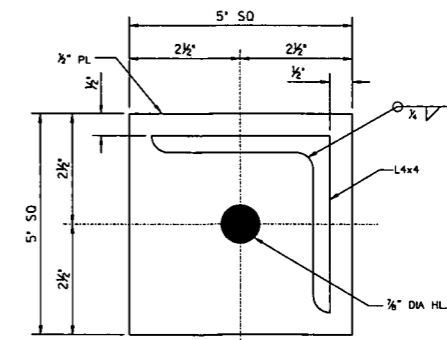
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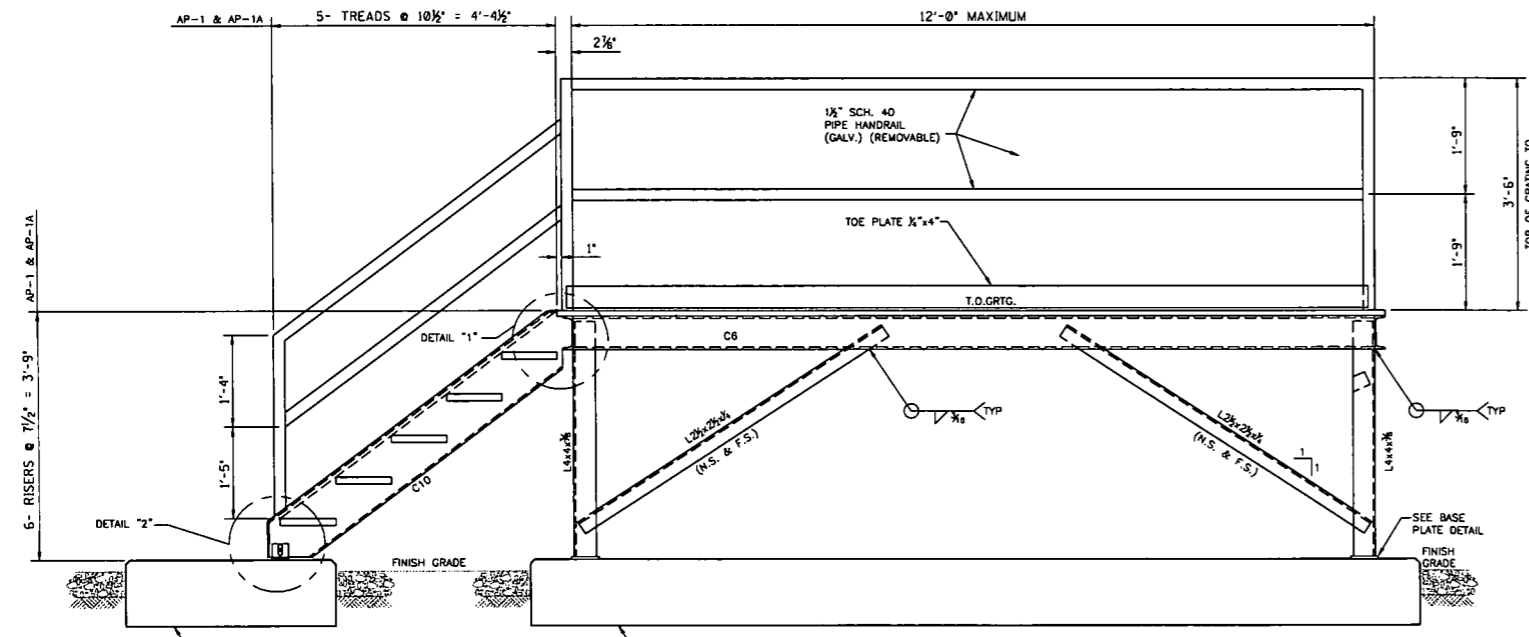
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DETAIL "2"
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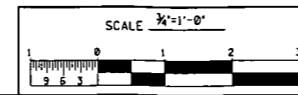
BASE PLATE DETAIL
SCALE: NONE



SECTION "A-A"
SCALE: AS NOTED

- NOTES:
1. FOR CIVIL/STRUCTURAL GENERAL NOTES SEE DWG. TD-8793-CNOTES.
2. FOR LOCATIONS SEE DWG. TD-8793-1103.

ISSUED FOR CONSTRUCTION
02-09-15



DESIGN PRESSURE — PSIG AT — F (— DESIGN FACTOR). MAXIMUM HOOP STRESS LEVEL AT — PSIG — % SMYS. BASED ON MAOP OF — PSIG AT — F IS LIMITED BY MINIMUM TEST PRESSURE — PSIG. MAXIMUM TEST PRESSURE — PSIG. TEST LIMITED BY — TEST PERIOD — HOURS. TEST MEDIUM — SERVICE. NONDESTRUCTIVE INSPECTION REQUIREMENTS —
CERTIFICATE TO THE BEST OF MY KNOWLEDGE, ALL COMPONENTS OF THIS DRAWING ARE DESIGNED IN ACCORDANCE WITH APPLICABLE NOTES GUIDELINES AND SPECIFICATIONS.
SHAY OWENS 02-09-15
DESIGN ENGINEER DATE
NOTE: ANY CHANGES TO THE DESIGN SHOWN ON THIS DRAWING MUST BE APPROVED BY THE DESIGN ENGINEER.

PROJECT DELIVERY PROJECT ENGINEERING		Columbia Gas Transmission	
LINE 1547		STRUCTURAL STEEL ACCESS PLATFORM	
DRAWN BY	TRW	DATE	11-13-14
TCO PROJECT NUMBER:	17959	DRAWING NUMBER	TD-6793-302
TCO W.O. NUMBER:	44854	ISSUE	0

TD-6793-302
B:5/0/00 AM 02/04/2015
CFCOR1

REVISIONS

No.	REVISIONS	BY	DATE	No.	REVISIONS	BY	DATE

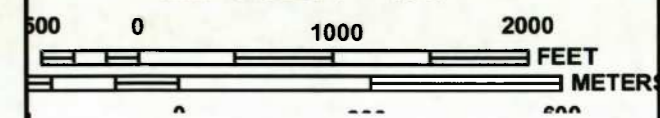
No.	REVISIONS	BY	DATE

No.	REVISIONS	BY	DATE

Dwg. No.	REFERENCE



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0130C

FIRM
FLOOD INSURANCE RATE MAP
DODDRIDGE COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 130 OF 325
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0130	C

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
54017C0130C
MAP REVISED
OCTOBER 4, 2011

Federal Emergency Management Agency

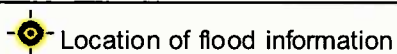
JOINS PANEL 0135

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

WV Flood Map



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.



Location of flood information

User Notes:
ARDO003

— Cross Section (XS) Lines

Base Flood Elevation (BFE) Lines

~ Rule_1

 Floodway

Flood Hazard Zone

 Approximate Study (Zone A)

 Detailed Study (AE, AH, AO)

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Map created on December 15, 2017

Flood Hazard Area:

Flood Hazard Area: Location is WITHIN an advisory floodplain but NOT a regulatory floodplain.

Flood Hazard Zone: Advisory A

Stream: Flint Run

FEMA Issued Flood Map: 54017C0130C

Watershed (HUC8): Little Musringum-Middle Island (503)

Advisory Flood Height: About 799 ft

Water Depth: About 0.6 ft (Source: HEC-RAS)

Elevation: About 796 ft

Location (long, lat): (80.693985 W, 39.341920 N)

Location (UTM 17N): (526371, 4354765)

Contacts: Doddridge

CRS Information: N/A

Flood Profile: N/A

HEC-RAS Model: Flint Run

Parcel Number: 09-03-0009-0009-0000

Property Owners

APN	APN2	OWNER	ADDR	CITY	STATE	ZIP	Tract Nu 1	County
05-11-23.2	05-11-00230002.6001	Mayle, Sarah L.	ST RT 23	CENTER POINT	WV	26339	WV-DO-0034.000	Doddridge
05-11-17.1	05-11-00170001	Lemasters, James Michael	ST RT 23-ASHLEY	CENTER POINT	WV	26339	WV-DO-0045.002	Doddridge
05-11-18	05-11-00180000	Ash, Terry	ST RT 23 ASHLEY	CENTER POINT	WV	26339	WV-DO-0045.005	Doddridge
05-11-17.3	05-11-00170003	Kimball, Donald C. & Mary K.		CENTER POINT	WV	26339	WV-DO-0045.003	Doddridge
06-4-24	06-4-00240000	Bowyer, David E.	BLANDVILLE ROUTE 18	NEW MILTON	WV	26411	WV-DO-0299.026	Doddridge
06-3-6	06-3-00060000	Bowyer, David E.	OFF ST RT 18	WEST UNION	WV	26456	WV-DO-0282.002	Doddridge
06-1-6	06-1-00060000	Columbia Gas	ST RT 18	WEST UNION	WV	26456	WV-DO-0302.001	Doddridge
08-13-16.5	08-13-00160005	Wasmer, Rodney L. & Deanna C.		WEST UNION	WV	26456	WV-DO-0250.001	Doddridge
08-13-16.3	08-13-00160003	Hall Drilling LLC	BUCKEYE FK OF M I C K	WEST UNION	WV	26456	WV-DO-0249.002	Doddridge
03-9-19	03-9-00190000	Yerkey, Ronald & Debra	ROUTE 3	SMITHBURG	WV	26436	WV-DO-0157.000	Doddridge
05-11-34	05-11-00340000	Glaspell, Shawn A. & LaRessa A.	RT 5 RIGGINS RUN RD	CENTER POINT	WV	26339	WV-DO-0053.000	Doddridge
03-9-9	03-9-00090000	Yerkey, Ronald & Debra	ROUTE 3	SMITHBURG	WV	26436	WV-DO-0158.000	Doddridge
07-5-7	07-5-00070000	Dominion Transmission, Inc.	ROUTE 23	WEST UNION	WV	26456	WV-DO-0368.000	Doddridge
08-23-2	08-23-00020000	The Mary H. Holland Revocable Living Trust	ROUTE 4	WEST UNION	WV	26456	WV-DO-0355.000	Doddridge
06-3-1	06-3-00010000	Spiker, Sue Ann	OFF RT 18-MEAT HOUSE FORK	WEST UNION	WV	26456	WV-DO-0302.000	Doddridge
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06-3-7.1	06-3-00070001	Davis, Kelly & Denise	RT 18-BLANDVILLE	WEST UNION	WV	26456	WV-DO-0297.000	Doddridge
07-10-2	07-10-00020000.6002	Morris, I. L.	ROUTE 23	NEW MILTON	WV	26411	WV-DO-0361.000	Doddridge
03-16-15	03-16-00150000	Leatherman, Delbert E. & Stephanie	RT 20 MORGAN S RUN RD	WEST UNION	WV	26456	WV-DO-0216.000	Doddridge
07-5-8	07-5-00080000	Dominion Transmission	ROUTE 23	WEST UNION	WV	26456	WV-DO-0366.000	Doddridge
06-1-9	06-1-00090000	Maxwell, Robert S. & Mildred	STAR RT 18	WEST UNION	WV	26456	WV-DO-0256.001	Doddridge
03-6-26.4		Murphy, Pamela I. & Gregory V., Sr.					WV-DO-0010.002	Doddridge
		WV Department of Highways					WV-DO-0236.000	Doddridge
06-8-37	06-8-00370000.3002	Phillips, Ruth E.	ROUTE 18	NEW MILTON	WV	26411	WV-DO-0299.014	Doddridge
06-8-14	06-8-00140000	Bowyer, David E.		NEW MILTON	WV	26411	WV-DO-0299.039	Doddridge
06-8-4	06-8-00040000	J. H. Lowther Heirs	NEW MILTON RT 1 RT 18	NEW MILTON	WV	26411	WV-DO-0299.027	Doddridge
06-12-19.1	06-12-00190001	Davis, Dorothy Mae	ROUTE 25	NEW MILTON	WV	26411	WV-DO-0299.038	Doddridge
06-1-7.11	06-1-00070011	Hamilton, William & Linda	OFF RT OFF ROUTE 50/16	WEST UNION	WV	26456	WV-DO-0302.005	Doddridge
07-4-20	07-4-00200000	Stansberry, George	290 Sugar Run Road	West Union	WV	26456	WV-DO-0394.000	Doddridge
07-4-21	07-4-00210000	Stansberry, George	290 Sugar Run Rd.	West Union	WV	26456	WV-DO-0395.000	Doddridge
5-11-14.2		Travis, Jason	ST RT 23 & RT 5	CENTER POINT	WV	26339	WV-DO-0051.001	Doddridge
06-1-6	06-1-00060000	Columbia Gas	ST RT 18	WEST UNION	WV	26456	WV-DO-0302.001-CS	Doddridge

Floodplain Permit Application

For the installation of:

Mountaineer Xpress Project

Natural Gas Transmission Facilities
Doddridge County, West Virginia

Prepared for:



Columbia Pipeline Group
700 Louisiana Street
Houston, TX 77002

Submitted by:

Stahl Sheaffer Engineering, LLC
5000 Waterdam Plaza, Suite 120
McMurray, PA 15317

December, 2017

Table of Contents

Permit Contents

Floodplain Permit Application

Description of Work Narrative

Project Mapping

- FEMA Floodplains and Flood Hazard Areas
- Erosion and Sediment Pollution Control Plan sheets for areas within regulated floodplains
- Site Specific Plan Maps for Permanent Facilities in Floodplains

Property Owners

Floodplain Permit Application

LETTER OF TRANSMITTAL

STAHL SHEAFFER ENGINEERING

5000 Waterdam Plaza Drive, Ste. 120, McMurray, PA 15317
 Phone: 724-960-1111 Fax: 724-960-1162

**TO: Doddridge County Office of Emergency
 Services**
 118 E. Court Street, Room 102
 West Union, WV 26456

DATE: December 21, 2017
PROJECT: Mountaineer XPress Project
ATTENTION: George Eidel
RE: Floodplain permits for pipeline transmission facilities

- WE ARE SENDING YOU:**
- | | | | | |
|---|---------------------------------------|---|--|---|
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Prints | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Copy of Letter | <input type="checkbox"/> Change Order | <input checked="" type="checkbox"/> Other | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under |

COPIES	DATE	DWG. NO.	DESCRIPTION
1	December 2017		Doddridge County Revised FEMA floodplain Maps
1	December 2017		Updated list of Doddridge County property owners within the floodplains of project workspaces and adjacent properties
1	December 2017		Project Permit Status Table and Approved permits

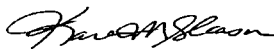
THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> For Approval | <input type="checkbox"/> Approved as Submitted | <input type="checkbox"/> Resubmit copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return corrected prints |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Other: | |

REMARKS: Dear Mr. Eidel: As requested, enclosed are the revised property owner list which includes adjacent Properties upstream and downstream. Also enclosed for your reference is a copy of the approved permits for the project. Should you have any questions or need additional information, please do not hesitate to call me at 724-960-1111 or email kgleason@sse-llc.com.

Thank you,
 Karen

15-238 File
COPY TO: doddridgecountyfpm@gmail.com

SIGNED: 
 Karen M. Gleason

OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP	Latitude	Longitude
Right of Way Corridor							
1	Ash, Terry	57 Breezy Lane Blvd.	Fairmont	WV	26554	39.405053	-80.679946
2	BOWYER DAVID E	12088 Middle Island Road	Alma	WV	26320	39.260328	-80.724106
4	Spiker, Sue Ann	166 Linden Lane	Jane Lew	WV	26378	39.260413	-80.727356
5	WV Railroad Maintenance Authority	P.O. Box 470	Moorefield	WV	26836	39.285818	-80.710134
6	Maxwell, Robert S. & Mildred	3556 Nevada Street	Allentown	PA	18103	39.260516	-80.727854
7	WV Department of Highways	624 Depot Street	Parkersburg	WV	26101	39.286083	-80.710198
8	Bowyer, David E.	12088 Middle Island Road	Alma	WV	26320	39.23474	-80.696763
9	J. H. Lowther Heirs	2017 8th Avenue	Moorehead	MN	56560	39.234702	-80.696153
11	Hamilton, William & Linda	1648 Snowbird Road	West Union	WV	26456	39.269164	-80.72808
13	Yerkey, Ronald & Debra	37 McMillan Farm Road	West Union	WV	26456	39.342124	-80.694874
14	Glaspell, Shawn A. & LaRessa A.	5512 Riggins Run Road	West Union	WV	26456	39.395175	-80.687188
15	Yerkey, Ronald & Debra	37 McMillan Farm Road	West Union	WV	26456	39.341476	-80.694705
18	Yerkey, Ronald & Debra	37 McMillan Farm Road	West Union	WV	26456	39.343535	-80.696555
19	Davis, Kelly & Denise	4160 WV Route 18 South	West Union	WV	26456	39.250278	-80.711296
21	Dominion Transmission	ROUTE 23	WEST UNION	WV	26456	39.203108	-80.831703
22	Columbia Gas	1700 MacCorkle AVE SW	Charleston	WV	25314	39.268098	-80.730785
23	Columbia Gas	1700 MacCorkle AVE SW	Charleston	WV	25314	39.269193	-80.728464
24	Columbia Gas	1700 MacCorkle AVE SW	Charleston	WV	25314	39.270586	-80.73059
25	Davis, Dorothy Mae	5190 Port Tobacco Road	Nanjemoy	MD	20662	39.211042	-80.67896
26	Davis, Dorothy Mae	5190 Port Tobacco Road	Nanjemoy	MD	20662	39.212539	-80.678061
27	Columbia Gas	ST RT 18	WEST UNION	WV	26456	39.268098	-80.730785
28	Columbia Gas	ST RT 18	WEST UNION	WV	26456	39.269193	-80.728464
29	Columbia Gas	ST RT 18	WEST UNION	WV	26456	39.270586	-80.73059
30	Dominion Transmission, Inc.	ROUTE 23	WEST UNION	WV	26456	39.202099	-80.83131
31	Dominion Transmission, Inc.	ROUTE 23	WEST UNION	WV	26456	39.203036	-80.831472
32	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.238917	-80.765382
33	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.2424	-80.763401
34	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.245263	-80.758189
35	Morris, I. L.	P.O. Box 397	Glenville	WV	26351	39.202175	-80.830589
36	Morris, I. L.	P.O. Box 397	Glenville	WV	26351	39.203426	-80.831771
Pipe Yards							
1	Mayle, Sarah L.	ST RT 23	CENTER POINT	WV	26339	39.394486	-80.70526
2	Lemasters, James Michael	666 Elk Lick Run	West Union	WV	26456	39.406374	-80.681237
3	Kimball, Donald C. & Mary K.	13527 Route 23 N	West Union	WV	26456	39.406232	-80.682142
4	Travis, Jason	14305 WV Route 23	West Union	WV	26456	39.397949	-80.693751
5	Ash, Terry	57 Breezy Lane Blvd.	Fairmont	WV	26554	39.405388	-80.679553
6	Ash, Terry	57 Breezy Lane Blvd.	Fairmont	WV	26554	39.405986	-80.680882
8	Spiker, Sue Ann	166 Linden Lane	Jane Lew	WV	26378	39.259491	-80.725528
9	Spiker, Sue Ann	166 Linden Lane	Jane Lew	WV	26378	39.259838	-80.726927
10	Stansberry, George	290 Sugar Run Road	West Union	WV	26456	39.203675	-80.865743
11	Morris, I. L.	P.O. Box 397	Glenville	WV	26351	39.19547	-80.80671
12	Morris, I. L.	P.O. Box 397	Glenville	WV	26351	39.200762	-80.828668
13	Stansberry, George	290 Sugar Run Road	West Union	WV	26456	39.201806	-80.867429
14	Stansberry, George	290 Sugar Run Road	West Union	WV	26456	39.203438	-80.866595
Access Roads							

OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP	Latitude	Longitude
1	Mayle, Sarah L.	ST RT 23	CENTER POINT	WV	26339	39.394634	-80.705334
2	Bowyer, David E.	12088 Middle Island Road	Alma	WV	26320	39.243095	-80.693951
3	Phillips, Ruth E.	1739 Pear Street	Harrisonburg	VA	22801	39.225876	-80.697738
4	Wasmer, Rodney L. & Deanna C.	2220 Coralthorn Road	Middle River	MD	21220	39.288062	-80.713453
5	Hall Drilling LLC	981 Washington Avenue	Ellenboro	WV	<Null>	39.28823	-80.713918
6	Yerkey, Ronald & Debra	37 McMillan Farm Road	West Union	WV	26456	39.341681	-80.694688
7	Yerkey, Ronald & Debra	37 McMillan Farm Road	West Union	WV	26456	39.340734	-80.693753
8	Dominion Transmission, Inc.	ROUTE 23	WEST UNION	WV	26456	39.202767	-80.83119
11	Leatherman, Delbert E. & Stephanie	3009 Dogwood Road	Bridgeport	WV	26330	39.286658	-80.689312
12	Murphy, Pamela I. & Gregory V., Sr.					39.348342	-80.700428
13	WV Department of Highways	624 Depot Street	Parkersburg	WV	26101	39.288368	-80.714272
14	Stansberry, George	290 Sugar Run Road	West Union	WV	26456	39.203753	-80.864617
15	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.232618	-80.764108
16	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.237495	-80.76483
17	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.239475	-80.76505
18	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.24249	-80.763631
19	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.242549	-80.763914
20	The Mary H. Holland Revocable Living Trust	225 Watchung Rd	Westfield	NJ	7090	39.242335	-80.760569
21	Morris, I. L.	P.O. Box 397	Glenville	WV	26351	39.195699	-80.805696
22	Morris, I. L.	P.O. Box 397	Glenville	WV	26351	39.19584	-80.805488
23	Morris, I. L.	P.O. Box 397	Glenville	WV	26351	39.203023	-80.831158

Upstream and Downstream Adjacent Property Owners in Doddridge County					
OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP
11874	ADRIAN GEORGE W & BARBARA B & (SURV)	ST RT 18	WEST UNION	WV	26456
11918	Antero Resources	1615 WYNKOOP ST	DENVER	CO	80802
11873	BARTEE LILLIAN R	3972 WV RT 18 S	WEST UNION	WV	26456
11929	BIG "D" ENTERPRISES LLC	P O BOX 351	SALEM	WV	26426
11879	BLAND ROBERT C & ARLENE R & (SURV)(LIFE)	4101 WV RT 18 S	WEST UNION	WV	26456
11880	BLAND ROBERT C & ARLENE R & (SURV)(LIFE)	4101 WV RT 18 S	WEST UNION	WV	26456
11893	Blandville ME Church	RT 18-BLANDVILLE	WEST UNION	WV	26456
11868	BLAZER JACK N & JOAN MAY & DICKERSON (SURV)	5938 WV RT 18	NEW MILTON	WV	26411
11869	BLAZER JACK N & JOAN MAY & DICKERSON (SURV)	5938 WV RT 18	NEW MILTON	WV	26411
11870	BLAZER JACK N & JOAN MAY & DICKERSON (SURV)	5938 WV RT 18	NEW MILTON	WV	26411
11915	BLESSING KATHRYN RENEE	69 BLESSING LN	WEST UNION	WV	26456
11856	BLEVINS WILLIAM H & WANDA S (SURV)	141 CHESTERWOOD LN	STAFFORD	VA	22556
11909	BONNELL ARNOLD LEE	5095 RIGGINS RUN RD	SALEM	WV	26426
11910	BONNELL ARNOLD LEE	5095 RIGGINS RUN RD	SALEM	WV	26426
11896	BOWYER DAVID E	12088 MIDDLE ISLAND RD	ALMA	WV	26320
11937	Boyce, Kevin & Edna	4911 SMITHTON RD	WEST UNION	WV	26456
11938	Boyce, Kevin & Edna	4911 SMITHTON RD	WEST UNION	WV	26456
11924	Brian & Dawn McMillan	2748 WYLIE RIDGE RD	WEIRTON	WV	26062
11850	BURLESON TODD A & MICHELLE L & (SURV)	RT 21 RT 23	WEST UNION	WV	26456
11944	CNG Transmission Corp	PITTSBURGH	PA	15221	26456
11876	COGAR LINDA	3640 WV RT 18	WEST UNION	WV	26456
11933	Cone Gathering LLC	1000 CONSOL ENERGY DR	CANONSBURG	PA	15317
11861	Conner, Clarence & Dawn	61 BEAGLE DR	WEST UNION	WV	26456
11866	Cox, Denver & Mary Beth	NEW MILTON R 18	SMITHBURG	WV	26436
11926	DAVIS DEANNA & WILLIAM (SURV)	5891 BIG FLINT RD	WEST UNION	WV	26456
11925	Davis, Jason	PO BOX 249	WEST UNION	WV	26456
11922	Dawn & Brian McMillan	2748 WYLIE RIDGE RD	WEIRTON	WV	26062
11891	Denise W. Davis	181 DAVIS FARM LN	NEW MILTON	WV	26411
11886	Dennis & Glenda Kelley	2633 ELDERSVILLE RD	FOLLANSBEE	WV	26037
11884	Dennis and Glenda Kelley	2633 ELDERSVILLE RD	FOLLANSBEE	WV	26037
11894	DODDRIDGE CO COURT	108 Court St. #4	WEST UNION	WV	26456
11905	DOTSON FREDERICK GREGORY, & CHARLES A & MICHELLE E	SMITHBURG OFF ROUTE 50 16	WEST UNION	WV	26456
11921	DUFFELMEYER WILLIAM M & MELISSA J (SURV)	125 RIGGINS RN	WEST UNION	WV	26456

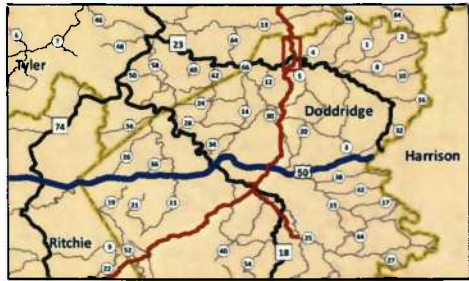
Upstream and Downstream Adjacent Property Owners in Doddridge County					
OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP
11864	E. S. Childers (Heirs)	3335 CASANEA CT	HUNTINGTOWN	MD	20639
11945	FETTY CHARLES A	5242 ROCK RUN RD	WEST UNION	WV	26456
11930	FOUT NANCY LLC	ENGLANDS RUN	WEST UNION	WV	26456
11881	GAGNON GEORGE L	ROUTE 18	WEST UNION	WV	26456
11858	GAIN DONZIL A & MARY T (SURV)		BRIDGEPORT	WV	26330
11940	George R. Gore	5116 SMITHTON RD	WEST UNION	WV	26456
11947	Gerald Brunner				
11908	GETZ DAVID C & TWYLLA J & (SURV)	13147 WV RT 23N	WEST UNION	WV	26456
11916	GETZ DAVID C & TWYLLA J & (SURV)	13147 WV RT 23N	WEST UNION	WV	26456
11913	GLASPELL MARY LEE	14723 WV ROUTE 23	WEST UNION	WV	26456
11855	GRIFFITH WILLIAM & RONALD & (SURV)	366 CHICKEN FARM RD	CLARKSBURG	WV	26301
11860	Heaster, Charles & Patsy	2898 PUNKIN CENTER RD	WEST UNION	WV	26456
11919	HEINTZELMAN EVELYN & RONALD E & SR & JUDITH L COLL	ROUTE 3	CENTER POINT	WV	26339
11920	HEINTZELMAN EVELYN & RONALD E & SR & JUDITH L COLL	ROUTE 3	CENTER POINT	WV	26339
11851	HENDERSON JUSTIN L (LIFE)	190 SAPPHIRE LN	MEADOWBROOK	WV	26404
11895	HYDE WILLIAM J & RITA I & (SURV)	1273 SNOWBIRD RD	WEST UNION	WV	26456
11888	James A. and Angela J. Bland	4061 WV RT 18 S	WEST UNION	WV	26456
11935	Jamie & Ronald Hass	4061 WV RT 18	WEST UNION	WV	26456
11948	John McMillan	4131 WADSWORTH RD	NORTON	OH	44203
11939	JONES CHARLES EDWARD	RT 50/22	WEST UNION	WV	26456
11890	K. Todd and Kimberly Bland Revocable Trust	RT 18-BLANDVILLE	WEST UNION	WV	26456
11867	Keplinger, Dale W. II & Melissa	82 TRIPLE J RD	GASSAWAY	WV	26624
11859	Lahreche, Tanya		WEST UNION	WV	26456
11897	LAMB VALERIE A	ROUTE 18	WEST UNION	WV	26456
11934	LEATHERMAN DONNA	627 MORGANS RUN RD	WEST UNION	WV	26456
11906	MCCLAIN JOHN H	ST RT 23-ASHLEY	CENTER POINT	WV	26339
11932	MCKINNEY KAREN IRENE SUE	1352 MILETUS RD	SALEM	WV	26426
11946	MCMILLAN GARY L & JEFFREY LYNN & (SURV)	20 FELIX DR	WEST UNION	WV	26456
11904	MORRIS I L (IKE)	ST RT 18	WEST UNION	WV	26456
11863	Nestor, Laura L.	ROUTE 25	NEW MILTON	WV	26411
11853	NICHOLSON ARGIL WAINE	126 PUMPKIN LN	WEST UNION	WV	26456
11898	NICHOLSON ROGER & NORA ANN & (SURV)	1513 SNOWBIRD RD	WEST UNION	WV	26456
11883	Norma & Dale Kelley	4201 WV ROUTE 18	WEST UNION	WV	26456

Upstream and Downstream Adjacent Property Owners in Doddridge County					
OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP
11885	Norma Lee Kelley	4201 WV ROUTE 18	WEST UNION	WV	26456
11849	PARSONS RICHARD P & CHERYL A & (SURV)	ROUTE 23	WEST UNION	WV	26456
11875	POLAN WILMA C	BLANDVILLE RT 18	WEST UNION	WV	26456
11901	PRICE PATRICK L & PENNY L & (SURV)	1543 SNOWBIRD RD	WEST UNION	WV	26456
11902	PRICE PATRICK L & PENNY L & (SURV)	1543 SNOWBIRD RD	WEST UNION	WV	26456
11872	ROLLINS CANDI E ET VIR	ROUTE 18	WEST UNION	WV	26456
11923	Scotty & Martha Ruble	ROUTE 3	SMITHBURG	WV	26436
11942	Secrist, Mary Farr	1884 PUNKIN CENTER RD	WEST UNION	WV	26456
11931	SPURLOCK HOWARD D II & AMY B & (SURV)	192 PIGGIN RUN RD	WEST UNION	WV	26456
11877	Stover, Anderson	ST RT 18	WEST UNION	WV	26456
11914	STUMPF THEODORE J	4805 RAGANS RN	WEST UNION	WV	26456
11900	SUTTON JEREMY W & AMANDA L & (SURV)	PO BOX 57	SMITHBURG	WV	26436
11912	SWIGER LARRY D	ST RT 23	CENTER POINT	WV	26339
11911	SWIGER MICHAEL W & JODI A & (SURV)	5577 RIGGINS RN	WEST UNION	WV	26456
11936	Swisher, Jeffrey	379 DAKOTA LN	WEST UNION	WV	26456
11887	Tim Bland	WV RT 18	WEST UNION	WV	26456
11892	Tim Bland	BLANDVILLE RT 18	WEST UNION	WV	26456
11857	TIMBERLAND TRUST		WEST UNION	WV	26456
11878	TRAVIS MARVIN E & ROBIN E & (SURV)	67 EIBS CAMP RD	NEW MILTON	WV	26411
11889	TRAVIS MARVIN E & ROBIN E & (SURV)	67 EIBS CAMP RD	NEW MILTON	WV	26411
11871	TRAVIS MICHAEL D	5689 WV RT 18 S	WEST UNION	WV	26456
11865	Trent, William	2500 WESTFIELD	ELGIN	IL	60123
11907	TRUSTEES OF GRACE BAPTIST & CHURCH	ST RT 23 ASHLEY	CENTER POINT	WV	26339
11882	UNITED METHODIST CHURCH TRUSTE	ST RT 18-BLANDVILLE	WEST UNION	WV	26456
11854	WAGNER JEFFERY S & RICHARD L & (SURV)	107 TAYLOR SCHOOL RD	BRIDGEPORT	WV	26330
11862	Wellings, Charles & Barbara	1232 WV RT 18	WEST UNION	WV	26456
11899	WELLS ANTHONY J & ROBIN A & (SURV)	9235SE 178TH MADELINE LN	THE VILLAGES	FL	32162
11852	WERNER EDWARD C & FERN F & (SURV)	1 FIRST AMERICAN WAY	WESTLAKE	TX	76262
11943	West, Linda	1602 DOTTERER'S RUN	CHARLESTON	SC	29414
11903	WILLIS MARY MADELYN	ROUTE 18	WEST UNION	WV	26456
11941	WV Railroad Maintenance Authority		MOOREFIELD	WV	26836
11927	Yerkey, Barbara	5891 BIG FLINT RD	WEST UNION	WV	26456
11928	Yerkey, Ronald	37 MCMULLAN FARM RD	WEST UNION	WV	26456

Upstream and Downstream Adjacent Property Owners in Doddridge County					
OBJECTID *	OWNER	ADDR	CITY	STATE	ZIP
11917	ZACK DONALD E JR	ST RT 23	CENTER POINT	WV	26339



MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

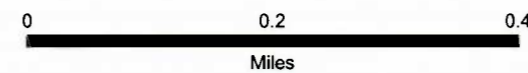
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 14 of 64

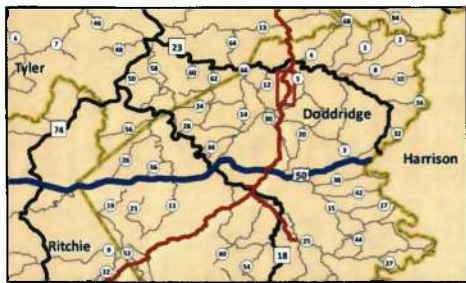


Date: 12/20/2017





MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 15 of 64**



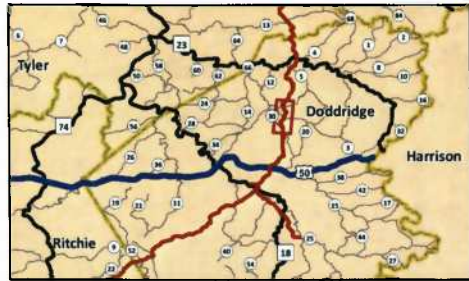
Date: 12/20/2017



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MAP OVERVIEW



Flood Zone Hazard

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- AE
- A
- X
- AREA NOT INCLUDED

Mile Post

- Access Roads
- Pipeline Centerline
- Pipeline Variance
- Proposed Yards

ROW

- Permanent Workspace
- Temporary Workspace
- Additional Workspace

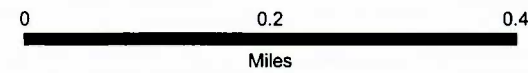
West Virginia Roads

- Interstate
- US
- WV
- CR
- CR Subroute

Pipeline Facilities

- Compressor Station
- Valve Site

**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 16 of 64

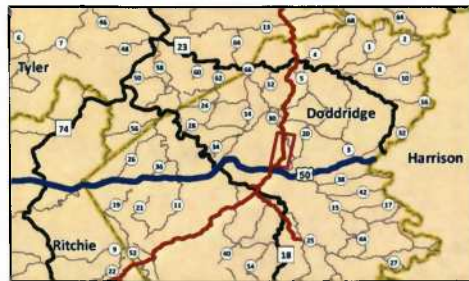


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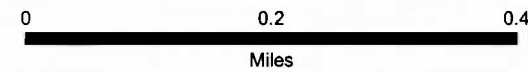
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Pipeline Facilities

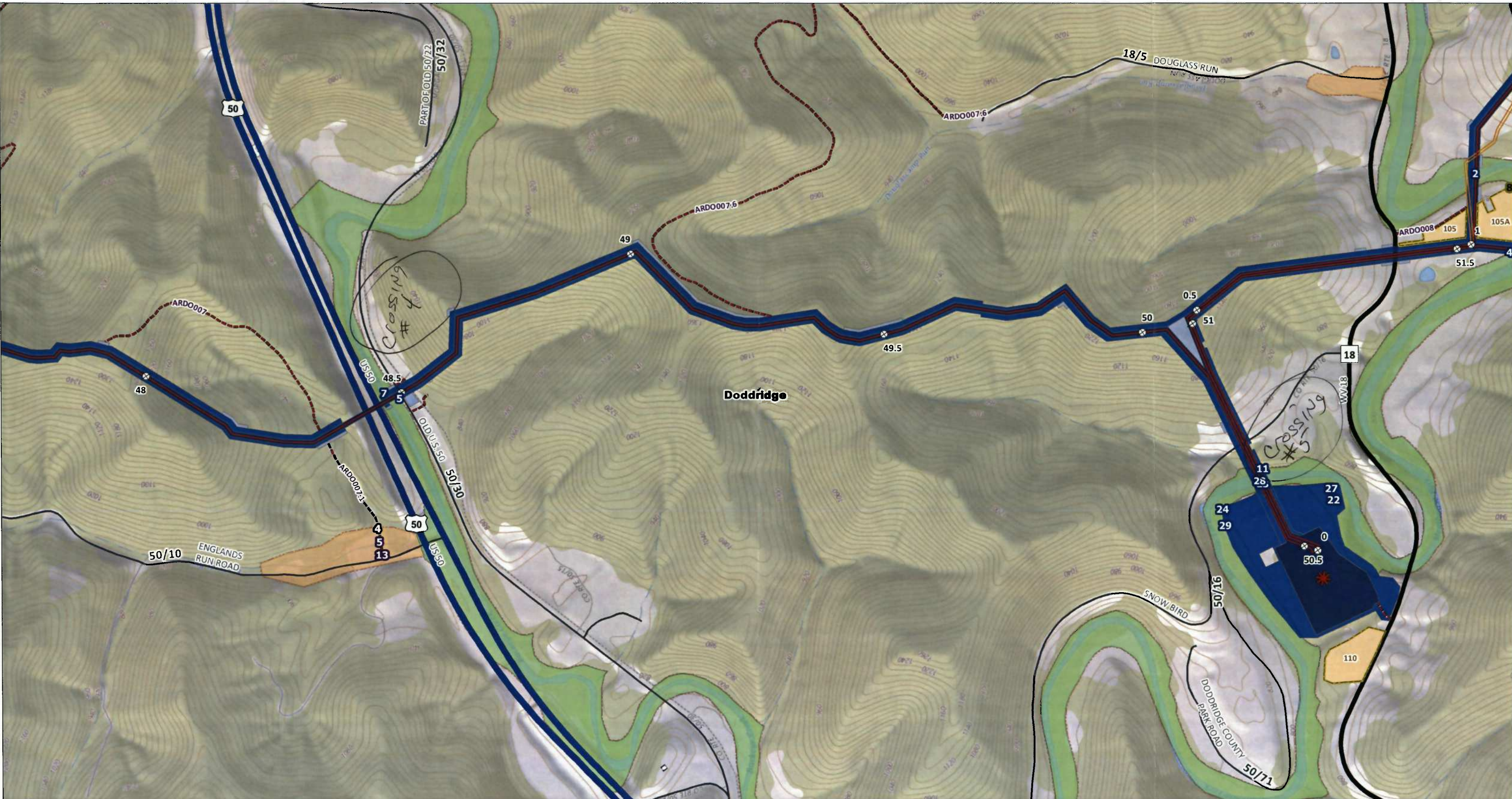
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**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 17 of 64

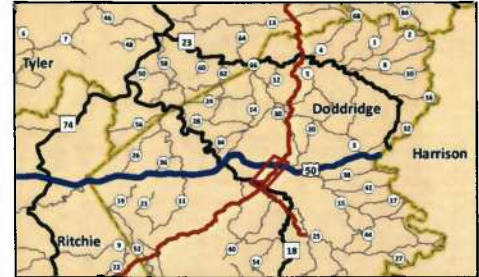


Date: 12/20/2017





MAP OVERVIEW

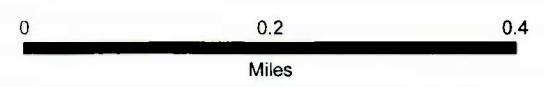


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**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 18 of 64



Date: 12/20/2017





MAP OVERVIEW

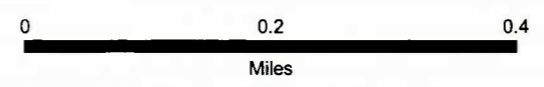


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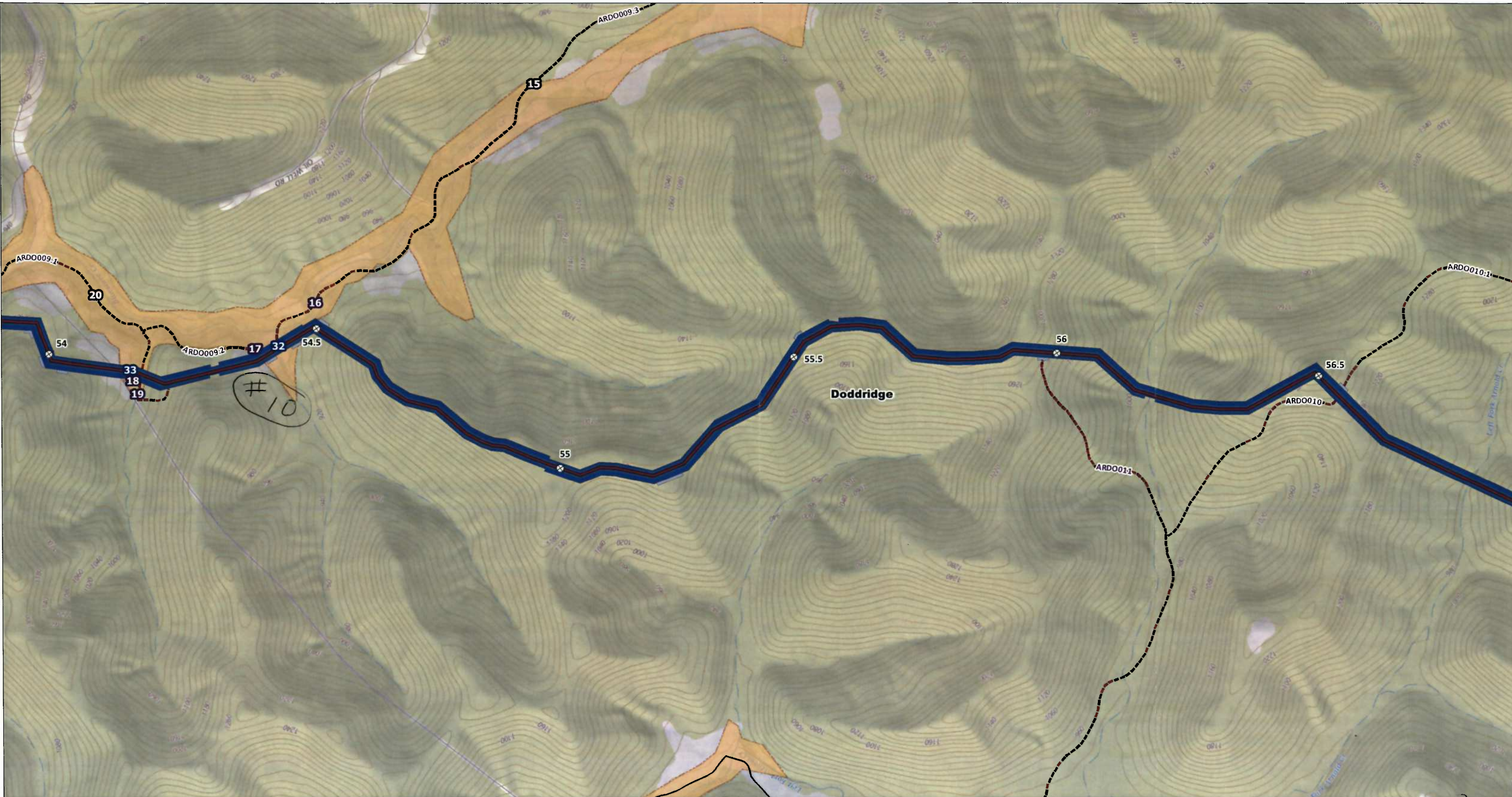
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 - Valve Site

**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 19 of 64**

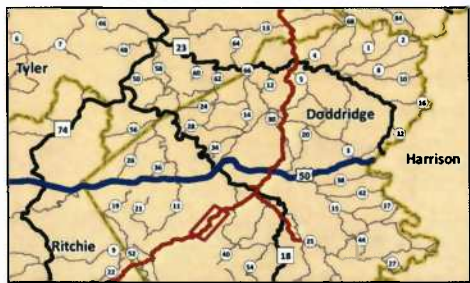


Date: 12/20/2017





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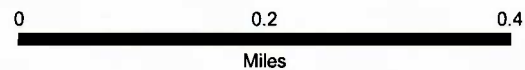
West Virginia Roads

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Pipeline Facilities

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- Valve Site

**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 20 of 64**



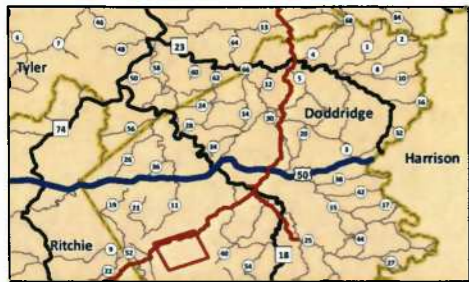
Date: 12/20/2017



10



MAP OVERVIEW



Flood Zone Hazard

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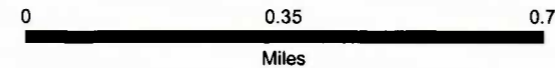
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Pipeline Facilities

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- Valve Site

**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS
Doddridge County, West Virginia - Page 21 of 64**

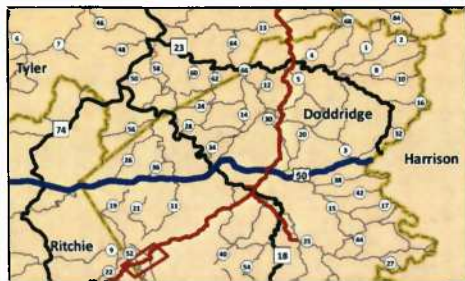


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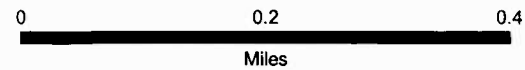
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Pipeline Facilities

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- Valve Site

**MOUNTIANEER XPRESS PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 22 of 64



Date: 12/20/2017





MAP OVERVIEW



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Pipeline Facilities

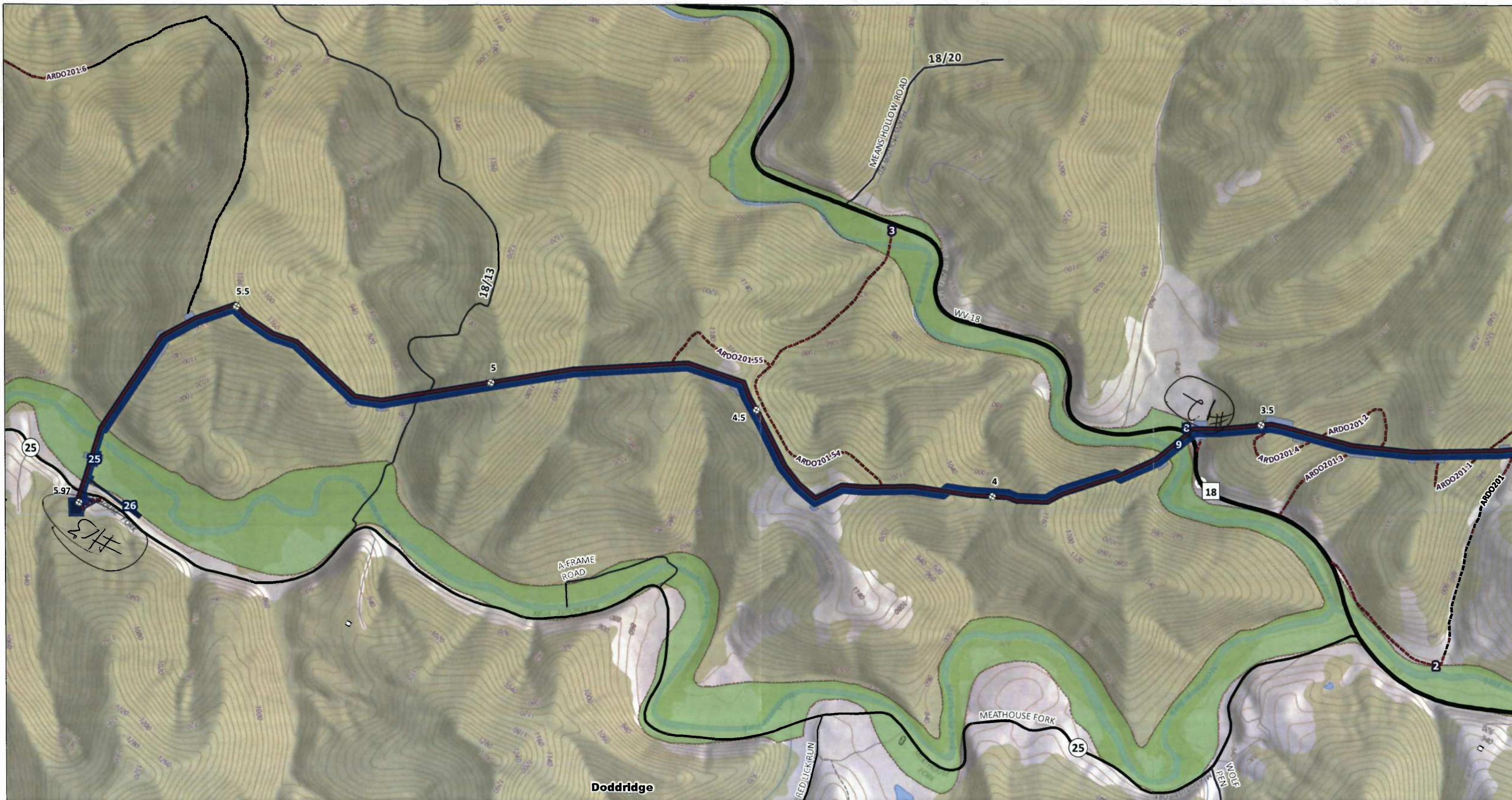
- Compressor Station
- Valve Site

**SHERWOOD LATERAL PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 63 of 64

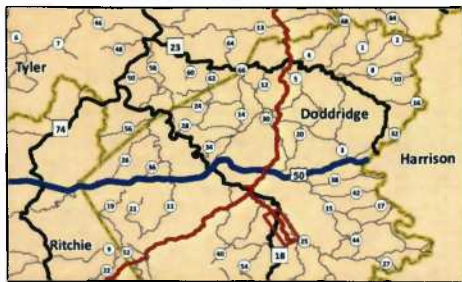


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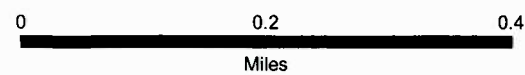
West Virginia Roads

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Pipeline Facilities

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**SHERWOOD LATERAL PROJECT
FEMA FLOODPLAINS AND FLOOD HAZARD AREAS**
Doddridge County, West Virginia - Page 62 of 64



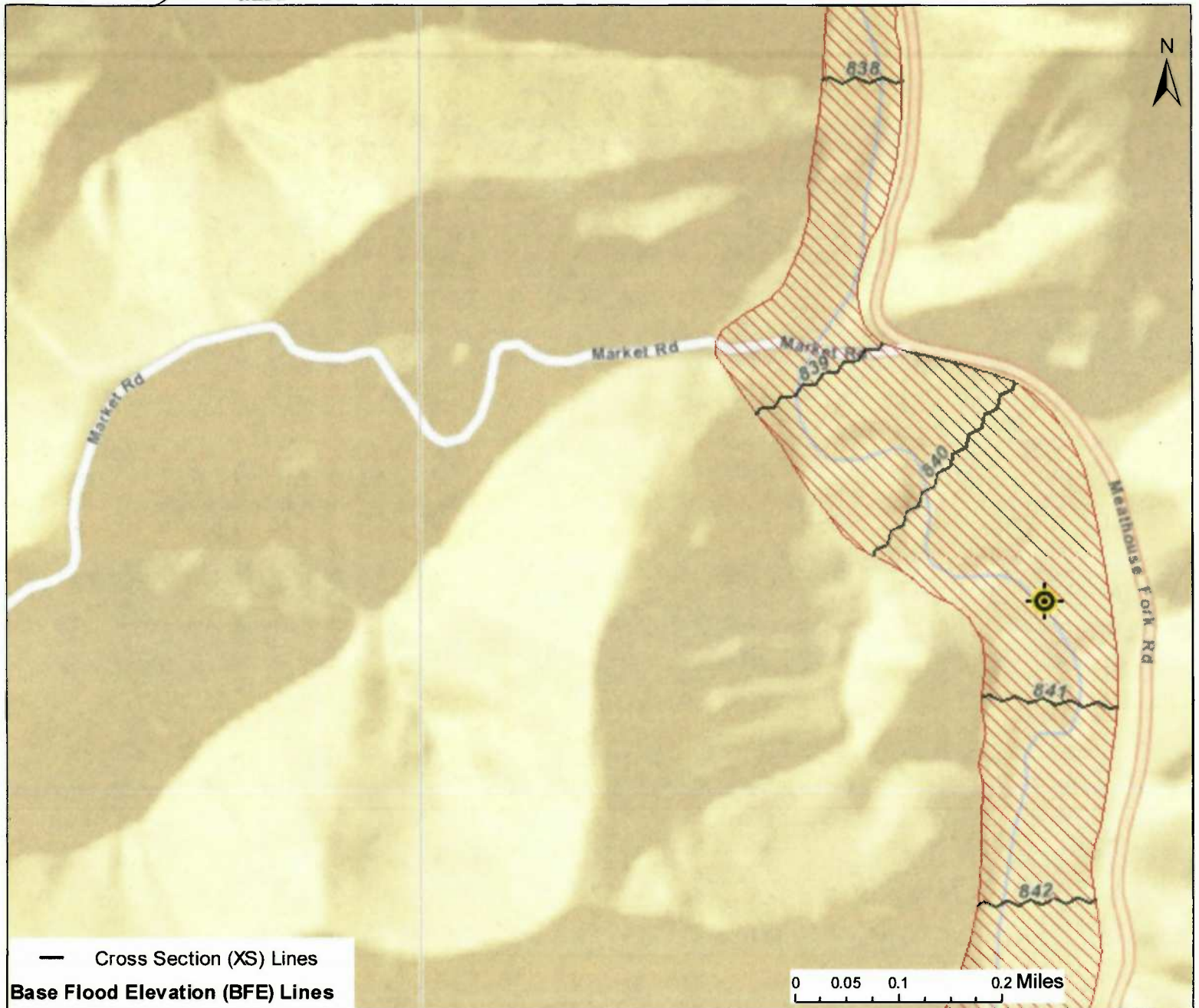
Date: 12/20/2017



12+13

Crossing # 13

WV Flood Map



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines

~ Rule_1

Floodway

Flood Hazard Zone

Approximate Study (Zone A)

Detailed Study (AE, AH, AO)

flood_depth_HEC_RAS

High : 134.442

Low : 6.10352e-005

Location of flood information
 User Notes:

IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map created on December 27, 2017

Flood Hazard Area:

Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.

Flood Hazard Zone: AE

Stream: Meathouse Fork

FEMA Issued Flood Map: 54017C0235C

Watershed (HUC8): Little Musringum-Middle Island (5030

Advisory Flood Height: N/A

Water Depth: About 10.0 ft (Source: HAZUS)

Elevation: About 830 ft

Location (long, lat): (80.678853 W, 39.214855 N)

Location (UTM 17N): (527725, 4340668)

Contacts: Doddridge

CRS Information: N/A

Flood Profile: 54017_019

HEC-RAS Model: N/A

Parcel Number: 09-06-0012-0006-0000

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

**Mountaineer XPress Project
Environmental Permits, Approvals, and Consultations**

Agency	Permit/Approval/Consultation	Filing Date (Anticipated)	Receipt Date (Anticipated)
Federal			
Federal Energy Regulatory Commission	Certificate of Public Convenience and Necessity under Section 7(c) of the Natural Gas Act	April 29, 2016	(December 2017)
U.S. Army Corps of Engineers – Pittsburgh, Huntington Districts	Department of the Army Permits under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act (Joint Permit Application)	July 8, 2016	(December 2017)
U.S. Fish and Wildlife Service – West Virginia Ecological Field Services Office	Consultation under Section 7 of the Endangered Species Act	July 2015 ^a	December 7, 2017
State: West Virginia			
West Virginia Department of Environmental Protection- Division of Air Quality	Air Permit – Title V Permit	April 29, 2016	December 12, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Water Quality Certificate under Section 401 of the Clean Water Act	July 21, 2016	July, 26, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	West Virginia Water Pollution Control Permit – Stormwater Associated with Oil and Gas Related Construction Activities – WV0116815	April 27, 2017	(December 2017)
West Virginia Department of Environmental Protection – Division of Water and Waste Management	National Pollutant Discharge Elimination System – Water Pollution Control Permit for Hydrostatic Testing Water – WV0113069	(November 2017)	(January 2018)
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Large Quantity Water Use Registration – Registration only	(November 2017)	(January 2018)
West Virginia Division of Culture and History	Consultation under Section 106 of the National Historic Preservation Act	July 2015	December 15, 2017
West Virginia Division of Natural Resources – Natural Heritage Program	Natural Heritage/Protected Species Consultation	July 2015	December 2017 Consultation does not result in a permit. The information from the WVDNR contains privileged species information and will not be provided to the County.
West Virginia Division of Natural Resources – Office of Land and Streams	Stream Activity Permit (Joint Application with the Public Lands Corporation)	October 2017	(December 2017)
^a To comply with the provisions of the Endangered Species Act, Columbia has evaluated and certified that the Project activities are consistent with the U.S. Fish and Wildlife Service approved NiSource/Columbia Multi-Species Habitat Conservation Plan and the resulting programmatic Section 7 consultation. ESA closure is predicated on Columbia receiving FERC authorization for the Project.			



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone (304) 926-0475 • FAX: (304) 926-0479

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 14, 2016

CERTIFIED MAIL
91 7199 9991 7034 1176 1385

Columbia Gas Transmission, LLC
Eugene Wood
1700 MacCorkle Avenue, SE
Charleston, WV 25314

RE: **Permit Issuance**
Columbia Gas Transmission, LLC
Sherwood Compressor Station
Permit Application R13-3313
Plant ID No. 017-00162

Dear Mr. Wood:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit R13-3313 is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

As a result of the granting of this permit, the source is subject to 45CSR30. The Title V application will be due within twelve (12) months after the date of the commencement of the operation or activity (activities) authorized by this permit, unless granted a deferral or exemption by the Director from such filing deadline pursuant to a request from the permittee.

In accordance with 45CSR30- Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1223.

Sincerely,

A handwritten signature in black ink, appearing to be 'J. Williams', with a long horizontal flourish extending to the right.

Jerry Williams, P.E.
Engineer

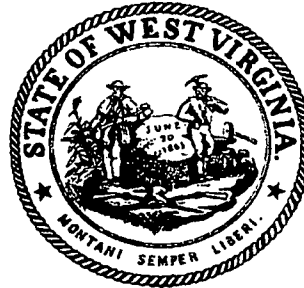
c: Lacy Ivey
Jeff McCombs

West Virginia Department of Environmental Protection
Earl Ray Tomblin
Governor

Division of Air Quality

Randy C. Huffman
Cabinet Secretary

Permit to Construct



R13-3313

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§22-5-1 et seq.) and 45 C.S.R. 13 – Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the above-referenced facility is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Issued to:

Columbia Gas Transmission LLC
Sherwood Compressor Station
017-00162

A handwritten signature in black ink, appearing to read "William F. Durham", is written over a horizontal line.

William F. Durham
Director

Issued: November 14, 2016

Facility Location: Smithburg, Doddridge County, West Virginia
Mailing Address: 1700 MacCorkle Avenue, SE Charleston, WV 25314
Facility Description: Transmission Natural Gas Compressor Station
NAICS Codes: 486210
UTM Coordinates: 523.0 km Easting • 4,346.7 km Northing • Zone 17
Permit Type: Construction
Description of Change: Installation of four (4) natural gas-fired turbines, one (1) emergency generator, one (1) condensate tank, two (2) process heaters and forty (40) catalytic heaters.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

As a result of the granting of this permit, the source is subject to 45CSR30. The Title V (45CSR30) application will be due within twelve (12) months after the date of the commencement of the operation or activity (activities) authorized by this permit, unless granted a deferral or exemption by the Director from such filing deadline pursuant to a request from the permittee.

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7.3.	Testing Requirements	26
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1.0. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
T1	T01	Solar Taurus 60 Turbine #1	2017	7,417 HP @ 32 °F	None
T2	T02	Solar Taurus 60 Turbine #2	2017	7,417 HP @ 32 °F	None
T3	T03	Solar Mars 100 Turbine #3	2017	15,427 HP @ 32 °F	None
T4	T04	Solar Mars 100 Turbine #4	2017	15,427 HP @ 32 °F	None
G1	G1	Waukesha Emergency Generator	2017	1,175 hp	None
HTR1	H1	Process Heater	2017	1.10 MMBTU/hr	None
HTR2	H2	Process Heater	2017	0.60 MMBTU/hr	None
HTR3	SH1	40 Catalytic Heaters	2017	40 x 0.072 MMBTU/hr	None
A1	A01	Condensate Storage Tank	2017	2,000 gal	None

2.0. General Conditions

2.1. Definitions

- 2.1.1. All references to the “West Virginia Air Pollution Control Act” or the “Air Pollution Control Act” mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The “Clean Air Act” means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. “Secretary” means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary’s designated representative for the purposes of this permit.

2.2. Acronyms

CAAA	Clean Air Act Amendments	NO_x	Nitrogen Oxides
CBI	Confidential Business Information	NSPS	New Source Performance Standards
CEM	Continuous Emission Monitor	PM	Particulate Matter
CES	Certified Emission Statement	PM_{2.5}	Particulate Matter less than 2.5 μm in diameter
C.F.R. or CFR	Code of Federal Regulations	PM₁₀	Particulate Matter less than 10μm in diameter
CO	Carbon Monoxide	Ppb	Pounds per Batch
C.S.R. or CSR	Codes of State Rules	Pph	Pounds per Hour
DAQ	Division of Air Quality	Ppm	Parts per Million
DEP	Department of Environmental Protection	Ppm_v or ppm_v	Parts per Million by Volume
dscm	Dry Standard Cubic Meter	PSD	Prevention of Significant Deterioration
FOIA	Freedom of Information Act	Psi	Pounds per Square Inch
HAP	Hazardous Air Pollutant	SIC	Standard Industrial Classification
HON	Hazardous Organic NESHAP	SIP	State Implementation Plan
HP	Horsepower	SO₂	Sulfur Dioxide
lbs/hr	Pounds per Hour	TAP	Toxic Air Pollutant
LDAR	Leak Detection and Repair	TPY	Tons per Year
M	Thousand	TRS	Total Reduced Sulfur
MACT	Maximum Achievable Control Technology	TSP	Total Suspended Particulate
MDHI	Maximum Design Heat Input	USEPA	United States Environmental Protection Agency
MM	Million	UTM	Universal Transverse Mercator
MMBtu/hr or mmbtu/hr	Million British Thermal Units per Hour	VEE	Visual Emissions Evaluation
MMCF/hr or mmcf/hr	Million Cubic Feet per Hour	VOC	Volatile Organic Compounds
NA	Not Applicable	VOL	Volatile Organic Liquids
NAAQS	National Ambient Air Quality Standards		
NESHS	National Emissions Standards for Hazardous Air Pollutants		

2.3. Authority

This permit is issued in accordance with West Virginia air pollution control law W.Va. Code §§ 22-5-1. et seq. and the following Legislative Rules promulgated thereunder:

- 2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation;*

2.4. Term and Renewal

- 2.4.1. This Permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any other applicable legislative rule;

2.5. Duty to Comply

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-3313 and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;
[45CSR§§13-5.11 and -10.3.]
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

2.8. Administrative Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-4.]

2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-5.4.]

2.10 Major Permit Modification

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.
[45CSR§13-5.1]

2.11. Inspection and Entry

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

2.12. Emergency

- 2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by

improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- 2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are met.
- 2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
 - d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- 2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 2.12.5. The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

2.15. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. [45CSR§13-10.1.]

2.18. Notification Requirements

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management, and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40CFR§61.145(b) and 45CSR§34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1] *[State Enforceable Only]*
- 3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5.]
- 3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2.]

3.2. Monitoring Requirements

[Reserved]

3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling

connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 as applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 as applicable.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
- d. The permittee shall submit a report of the results of the stack test within sixty (60) days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1.; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
 1. The permit or rule evaluated, with the citation number and language;
 2. The result of the test for each permit or rule condition; and,
 3. A statement of compliance or noncompliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

3.4. Recordkeeping Requirements

- 3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports, and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.
- 3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§4. *State Enforceable Only.*]

3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street
Charleston, WV 25304-2345

If to the US EPA:

Associate Director
Office of Air Enforcement and Compliance
Assistance
(3AP20)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. **Operating Fee**

- 3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be

maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

- 3.5.4.2. In accordance with 45CSR30 – Operating Permit Program, enclosed with this permit is a Certified Emissions Statement (CES) Invoice, from the date of initial startup through the following June 30. Said invoice and the appropriate fee shall be submitted to this office no later than 30 days prior to the date of initial startup. For any startup date other than July 1, the permittee shall pay a fee or prorated fee in accordance with Section 4.5 of 45CSR22. A copy of this schedule may be found attached to the Certified Emissions Statement (CES) Invoice.
- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:

- a. The date, place as defined in this permit, and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of the analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

4.1.2. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
[45CSR§13-5.11.]

4.1.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

- a. The equipment involved.
- b. Steps taken to minimize emissions during the event.
- c. The duration of the event.
- d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
- f. Steps taken to correct the malfunction.
- g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

4.1.4. For each affected facility under §60.5365a(j), you must reduce GHG (in the form of a limitation on emissions of methane) and VOC emissions by complying with the requirements of paragraphs (a) through (j) of §60.5397a. These requirements are independent of the closed vent system and cover requirements in §60.5411a.

4.1.5. The permittee shall collect production data of condensate collected from the pipeline segment that the permitted facility supports for the first 30 days that A1 was placed into service. The permittee must calculate the potential VOC emissions from A1, which includes flash emissions, breathing losses, and working losses from the vessel, using a generally accepted model or calculation methodology, based on the maximum average daily throughput determined for a 30-day period of production. If the potential VOC emissions from A1 are at or greater than 6 tpy, A1 is an affected source subject to Subpart OOOOa of 40 CFR 60 and the permittee shall comply with the following:

- a. Determine the potential VOC emission rate as specified in 40 CFR §60.5365a(e).
- b. Reduce the VOC emissions in accordance with 40 CFR §60.5395a(a).
- c. Submit the information required for A1 as specified in 40 CFR §60.5420a(b)(1) and (6).
- d. Maintain records in accordance with Condition 3.4.1.
[40 CFR §60.5410a(h)]

4.1.6. The permittee shall install the following noise abatement equipment prior to operation:

- a. The two (2) Solar Taurus 60 turbines (T1, T2) and two (2) Solar Mars 100 turbines (T3, T4) shall be housed in an enclosed insulated building with a minimum of 6-inch thick high density insulation. All operations shall occur with the doors closed as practical. Personnel entry doors should be a STC-36 sound rating, should be self-closing and should seal when closed. Each air supply fan for the air ventilation system shall employ an exterior dissipative-type silencer.
- b. The turbine exhaust systems shall include a 2-stage exhaust silencer system.
- c. Acoustical pipe insulation on all outdoor above ground gas piping.
- d. The turbine air intake system for each compressor unit shall be designed with at least one (1) in-duct silencer, and at least one (1) of the silencers should be installed in the intake ductwork located inside the building.
- e. The gas aftercooler shall be designed with “low noise” fans that operate at relatively low tip speeds
- f. Each compressor unit shall be equipped with a blowdown silencer.
- g. The above noise abatement equipment shall be employed during any and all operation of the noise emitting sources at the facility. Further, the noise abatement equipment shall be operated and maintained in accordance with the manufacturer’s specifications.

4.1.7. The permittee shall submit a noise survey to the Secretary no later than 60 days after startup. If a full load condition noise survey of the entire facility is not possible, the permittee shall instead submit an interim survey at the maximum possible horsepower load and submit the full load survey within 6 months. If the noise attributable to the operation of all of the equipment at the facility under interim or full horsepower load conditions exceeds 55 dBA Ldn at any nearby noise-sensitive areas, the permittee shall submit a report on what changes are needed and should install the additional noise controls to meet the level within 1 year. The permittee shall confirm compliance with the 55 dBA Ldn requirement by submitting a second noise survey with the Secretary no later than 60 days after it installs the additional noise controls.

5.0. Source-Specific Requirements (Turbines (T01, T02, T03, T04))

5.1. Limitations and Standards

- 5.1.1. The Solar turbines (T01, T02, T03, T04) shall be operated and maintained in accordance with the manufacturer’s recommendations and specifications and in a manner consistent with good operating practices and shall only burn natural gas. Each turbine shall only be fired with pipeline-quality natural gas.
- 5.1.2. Maximum annual emissions from the Solar turbines (T01, T02, T03, T04) shall not exceed the following:

Emission Point ID#	NO _x	CO	VOC	SO ₂	PM ₁₀	CH ₂ O
	tons/year					
T01	16.78	38.95	2.13	0.21	1.97	0.21
T02	16.78	38.95	2.13	0.21	1.97	0.21
T03	32.51	78.89	4.16	0.41	3.82	0.41
T04	32.51	78.89	4.16	0.41	3.82	0.41

Compliance with the annual emission limits shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the emissions at any given time during the previous twelve consecutive calendar months.

- 5.1.3. Maximum hourly emissions from the Solar Taurus 60 turbines (T01, T02) shall not exceed the following:

Operating Parameter	T01	T02
NO_x		
Full Load @ 32 °F	15 ppm _v @ 15% O ₂ (3.68 lb/hr)	15 ppm _v @ 15% O ₂ (3.68 lb/hr)
Low Temp (<0 °F)	10.75 lb/hr	10.75 lb/hr
Low Load (<50%)	8.50 lb/hr	8.50 lb/hr
Startup/Shutdown	1.10 lb/event	1.10 lb/event
CO		
Full Load @ 32 °F	25 ppm _v @ 15% O ₂ (3.74 lb/hr)	25 ppm _v @ 15% O ₂ (3.74 lb/hr)
Low Temp (<0 °F)	15.58 lb/hr	15.58 lb/hr
Low Load (<50%)	344.95 lb/hr	344.95 lb/hr
Startup/Shutdown	97.30 lb/event	97.30 lb/event
VOC		
Full Load @ 32 °F	5 ppm _v @ 15% O ₂ (0.43 lb/hr)	5 ppm _v @ 15% O ₂ (0.43 lb/hr)
Low Temp (<0 °F)	0.89 lb/hr	0.89 lb/hr
Low Load (<50%)	3.94 lb/hr	3.94 lb/hr
Startup/Shutdown	1.12 lb/event	1.12 lb/event
SO₂ (short term emission rate based on 20 gr S/100 scf)		

Full Load @ 32 °F	3.90 lb/hr	3.90 lb/hr
PM₁₀		
Full Load @ 32 °F	0.45 lb/hr	0.45 lb/hr

5.1.4. Maximum hourly emissions from the Solar Mars 100 turbines (T03, T04) shall not exceed the following:

Operating Parameter	T03	T04
NO_x		
Full Load @ 32 °F	15 ppm _v @ 15% O ₂ (7.12 lb/hr)	15 ppm _v @ 15% O ₂ (7.12 lb/hr)
Low Temp (<0 °F)	21.12 lb/hr	21.12 lb/hr
Low Load (<50%)	16.10 lb/hr	16.10 lb/hr
Startup/Shutdown	3.10 lb/event	3.10 lb/event
CO		
Full Load @ 32 °F	25 ppm _v @ 15% O ₂ (7.23 lb/hr)	25 ppm _v @ 15% O ₂ (7.23 lb/hr)
Low Temp (<0 °F)	30.60 lb/hr	30.60 lb/hr
Low Load (<50%)	653.41 lb/hr	653.41 lb/hr
Startup/Shutdown	272.70 lb/event	272.70 lb/event
VOC		
Full Load @ 32 °F	5 ppm _v @ 15% O ₂ (0.83 lb/hr)	5 ppm _v @ 15% O ₂ (0.83 lb/hr)
Low Temp (<0 °F)	1.75 lb/hr	1.75 lb/hr
Low Load (<50%)	7.47 lb/hr	7.47 lb/hr
Startup/Shutdown	3.12 lb/event	3.12 lb/event
SO₂ (short term emission rate based on 20 gr S/100 scf)		
Full Load @ 32 °F	7.54 lb/hr	7.54 lb/hr
PM₁₀		
Full Load @ 32 °F	0.87 lb/hr	0.87 lb/hr

- 5.1.5. The Solar turbines (T01, T02, T03, T04) shall consume no more than the following amounts of natural gas:

Emission Point ID	Natural gas consumption
	MMscf/yr
T01	586.09
T02	586.09
T03	1,133.85
T04	1,133.85

- 5.1.6. NO_x emissions from the Solar turbines (T01, T02, T03, T04) shall not exceed 25 ppm at 15% O₂ (or an alternative limit of 150 ng/J of useful output or 1.2 lb/MWh). When operating at less than 75% peak load or at temperatures less than 0 °F, the emission limit for NO_x is 150 ppm at 15% O₂ (or an alternative limit of 1,100 ng/J or useful output or 8.7 lb/MWh).
[40 CFR§ 60.4320]
- 5.1.7. Emissions of SO₂ shall not exceed 0.060 lb of SO₂/MMBTU heat input. For purpose of demonstrating compliance with this limit, the permittee shall maintain the Federal Energy Regulatory Commission (FERC) tariff limit on total sulfur content of 20 grains of sulfur per 100 standard cubic feet of natural gas combusted in the turbines.
[40 CFR§ 60.4330(a)(2)]
- 5.1.8. The permittee must operate and maintain the stationary combustion turbines (T01, T02, T03, T04) in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.
[40CFR§60.4333(a) and 60.4365(a)]

5.2. Testing Requirements

- 5.2.1. For the purposes of demonstrating compliance with the NO_x emission standards in permit conditions 5.1.3, 5.1.4, and 40 CFR§60.4320(a), the permittee shall conduct an initial performance test within 60 days after achieving maximum output of each turbine, but no later than 180 days after initial startup. After the initial test, subsequent performance testing shall be conducted annually (no more than 14 months following the previous test) unless the previous results demonstrate that the affected units achieved compliance of less than or equal to 75 percent of the NO_x emission limit, then the permittee may reduce the frequency of subsequent tests to once every two years (no more than 26 calendar months following the previous test) as allowed under 40 CFR §60.4340(a). If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit, then the permittee must resume annual performance tests. Such testing shall be conducted in accordance with Condition 3.3.1. and 40 CFR §60.4400. Records of such testing shall be maintained in accordance with Condition 3.4.1.
[40 CFR §60.8(a), §60.4340(a), §60.4375(b), and §60.4400]
- 5.2.2. In order to show compliance with the CO emission limits contained in 5.1.2 - 5.1.4 of this permit the permittee shall perform initial and periodic performance tests on each turbine using EPA approved methods (or other alternative methods approved by the Director). Said testing shall be performed while the turbines are operating at normal conditions, within 25% of full load or at the highest achievable load (and while ambient temperatures are above 0°F). The initial performance test shall be conducted within 180 days of startup. Subsequent testing shall be conducted at least every 5 years.

5.3. Recordkeeping Requirements

- 5.3.1. To demonstrate compliance with section 5.1.2 - 5.1.5, the permittee shall maintain records of the amount of natural gas consumed and the hours of operation of each of the Solar turbines (T01, T02, T03, T04).
- 5.3.2. The permittee shall maintain the fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet, has potential sulfur emissions of less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas.
[40CFR§60.4365(a)]
- 5.3.3. In order to demonstrate compliance with the emission limitations of condition 5.1.2 – 5.1.4 of this permit the permittee will monitor and record the monthly operating hours for each operating parameter listed in permit conditions 5.1.3 and 5.1.4. Monthly emissions for each pollutant will be calculated using the following equation:

$$MEP_x = DLNP_x * DLN \text{ hrs} + LLP_x * LL \text{ hrs} + LTP_x * LT \text{ hrs} + SSP_x * SS \text{ cycles}$$

Where:

- MEP_x is the monthly emissions for each pollutant
- DLNP_x is the unit emission rates (lb/hr) for pollutant X during normal (DLN) operation
- LLP_x is the unit emission rates (lb/hr) for pollutant X during low-load (LL) operation
- LTP_x is the unit emission rates (lb/hr) for pollutant X during low-temperature (LT) operation
- SSP_x is the unit emission rates (lb/cycle) for pollutant X during startup/shutdown (SS) operation

At the end of each month, the monthly emissions will be summed for the preceding 12 months to determine compliance with the annual emissions limits.

5.4. Reporting Requirements

- 5.4.1. The permittee shall submit a notification to the Director of the initial start-up of turbines. Such notice must be submitted within 15 days after the actual date of start-up for the affected source. This notification supersedes the notification requirements of Condition 2.18.
[40CFR§60.7(a)(3)]
- 5.4.2. The permittee shall submit a written report of the results of testing required in 5.2 of this permit before the close of business on the 60th day following the completion of such testing to the Director. Such report(s) shall include all records and readings taken during such testing, as appropriate for the required report.
[40CFR§60.4375(b)]

6.0. Source-Specific Requirements (Emergency Generator (G1))

6.1. Limitations and Standards

- 6.1.1. **Maximum Yearly Operation Limitation.** The maximum yearly operating hours of the 1,175 hp natural gas fired reciprocating engine, Waukesha VGF-P48GL (G1) shall not exceed 500 hours per year. Compliance with the Maximum Yearly Operation Limitation shall be determined using a twelve month rolling total. A twelve month rolling total shall mean the sum of the hours of operation at any given time during the previous twelve consecutive calendar months.
- 6.1.2. Maximum emissions from the 1,175 hp natural gas fired reciprocating engine, Waukesha VGF-P48GL (G1) shall not exceed the following limits:

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
Nitrogen Oxides	5.18	1.30
Carbon Monoxide	4.15	1.04
Volatile Organic Compounds	0.83	0.21

The emergency generator shall only be fired with pipeline-quality natural gas.

6.2. Emission Standards for Owners and Operators

- 6.2.1. Emissions from emergency generator (G1) shall not exceed the following:
- NO_x emissions from the engine shall not exceed 2.0 grams of NO_x per horsepower-hour (g/hp-hr) or 160 ppmvd at 15 percent O₂;
 - CO emissions from engine shall not exceed 4.0 g/hp-hr or 540 ppmvd at 15 percent O₂;
 - VOC emissions from the engine shall not exceed 1.0 g/hp-hr or 86 ppmvd at 15 percent O₂. Emission of formaldehyde shall be excluded when determining compliance with this VOC limit.
[40 CFR §60.4233(e), Table 1 to Subpart JJJJ of Part 60 - NO_x, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines ≥ 100 HP, Stationary SI Landfill/Digester Gas Engines, and Stationary Emergency Engines > 25 HP]
- 6.2.2. Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.
[40CFR§60.4234]

6.3. Other Requirements for Owners and Operators

- 6.3.1. Starting on July 1, 2010, if the emergency stationary SI internal combustion engine that is greater than or equal to 500 HP that was built on or after July 1, 2010, does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter.
[40CFR§60.4237(a)]

6.4. Compliance Requirements for Owners and Operators

- 6.4.1. If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of 40 CFR 60.4243.
- b. Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in §60.4233(d) or (e) and according to the requirements specified in §60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of 40 CFR 60.4243.
1. *Not applicable.*
 2. If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

[40CFR§60.4243(b)]

- 6.4.2. If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (d)(1) through (3) of 40 CFR 60.4243. In order for the engine to be considered an emergency stationary ICE under 40 CFR 60 Subpart JJJJ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (d)(1) through (3) of 40 CFR 60.4243, is prohibited. If you do not operate the engine according to the requirements in paragraphs (d)(1) through (3) of 40 CFR 60.4243, the engine will not be considered an emergency engine under 40 CFR 60 Subpart JJJJ and must meet all requirements for non-emergency engines.

- (1) There is no time limit on the use of emergency stationary ICE in emergency situations.
- (2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (d)(2)(i) through (iii) of 40 CFR 60.4243 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (d)(3) of 40 CFR 60.4243 counts as part of the 100 hours per calendar year allowed by this paragraph (d)(2).
 - (i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
- (3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (d)(2) of 40 CFR 60.4243. Except as provided in paragraph (d)(3)(i) of 40 CFR 60.4243, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

- (i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
 - (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
 - (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[40CFR§60.4243(d)]

- 6.4.3. Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of §60.4233.

[40CFR§60.4243(e)]

6.5. Testing Requirements for Owners and Operators

- 6.5.1. Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in paragraphs (a) through (f) of 40 CFR 60.4244.
 - a. Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to 40 CFR 60 Subpart JJJJ.
[40CFR§60.4244(a)]
 - b. You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.
[40CFR§60.4244(b)]
 - c. You must conduct three separate test runs for each performance test required in 40 CFR 60 Subpart JJJJ, as specified in §60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.
[40CFR§60.4244(c)]
 - d. To determine compliance with the NO_x mass per unit output emission limitation, convert the concentration of NO_x in the engine exhaust using Equation 1 of 40 CFR 60.4244:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 1})$$

Where:

ER = Emission rate of NO_x in g/HP-hr.

C_d = Measured NO_x concentration in parts per million by volume (ppmv).

1.912×10⁻³ = Conversion constant for ppm NO_x to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

[40CFR§60.4244(d)]

- e. To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of 40 CFR 60.4244:

$$ER = \frac{C_d \times 1.164 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 2})$$

Where:

ER = Emission rate of CO in g/HP-hr.

C_d = Measured CO concentration in ppmv.

1.164×10⁻³ = Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

[40CFR§60.4244(e)]

- f. For purposes of 40 CFR 60 Subpart JJJJ, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of 40 CFR 60.4244:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 3})$$

Where:

ER = Emission rate of VOC in g/HP-hr.

C_d = VOC concentration measured as propane in ppmv.

1.833×10^{-3} = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

[40CFR§60.4244(f)]

- g. If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of 40 CFR 60.4244. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of 40 CFR 60.4244.

$$RF_i = \frac{C}{C_{Ai}} \quad (\text{Eq. 4})$$

Where:

RF_i = Response factor of compound i when measured with EPA Method 25A.

C_{Mi} = Measured concentration of compound i in ppmv as carbon.

C_{Ai} = True concentration of compound i in ppmv as carbon.

$$C_{i\text{corr}} = RF_i \times C_{i\text{meas}} \quad (\text{Eq. 5})$$

Where:

$C_{i\text{corr}}$ = Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.

$C_{i\text{meas}}$ = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{\text{Peq}} = 0.6098 \times C_{i\text{corr}} \quad (\text{Eq. 6})$$

Where:

C_{Peq} = Concentration of compound i in mg of propane equivalent per DSCM.

[40CFR§60.4244(g)]

6.6. Notification, Reports, and Records for Owners and Operators

- 6.6.1. Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.
- a. Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of 40 CFR 60.4245.

1. All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification.
2. Maintenance conducted on the engine.
3. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.
4. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

[40CFR§60.4245(a)]

- b. For all stationary SI emergency ICE greater than or equal to 500 HP manufactured on or after July 1, 2010, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40CFR§60.4245(b)]

- c. Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in §60.4231 must submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (c)(1) through (5) of 40 CFR 60.4245.

1. Name and address of the owner or operator;
2. The address of the affected source;
3. Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
4. Emission control equipment; and
5. Fuel used.

[40CFR§60.4245(c)]

- d. Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in §60.4244 within 60 days after the test has been completed. **[40CFR§60.4245(d)]**

7.0. Source-Specific Requirements (Heaters (HTR1, HTR2, HTR3))

7.1. Limitations and Standards

7.1.1. Maximum Design Heat Input (MDHI). The MDHI for the heaters shall not exceed the following:

Emission Unit ID#	Emission Unit Description	MDHI
HTR1	Process Heater	1.10 MMBTU/hr
HTR2	Process Heater	0.60 MMBTU/hr
HTR3	40 Catalytic Heaters	2.88 MMBTU/hr TOTAL

Each heater shall only be fired with pipeline-quality natural gas.

7.1.2. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

[45CSR§2-3.1.]

7.2. Monitoring Requirements

7.2.1. At such reasonable times as the Secretary may designate, the permittee shall conduct Method 9 emission observations for the purpose of demonstrating compliance with permit condition 7.1.2. Method 9 shall be conducted in accordance with 40 CFR 60 Appendix A.

7.3. Testing Requirements

7.3.1. Upon request by the Secretary, compliance with the visible emission requirements of permit condition 7.1.2 shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 or by using measurements from continuous opacity monitoring systems approved by the Secretary. The Secretary may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of permit condition 7.1.2. Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control.

[45CSR§2-3.2.]

7.4. Recordkeeping Requirements

7.4.1. The permittee shall maintain records of all monitoring data required by permit condition 7.2.1 documenting the date and time of each visible emission check, the emission point or equipment/source identification number, the name or means of identification of the observer, the results of the check(s), whether the visible emissions are normal for the process, and, if applicable, all corrective measures taken or planned. The permittee shall also record the general weather conditions (i.e. sunny, approximately 80° F, 6 - 10 mph NE wind) during the visual emission check(s). Should a visible emission observation be required to be performed per the requirements specified in Method 9, the data records of each observation shall be maintained per the requirements of Method 9.

CERTIFICATION OF DATA ACCURACY

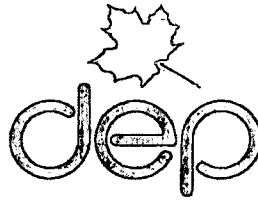
I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached _____, representing the period beginning _____ and ending _____, and any supporting documents appended hereto, is true, accurate, and complete.

Signature¹ _____
(please use blue ink) Responsible Official or Authorized Representative Date

Name & Title _____
(please print or type) Name Title

Telephone No. _____ Fax No. _____

- ¹ This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:
- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
 - (i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
 - (ii) the delegation of authority to such representative is approved in advance by the Director;
 - b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
 - c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of U.S. EPA); or
 - d. The designated representative delegated with such authority and approved in advance by the Director.



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, WV 25304
Telephone Number: (304) 926-0495
Fax Number: (304) 926-0496

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
dep.wv.gov

July 26, 2017

Michael Hatten
Chief, Regulatory Branch
United States Army Corps of Engineers
Huntington District
502 Eighth Street
Huntington, West Virginia 25701

Re: State 401 Water Quality Certification;
Nationwide Permit No. 12; Columbia Gas
Transmission, LLC; Mountaineer Xpress
Pipeline Project; FERC Docket No. CP-16-357;
Marshall, Wetzel, Tyler, Doddridge, Ritchie,
Wirt, Calhoun, Roane, Jackson, Mason,
Putnam, Cabell, Wayne, and Kanawha
Counties, West Virginia; WQC-16-0015

Dear Mr. Hatten,

The West Virginia Department of Environmental Protection-Division of Water and Waste Management (WVDEP-DWWM), in conjunction with the West Virginia Division of Natural Resources - Wildlife Resources Section (WVDNR-WRS), has completed review of the above-referenced project. In addition, WVDEP-DWWM has participated as a cooperating agency with the Federal Energy Regulatory Commission (FERC) on the project since December 2015.

Columbia Gas Transmission, LLC (Columbia) is proposing the Mountaineer Xpress Pipeline Project (Project). To date, FERC has not issued the Final Environmental Impact Statement (FEIS) for the Project; therefore, the final route of the Project has not been confirmed. The proposed Project includes approximately 170.9 miles of pipeline within West Virginia as well as approximately 101.4 miles of proposed temporary and permanent access roads. In addition to the proposed pipeline, the Project will include: modifications to one existing compressor station, modifications to two new compressor stations being constructed as part of other Columbia projects, construction of three new compressor stations, and construction of three new regulating stations.

Promoting a healthy environment.

Mr. Michael Hatten

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Modifications to compressor stations include the Lone Oak Compressor Station, Ceredo Compressor Station, and Elk River Compressor Station located in Marshall County, Wayne County, and Kanawha County, respectively. Compressor stations proposed to be constructed as part of the Project include Sherwood Compressor Station in Doddridge County, White Oak Compressor Station in Calhoun County, and Mount Olive Compressor Station in Jackson County. In addition to compressor stations, the Project proposes three new regulating stations: Sherwood Regulator Station in Doddridge County, Ripley Regulator Station in Jackson County, and Saunders Creek Regulator Station in Cabell County.

Delineation of Waters of the U.S. surveys have been performed for 99.84 percent of the construction Right-of-Way (ROW), 100.00 percent of aboveground facilities, 99.14 percent of access roads, 99.76 percent of additional temporary workspaces, 99.92 percent of contractor yards, and 100.00 percent of staging areas. While the majority of the Project has currently been surveyed for streams and wetlands, field teams have not been granted access by landowners for all portions of the proposed Project. A desktop Waters of the U.S. evaluation of these unsurveyed areas was conducted to evaluate the likely presence and approximate location of aquatic resources. This survey was conducted so as to overestimate the potential impacts until surveys can be conducted in these areas. Non-survey area evaluation indicated there was no evidence of Waters of the U.S. present within any non-surveyed portion of the Project.

Proposed impacts are considered either temporary or permanent. Proposed temporary impacts will result from temporary disturbance to Waters of the U.S. within the pipeline ROW during pipeline construction, additional temporary work spaces, contractor yards, and temporary access roads. Impacts considered as temporary include aquatic resources that will be restored upon completion of proposed activities. Proposed permanent impacts will result from stream culverting along permanent access roads, constructing above ground facilities, converting palustrine forested and palustrine scrub-shrub wetlands along the pipeline ROW, and filling of wetlands for permanent access roads.

Construction of the Project would result in unavoidable temporary and permanent impacts to Waters of the U.S. in the Pittsburgh District and Huntington District of the U.S. Army Corps of Engineers (USACE). Permanent impacts to streams and wetlands were evaluated utilizing the West Virginia Stream and Wetland Valuation Metric (SWVM). To compensate for permanent impacts associated with this project, the applicant has proposed to purchase credits from a USACE approved mitigation bank if available or, if credits are not available, from the WVDEP In-Lieu Fee (ILF) Program. SWVM units for proposed permanent impacts were calculated for surveyed impacts only and represent the requirements stated in this Individual 401 Water Quality Certification (401 WQC). SWVM units for non-surveyed impacts will be calculated if survey permission is granted, submitted to the WVDEP-DWWM, and additional compensatory mitigation will be required for those areas.

Total proposed stream crossings associated with the Project in West Virginia include 1,288 crossings comprised of 1,187 crossings in the Huntington District and 101 crossings in the Pittsburgh District. Of the 1,187 stream crossings in the Huntington District, 1,170 are temporary crossings, 15 crossings are permanent, and the remaining 2 crossings will be by Horizontal Directional Drill (HDD). All 101 stream crossings in the Pittsburgh District are temporary crossings. Permanent impact to streams associated with the Project include 1,114 linear feet (lf), accruing a total of 777.84 SWVM debits.

Total proposed wetland crossings associated with the Project include 128 crossings comprised of 124 crossings in the Huntington District and 4 crossings in the Pittsburgh District. Of the 128 crossings in the Huntington District, 109 are temporary crossings, 14 are permanent crossings, and the remaining crossing will be by HDD. All 4 wetland crossings in the Pittsburgh District are temporary crossings. Permanent impact to wetlands associated with the Project includes 0.3 acre.

WVDEP-DWWM did not receive comments during the public comment period for the Project and did not hold public hearings.

Stream and wetland debits will be mitigated for using purchase of mitigation bank credits or purchase from the WVDEP ILF Program at the respective crediting ratios (greater than 1:1 when using the WVDEP ILF Program). As calculated by current methodologies, if completed in 5 years, mitigation for the project would be for proposed permanent impact of 1,114 lf of stream (777.84 SWVM debits) and 0.3 acre of wetland (0.3 SWVM debits). The total number of credits which will be purchased, if available, from a mitigation bank include 777.84 stream credits and 0.3 wetland credits. If mitigation bank credits are not available, the total number of credits which would be purchased from the WVDEP ILF Program includes 871.18 stream credits and 1.0 wetland credits.

In order to comply with the state's water quality certification, the following special conditions must be met:

Special Conditions:

1. If project construction is not completed within five years of issuance of certification, impacts will be re-evaluated at the then current rates and methodologies.
2. Representatives from WVDEP-DWWM and WVDNR-WRS must be allowed to inspect the authorized activity at any time deemed necessary to ensure that the terms and conditions of certification are being met or will be met.
3. WVDEP-DWWM 401 Certification Program is to be informed within 2 business days of the applicant's knowledge of any slips that have impacted or may impact a stream and/or wetland.
4. During the crossing of any Section 10 waters, the applicant must adhere to its Horizontal Directional Drill Inadvertent Release Contingency Plan dated April 2017.

5. At all times during pipeline operation, the applicant must adhere to its Section 10 Crossing Waterbody Crossings and Operation Plan dated May 2017.
6. All stream and wetland crossings must be completed in accordance with the Wetland and Waterbody Construction and Mitigation Procedures established by the Federal Energy Regulatory Commission (FERC); Upland Erosion Control, Revegetation Plan, and Maintenance Plan established by FERC; and the Stream Bank Restoration information submitted to the WVDEP-DWWM in May 2017.
7. Completion of stream and wetland crossings must adhere to dates established in standard conditions for 404/401 permits including restrictions during the spawning season for warm water streams (April to June) and trout waters (September 14 to March 31).
8. At each stream crossing, substrate in the channel is to be removed and stockpiled separately from other excavated material. This native material must be reused in restoration of the stream channel. Upon final stream bed restoration, the stream must have similar substrate pattern, profile, dimension and embeddedness of the original stream channel.
9. At each wetland crossing, the top 12 inches of soil is to be removed and stockpiled separately from other excavated material. This native material must be reused in restoration of the wetland.
10. For stream crossings, prior to any construction activities photographs of the channel within the ROW, the channel upstream of the ROW, and the channel downstream of the ROW are to be taken. For wetland crossings, photographs of the wetland within the ROW, the ROW as it enters the wetland, and the ROW as it exits the wetland are to be taken. All photos are to be georeferenced to include a unique identification, date, and GPS coordinates. The photographs associated with each stream and wetland crossing are to be submitted to WVDEP-DWWM and WVDNR-WRS.
11. Upon completion of construction and reclamation of each stream and wetland crossing, associated photographs are to be taken in the same manner and locations as pre-impact existing conditions (as described above). Associated photographs of each stream and wetland crossing within the ROW upon completion of construction and reclamation are to be submitted to WVDEP-DWWM and WVDNR-WRS.
12. Stream and wetland crossings are to be monitored for a minimum period of 3 years. A monitoring report must be submitted annually to WVDEP-DWWM and WVDNR-WRS which includes photographs (as described above), details of any slips encountered which affected streams and/or wetlands, and an evaluation of the current conditions of each stream crossing.

13. Based on review of monitoring reports, additional restoration and/or mitigation may be required for permanent or temporary stream impacts/losses or conversion of palustrine scrub shrub and palustrine forested wetlands as outlined in 47CSR5A and 33 CFR Parts 325 and 332 Compensatory Mitigation for Losses of Aquatic Resources; Final Rule.
14. Compensatory mitigation requirements as presented in this 401 WQC are based on SWVM units for proposed permanent impacts for surveyed impacts only.
15. SWVM units for non-surveyed impacts will be calculated if survey permission is granted and submitted to the WVDEP-DWWM in order to calculate additional compensatory mitigation associated with this project. No impacts to non-surveyed areas are to occur until this information is submitted to WVDEP-DWWM.
16. Only open bottom box culverts are to be used for culverts on permanent access roads that cross trout streams. The applicant shall contact the WVDEP-DWWM for a complete listing of trout streams after determination of the final route of the Project.
17. Upon issuance of the FEIS by FERC and determination of the final route of the Project, the applicant will submit to WVDEP-DWWM either confirmation that the proposed route provided in the 401 WQC is the final route of the Project or provide the final route if it differs from the 401 WQC. If the final route differs from the 401 WQC, the applicant will provide updated impacts corresponding to the final route of the Project.
18. The applicant shall supply to the WVDEP-DWWM a copy of the Certificate of Public Convenience and Necessity (Certificate) issued by FERC for this project, not later than ten days after the issuance of the Certificate. WVDEP-DWWM may revoke, suspend or modify this Water Quality Certification as it deems appropriate, depending upon the terms of said Certificate.

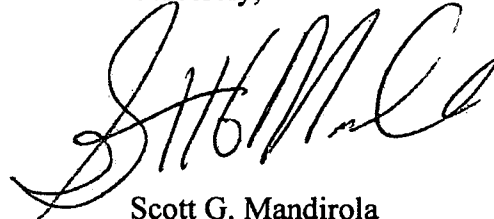
Mr. Michael Hatten

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July 26, 2017

State 401 Water Quality Certification, as required by the Federal Clean Water Act, is granted subject to the above special conditions and the attached 401 standard conditions, and WV DEP DWWM reserves the right to re-examine and modify any condition herein based upon the Final Environmental Impact Statement and/or Certificate issued by the FERC. Certification shall be effective fifteen (15) days after receipt unless appealed under title 47, Series 5A, Section 7 of the Code of State Regulations, State Certification of Activities Requiring a Federal Permit. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It should be directed to: Director, Division of Water and Waste Management, West Virginia Department of Environmental Protection, 601 57th Street SE, Charleston, West Virginia 25304: ATTENTION: 401 Certification Program.

Sincerely,



Scott G. Mandirola
Director

SGM/njd

cc: Mr. Erik Duncan

Columbia Gas Transmission, LLC
1700 MacCorkle Avenue SE
Charleston, West Virginia 25314

U.S. Environmental Protection Agency – Jessica Martinsen
U.S. Fish and Wildlife Service – John Schmidt
WVDNR-Wildlife Resources Section, Elkins – Danny Bennett
WVDEP-DWWM, In-Lieu Fee Program – Brian Bridgewater
WVDEP-DWWM, Environmental Enforcement – John Hendley

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CONDITIONS REQUIRED FOR ISSUANCE OF FEDERAL PERMITS AND LICENSES
REQUIRING STATE SECTION 401 CERTIFICATION

Applicant: Columbia Gas Transmission, LLC
WQC #: 16-0015
Date: July 26, 2017

1. In-stream work in designated warm water streams and their adjacent tributaries during the fish spawning season, April to June and trout waters and their adjacent tributaries during the trout water fish spawning season September 15 to March 31 requires a spawning season waiver from the West Virginia Division of Natural Resources (WV DNR) Coordination Unit, at (304) 637-0245. For information about specific stream designations contact West Virginia Department of Environmental Protection, Water Quality Standards Section at (304) 926-0495. In-stream work may occur during the respective spawning season in ephemeral waters without a waiver if all reasonable measures are taken to minimize turbidity and sedimentation downstream associated with the proposed project.
2. Operation of equipment in-stream is to be minimized and accomplished during low flow periods when practical. Ingress and egress for equipment shall be within the work site. Location of ingress and egress outside the immediate work area requires prior approval of the West Virginia Department of Environmental Protection, Division of Water and Waste Management (WV DEP DWWM) in concurrence with the WV DNR.
3. The permittee will investigate for the presence of water supply intakes or other activities within 1/2 mile downstream, which may be affected by suspended solids and turbidity increases caused by work in the watercourse. The permittee will give notice to operators of any such water supply intakes and such other water quality dependent activities as necessary before beginning work in the watercourse in sufficient time to allow preparation for any change in water quality.
4. Activities permitted by this certification are not authorized in stream mouths, embayments or island backchannels. Stream mouth is defined as the area extending 100 feet upstream and 100 feet downstream on receiving streams that are classified as a Section 10 stream.
5. The permittee will employ measures to prevent or control spills from fuels, lubricants or any other materials used in connection with construction and restrict them from entering the watercourse. Storage areas for chemicals, explosives, lubricants, equipment fuels, etc., as well as equipment refueling areas, must include containment measures (e.g., liner systems, dikes, etc.) to ensure that spillage of any material will not contact surface or ground waters. Storage areas and refueling areas shall be a minimum distance of 100 feet from any surface water body. All spills shall be promptly reported to the State Center for Pollution, Toxic Chemical and Oil Spills, 1-800-642-3074.

6. Upon completion of in-stream operations, all disturbances below the ordinary high water mark will be properly stabilized within 24 hours to prevent soil erosion. Where possible, stabilization shall incorporate revegetation using bioengineering as an alternative to riprap. If riprap is utilized, it is to be of such weight and size that bank stress or slump conditions will not be created due to its placement. Fill is to be clean, nonhazardous and of such composition that it will not adversely affect the biological, chemical or physical properties of the receiving waters. Unsuitable materials include, but are not limited to: copper chromium arsenate (CCA) and creosote treated lumber, car bodies, tires, large household appliances, construction debris, and asphalt. To reduce potential slope failure and/or erosion behind the material, fill containing concrete must be of such weight and size that promotes stability during expected high flows. Loose large slab placement of concrete sections from demolition projects greater than thirty-six inches in its longest dimension and tires are prohibited. Rebar or wire in concrete should not extend further than one (1) inch. All activities require the use of clean and coarse non-erodible materials with 15% or less of like fines that is properly sized to withstand expected high flows.
7. Land disturbances, which are one (1) acre or greater in total area, must comply with the National Pollutant Discharge Elimination System or other state stormwater permit requirements as established by the WV DEP DWWM, if applicable. Any land disturbances are required to use Best Management Practices for Sediment and Erosion Control, as described in the latest West Virginia Department of Environmental Protection's Erosion and Sediment Control Best Management Practice Manual, or similar documents prepared by the West Virginia Division of Highways. These handbooks are available from the respective agency offices.
8. Removal of well-established riparian vegetation not directly associated with the project construction is prohibited. Disturbance and removal of vegetation from project construction area is to be avoided, where possible, and minimized when necessary. Removal of vegetation shall not be allowed where stream bank stability under normal flow conditions would be compromised.
9. All permit modifications must be re-certified.
10. Cofferdams, temporary causeways, stream channel retaining structures and all necessary dikes shall be constructed of or faced with coarse, non-erodible material. Filter cloth will be placed between granular fill and riprap. All activities require the use of clean and coarse non-erodible materials with 15% or less fines that is properly sized to withstand expected high flows.
11. Spoil materials from the watercourse or onshore operations, including sludge deposits, will not be dumped in the watercourse, or deposited in wetlands or other areas where the deposit may adversely affect the surface or ground waters of the State.
12. Excavated material, other than rock or gravel, for use as backfill for the trench will not be stockpiled in the watercourse or wetland.

13. Excavation, dredging or filling in the watercourse will be done only to the extent necessary to achieve the project's purpose, and at each wetland crossing the top 12 inches of topsoil shall be removed and stockpiled separately from other excavated material. In addition, at each stream crossing, substrate in the channel is to be removed and stockpiled separately from other excavated material. This native material must be re-used in restoration of the wetland and/or stream bed.
14. Pipelines should be designed and constructed to prevent flotation and minimize the possibility of leakage or rupture. Also, shutoff valves should be installed on both sides of the channel so that the crossing can be isolated in case of pipe failure. Buried pipeline stream crossings must be designed and constructed to prevent flotation and the possibility of leakage or rupture and the top of pipelines must be buried a minimum of three (3) feet below the stream bottom.
15. Runoff from any storage areas or spills will not be allowed to enter storm sewers without acceptable removal of solids, oils and toxic compounds. Discharges from retention/detention ponds must comply with permit requirements of the National Pollutant Discharge Elimination System permit program of the WV DEP DWWM.
16. Equipment for handling and conveying materials shall be designed and operated to keep particles and dust from entering the watercourse, whether because of clean-up activities, accidental spills, natural runoff or flooding.
17. Temporary sanitary facilities, for use during construction only, will be of a type approved by the County Health Department in which the activity is taking place.
18. Screenings, removed during intake operations, will not be returned to the watercourse.
19. Concrete will not be permitted to enter the watercourse unless contained by tightly sealed forms or cells. Concrete handling equipment shall not discharge waste washwater into wetlands or watercourses at any time without adequate wastewater treatment as approved by the WV DEP DWWM.
20. The permittee will provide written notice of the proposed start-up date to the WVDEP-Environmental Enforcement (EE), fifteen days in advance of initiation of any activity authorized by the certification. The address for EE is 601 57th Street SE, Charleston, West Virginia 25304.
21. Stream activities permitted under the Nationwide Permit Program require that a West Virginia Public Lands Corporation Right of Entry be obtained. Application for Stream Activity should be made to the WV DNR, Office of Lands and Streams, at <http://www.wvdnr.gov/REM/default.shtm> or (304) 558-3225. In addition, any activity within the Federal Emergency Management Agency delineated 100-year floodplain requires approval from the appropriate Floodplain Manager. The following website provides a statewide listing of Floodplain Managers in West Virginia: <http://www.dhsem.wv.gov/MitigationRecovery/Pages/Floodplain-Management.aspx>
www.dhsem.wv.gov/mitigation/floodplain/Pages/default.aspx

22. Should potentially hazardous waste materials be located, the permittee will advise the WV DEP DWWM (Hazardous Waste Section), telephone (304) 926-0495, prior to disturbance of material.
23. The permittee shall provide a copy of the State 401 Certification to the construction contractor. A copy of the State 401 Certification shall be available at the project site until the project is complete.
24. The permittee will comply with water quality standards as contained in the West Virginia Requirements Governing Water Quality Standards, Title 47 of Code of State Regulations, Series 2.



The Culture Center
1900 Kanawha Blvd., E.
Charleston, WV 25305-0300

Randall Reid-Smith, Commissioner

Phone 304.558.0220 • www.wvculture.org
Fax 304.558.2779 • TDD 304.558.3562

EEO/AA Employer

December 9, 2016

Mr. Larry McKee
Senior Archaeologist
Environmental Resources Management
3300 Breckinridge Blvd., Suite 300
Duluth, GA 30096

RE: Mountaineer Xpress Project
FR#: 15-800-MULTI-6

Dear Mr. McKee:

We have reviewed the draft Phase I Archaeological Survey Addendum Report 1 that was submitted for the above referenced project to determine its effects to cultural resources. As required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

The draft addendum report presents the results of archaeological survey efforts that were conducted subsequent to the initial field effort and includes areas that were previously inaccessible as well as new modifications to the proposed project. Specifically, the following areas were surveyed: 25.8 miles of the MXP-100, 1.21 miles of MXP-200 line, which is now complete, three compressor stations, 170 access roads, 21 staging areas, 39 pipeyards, and 31 additional temporary work spaces. The direct Area of Potential Effect (APE) that has been defined for this survey is consistent with that for the previous field effort. At this time, archaeological investigations still need to be completed 3.4 miles of the MXP-100 pipeline corridor. It is our understanding that this will be completed at some point in the future and the results provided in an addendum report.

As with the previous survey, field methods for these investigations included a combination of pedestrian reconnaissance and shovel probe excavation. For safety reasons, hillsides with slope greater than 60 percent were not inspected. This resulted in the identification of seven new archaeological sites, 46CB217, 46CB218, 46CB220, 46DO115, 46PU377, 46PU378 and 46PU379, within the currently proposed APE. An additional 19 sites were identified that now fall outside of the APE. As such, they are not discussed in the report. The proposed project also traverses through the broadly defined Burning Springs Civil War area and across two previously recorded archaeological sites, 46PU96 and 46PU208.

Sites 46PU96 and 46PU208 are located within two proposed access roads AR 019.6 and AR 019.7, respectively. Survey of these areas indicated that both access roads are extant. Pedestrian survey in these areas found no evidence of either site. The pipeline corridor and proposed pipeyard 67 are located within the very eastern section of the Burning Springs Civil War area. Pedestrian survey and shovel probe excavation were negative for cultural materials and no sites were identified.

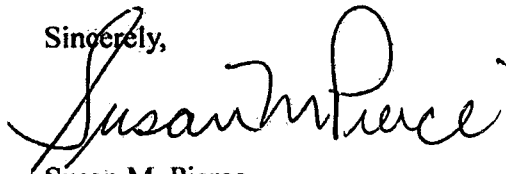
Mr. McKee
December 9, 2016
FR# 15-800-Multi-6
Page 2

Site 46CB217 is identified as the remains of a rural farmstead possibly dating to the mid to late 20th century. The site consists of the foundation remains of two structures, a stone lined well and three artifacts. While one structure likely served as a root cellar, the foundation stones of the other structure were too scattered to discern a function although the lack of a chimney foundation indicates that it was not residential. The dry-laid construction technique of the structures suggests a 19th century occupation date. However the artifacts date to the mid-20th century, suggesting that the site has limited research potential. We concur that 46CB217 is not eligible for inclusion in the National Register of Historic Places.

Sites 46CB218, 46CB220, 46DO115, 46PU377, 46PU378 and 46PU379 are described as sparse prehistoric lithic scatters. With the exception of 46PU377, which produced a single Woodland Period ceramic sherd, all the sites are of unknown age. The general lack of diagnostic materials and cultural features indicates that these sites lack research potential. In addition, sites 46PU377 and 46PU378 produced evidence suggesting they had been previously disturbed and lack integrity. As a result, we concur with your determination that sites 46CB218, 46CB220, 46DO115, 46PU377, 46PU378 and 46PU379 are not eligible for inclusion in the National Register of Historic Places. We also concur that no further work is necessary for this portion of the proposed project as currently defined.

We appreciate the opportunity to be of service. *If you have questions regarding our comments or the Section 106 process, please contact Lora A Lamarre-DeMott, Senior Archaeologist, at (304) 558-0240.*

Sincerely,

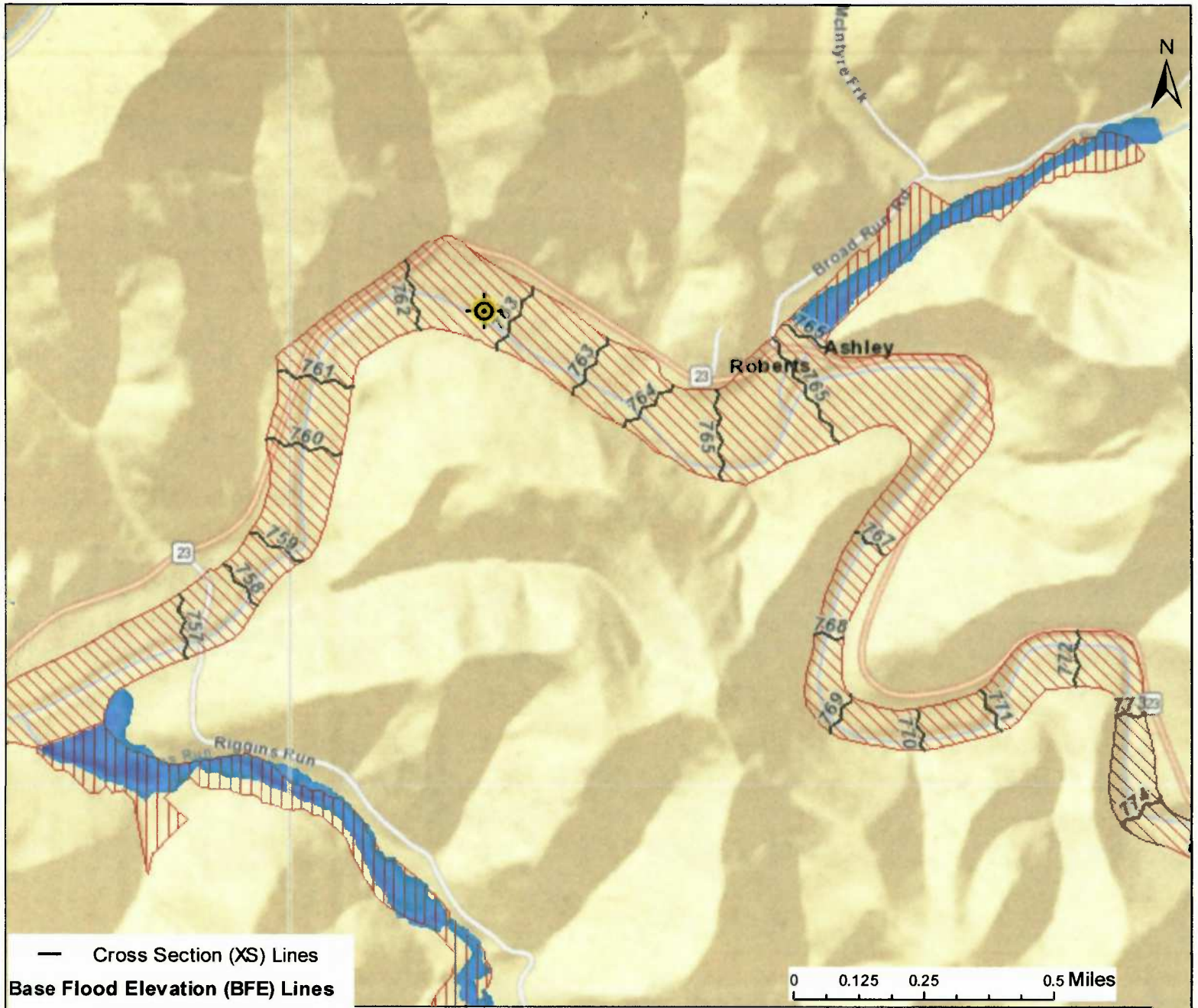


Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/LLD

Crossing #1

WV Flood Map



IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

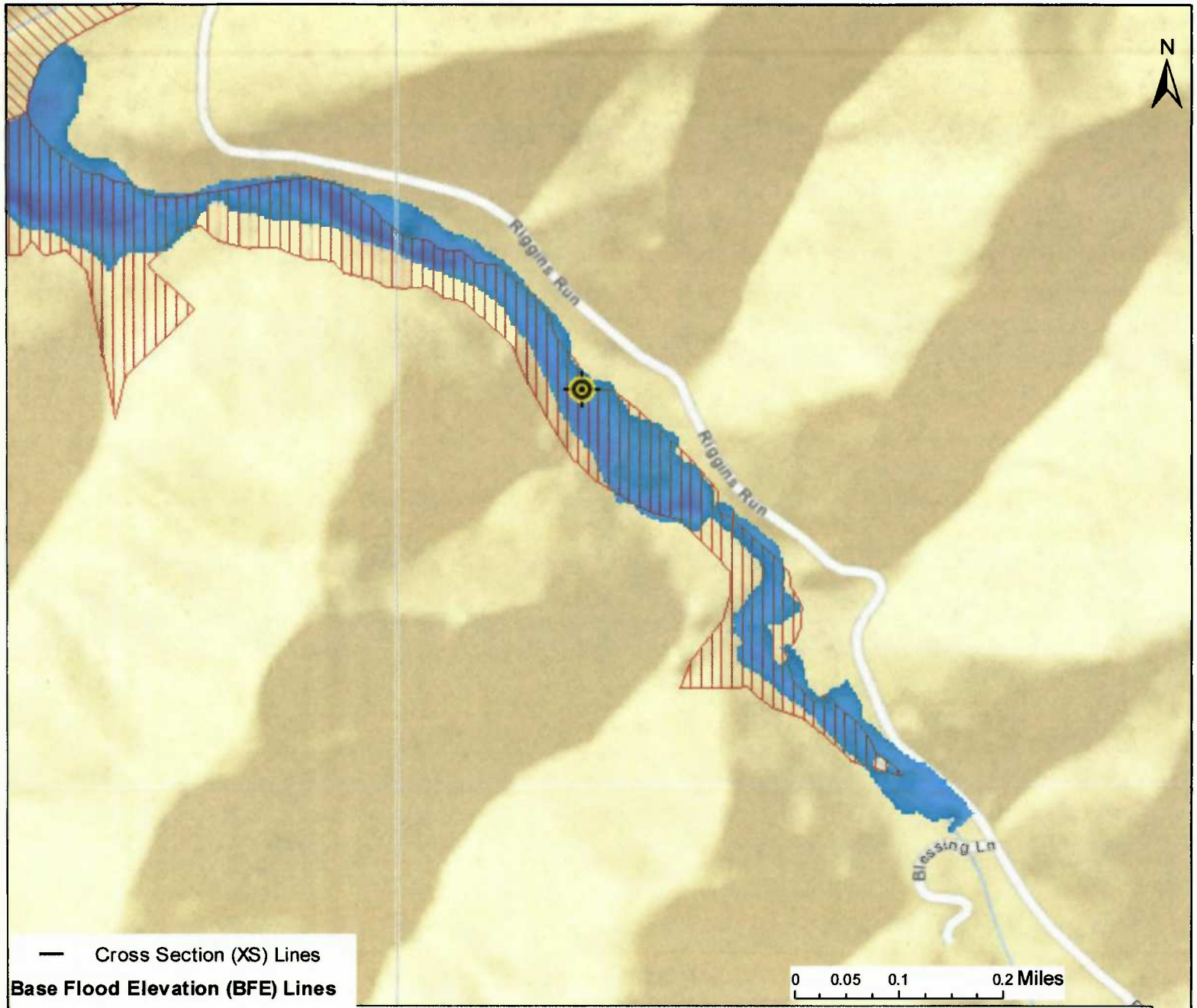
- Cross Section (XS) Lines
- Base Flood Elevation (BFE) Lines
- ~ Rule_1
- Floodway
- Flood Hazard Zone**
- Approximate Study (Zone A)
- Detailed Study (AE, AH, AO)
- flood_depth_HEC_RAS**
- High : 134.442
- Low : 6.10352e-005

Location of flood information
 User Notes:

Map created on December 27, 2017

Disclaimer:
 The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	AE
Stream:	McElroy Creek
FEMA Issued Flood Map:	54017C0045C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	N/A
Water Depth:	About 7.0 ft (Source: HAZUS)
Elevation:	About 759 ft
Location (long, lat):	(80.682072 W, 39.405828 N)
Location (UTM 17N):	(527372, 4361861)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	54017_013
HEC-RAS Model:	N/A
Parcel Number:	09-05-0011-0017-0003



- Cross Section (XS) Lines
- Base Flood Elevation (BFE) Lines**
- ~ Rule_1
- Floodway
- Flood Hazard Zone**
- Approximate Study (Zone A)
- Detailed Study (AE, AH, AO)
- flood_depth_HEC_RAS**
- High : 134.442
- Low : 6.10352e-005

FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Location of flood information

User Notes:

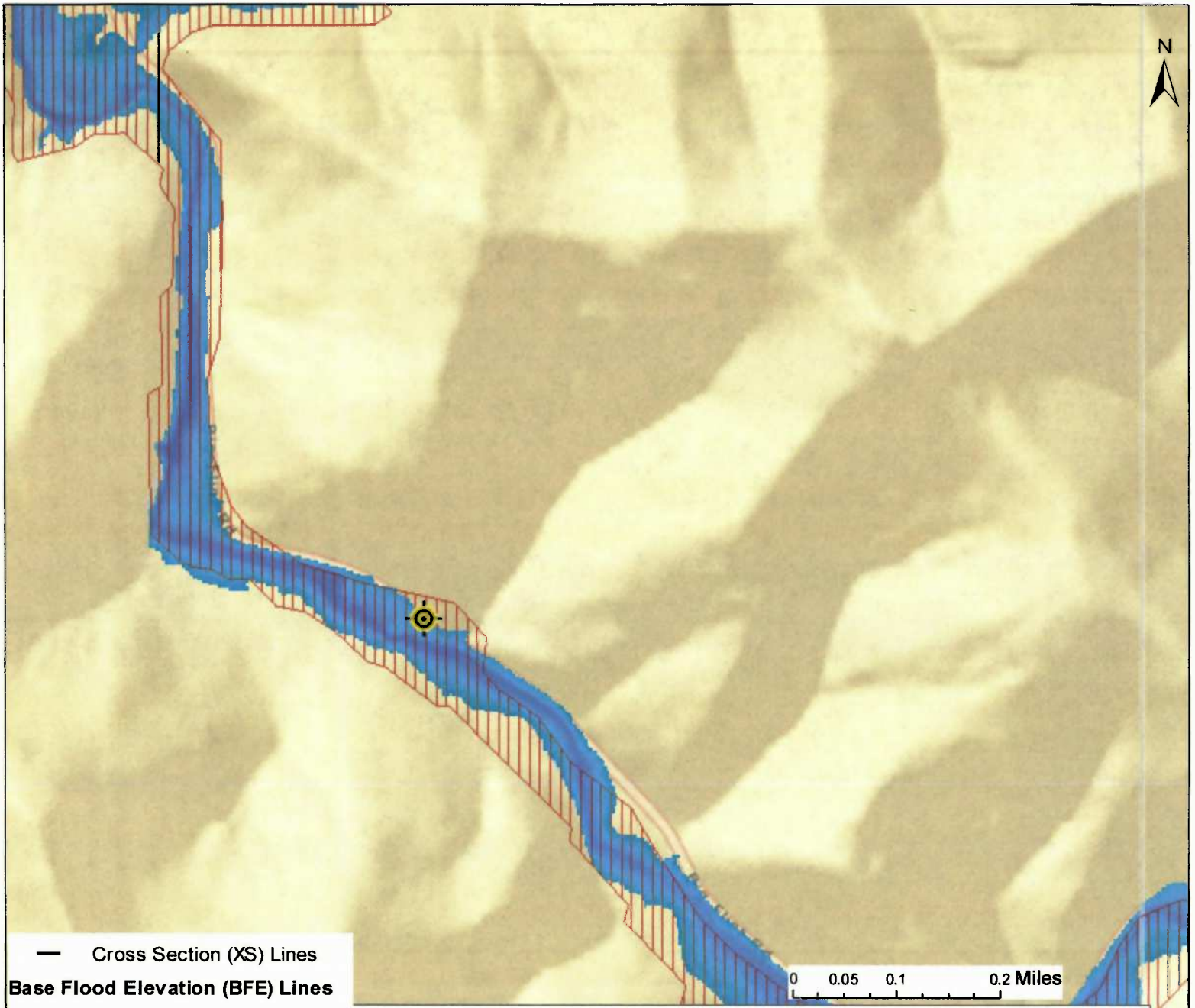
Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	A (Advisory A)
Stream:	Riggins Run
FEMA Issued Flood Map:	54017C0045C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	About 769 ft
Water Depth:	About 2.2 ft (Source: HEC-RAS)
Elevation:	About 766 ft
Location (long, lat):	(80.684947 W, 39.393856 N)
Location (UTM 17N):	(527129, 4360531)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	N/A
HEC-RAS Model:	Riggins Run
Parcel Number:	09-05-0017-0003-0007

Disclaimer:
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Crossing # 3

WV Flood Map



- Cross Section (XS) Lines
- Base Flood Elevation (BFE) Lines
- ~ Rule_1

- Floodway
- Flood Hazard Zone**
- Approximate Study (Zone A)
- Detailed Study (AE, AH, AO)

- flood_depth_HEC_RAS**
- High : 134.442
- Low : 6.10352e-005

Disclaimer:
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IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

- Location of flood information

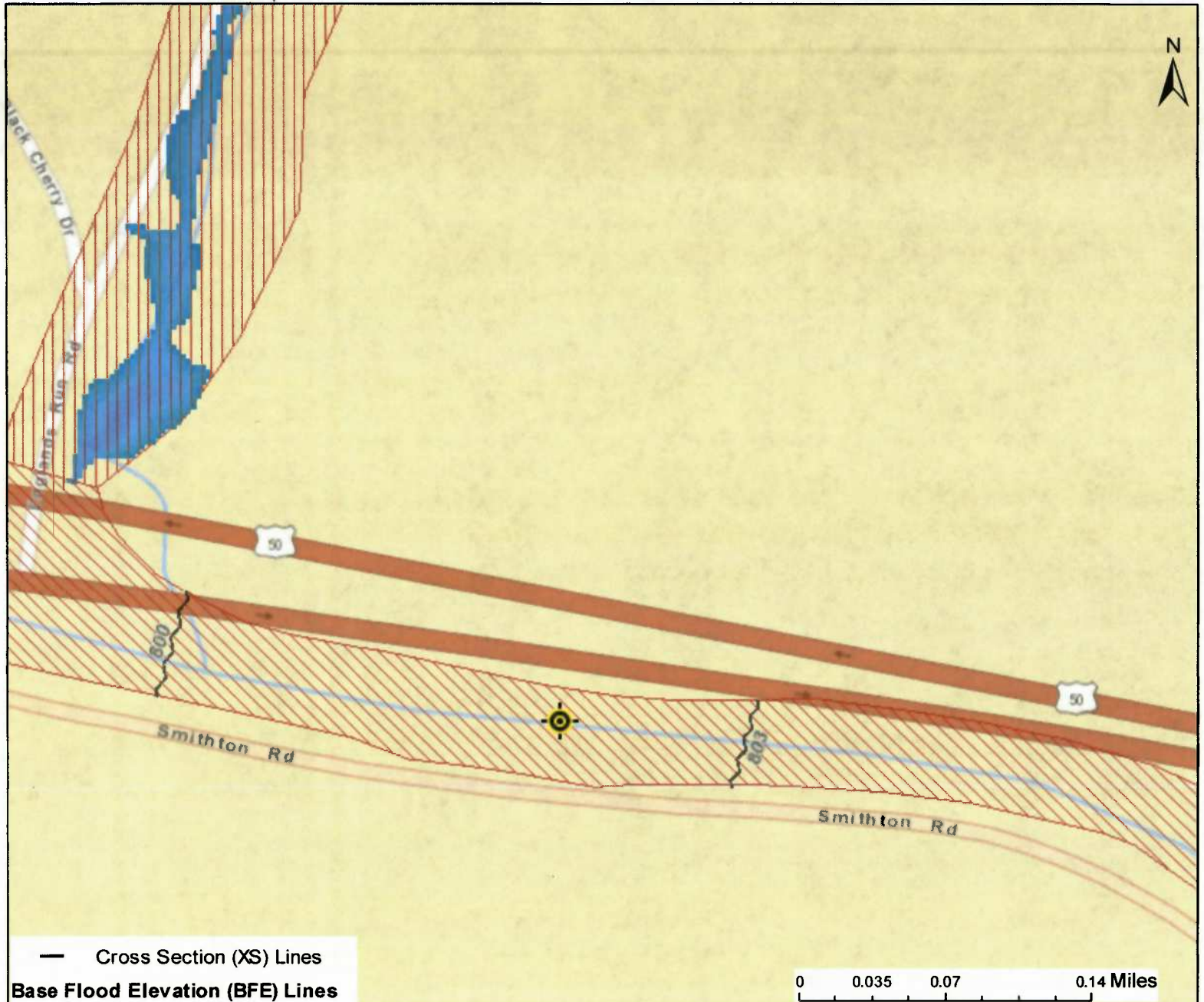
User Notes:

Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	A (Advisory A)
Stream:	Flint Run
FEMA Issued Flood Map:	54017C0130C
Watershed (HUC8):	Little Musringum-Middle Island (5030)
Advisory Flood Height:	About 796 ft
Water Depth:	About 1.9 ft (Source: HEC-RAS)
Elevation:	About 795 ft
Location (long, lat):	(80.697478 W, 39.344510 N)
Location (UTM 17N):	(526069, 4355051)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	N/A
HEC-RAS Model:	Flint Run
Parcel Number:	09-03-0009-0003-0000

Crossing #4

WV Flood Map



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines

- ~ Rule_1
- Floodway
- Flood Hazard Zone**
- Approximate Study (Zone A)
- Detailed Study (AE, AH, AO)
- flood_depth_HEC_RAS**
- High : 134.442
-
- Low : 6.10352e-005

Location of flood information

User Notes:

IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map created on December 27, 2017

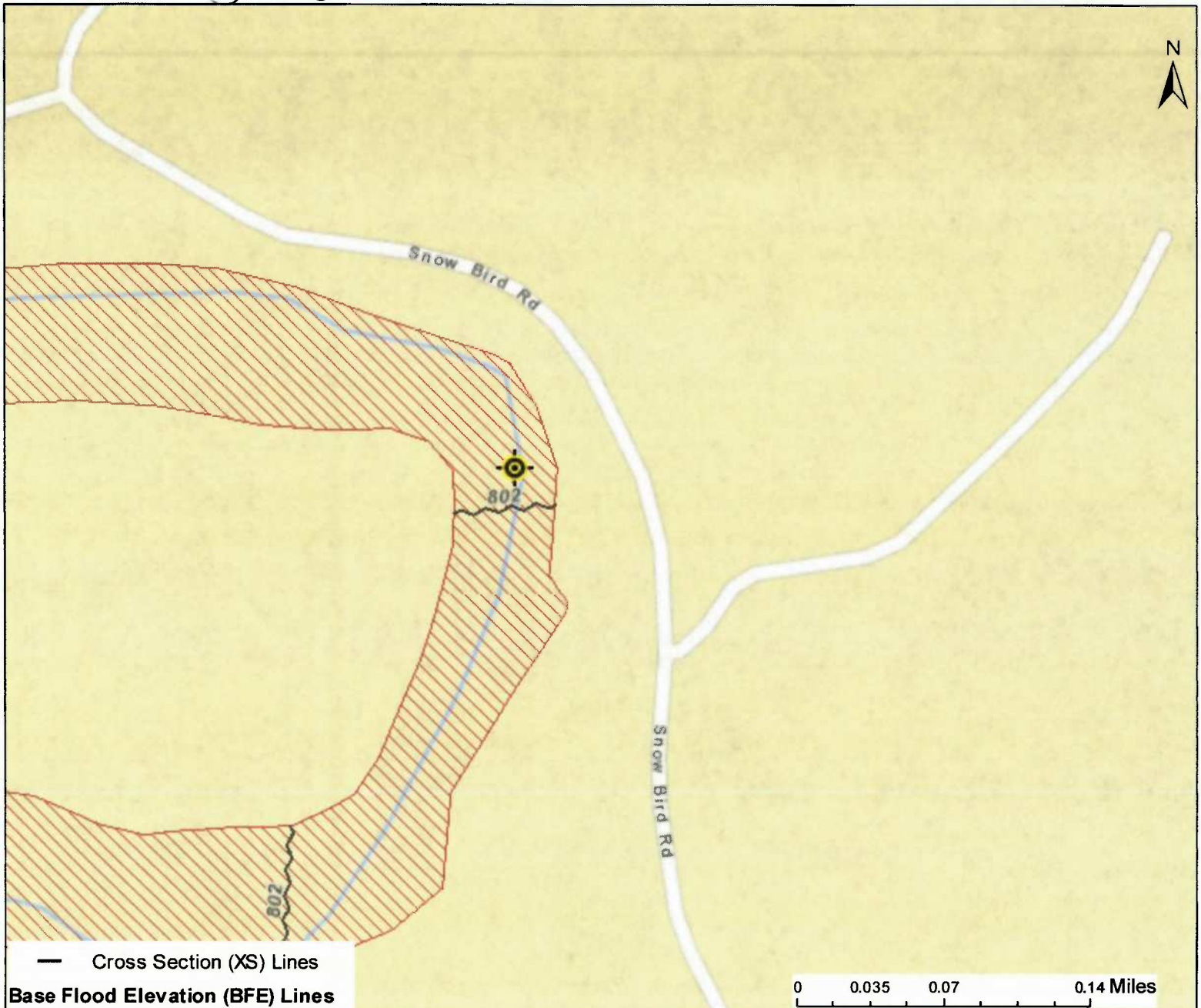
Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	AE
Stream:	Buckeye Creek
FEMA Issued Flood Map:	54017C0140C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	N/A
Water Depth:	About 5.0 ft (Source: HAZUS)
Elevation:	About 816 ft
Location (long, lat):	(80.711125 W, 39.286099 N)
Location (UTM 17N):	(524913, 4348565)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	54017_002
HEC-RAS Model:	N/A
Parcel Number:	No Parcel

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
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Crossing #5

WV Flood Map



— Cross Section (XS) Lines

Base Flood Elevation (BFE) Lines

~ Rule_1

Floodway

Flood Hazard Zone

Approximate Study (Zone A)

Detailed Study (AE, AH, AO)

flood_depth_HEC_RAS

High : 134.442

Low : 6.10352e-005

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IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

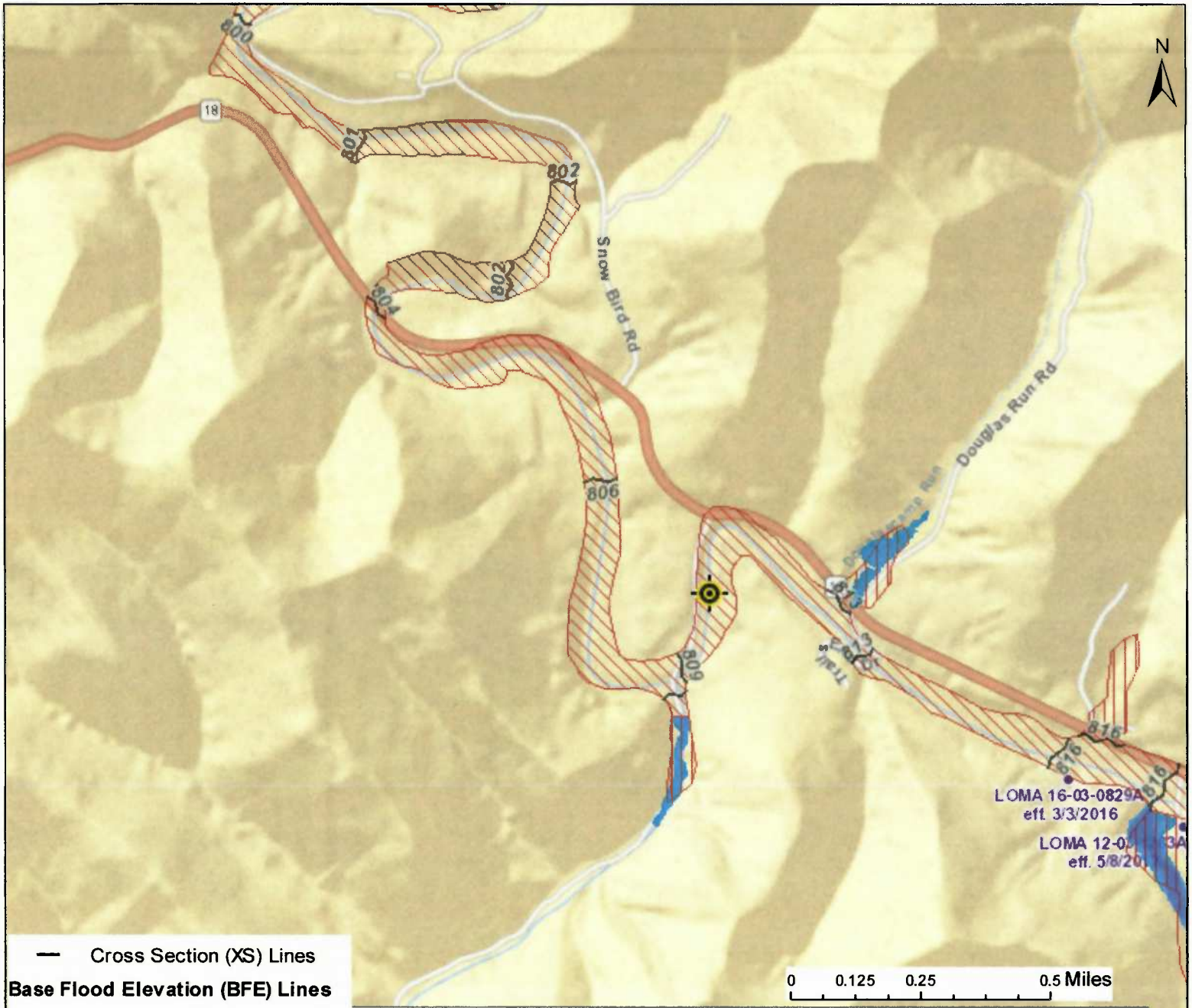
Location of flood information

User Notes:

0 0.035 0.07 0.14 Miles

Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	AE
Stream:	Meathouse Fork
FEMA Issued Flood Map:	54017C0140C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	N/A
Water Depth:	About 16.0 ft (Source: HAZUS)
Elevation:	About 791 ft
Location (long, lat):	(80.728077 W, 39.270220 N)
Location (UTM 17N):	(523457, 4346798)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	54017_015
HEC-RAS Model:	N/A
Parcel Number:	No Parcel



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines
 ~ Rule_1

Floodway
Flood Hazard Zone
 Approximate Study (Zone A)
 Detailed Study (AE, AH, AO)

flood_depth_HEC_RAS
 High : 134.442

 Low : 6.10352e-005

IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Location of flood information
 User Notes:

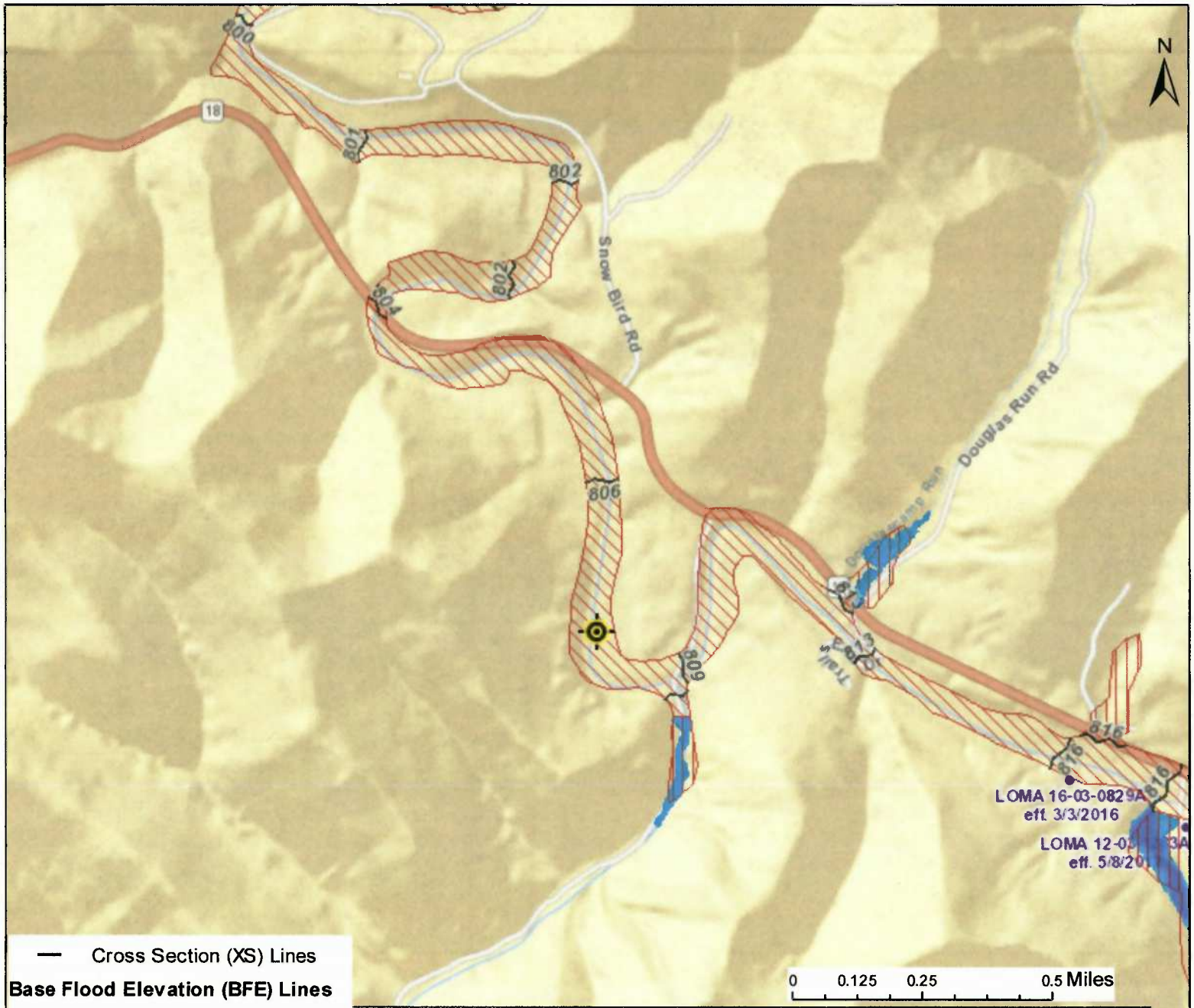
Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	AE
Stream:	Meathouse Fork
FEMA Issued Flood Map:	54017C0140C
Watershed (HUC8):	Little Musringum-Middle Island (5030)
Advisory Flood Height:	N/A
Water Depth:	About 18.0 ft (Source: HAZUS)
Elevation:	About 801 ft
Location (long, lat):	(80.724129 W, 39.261066 N)
Location (UTM 17N):	(523800, 4345783)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	54017_016
HEC-RAS Model:	N/A
Parcel Number:	09-06-0003-0006-0000

Disclaimer:
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 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Crossing # 7

WV Flood Map



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines
 ~ Rule_1

Floodway
Flood Hazard Zone
 Approximate Study (Zone A)
 Detailed Study (AE, AH, AO)

flood_depth_HEC_RAS
 High : 134.442
 Low : 6.10352e-005

Disclaimer:
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IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

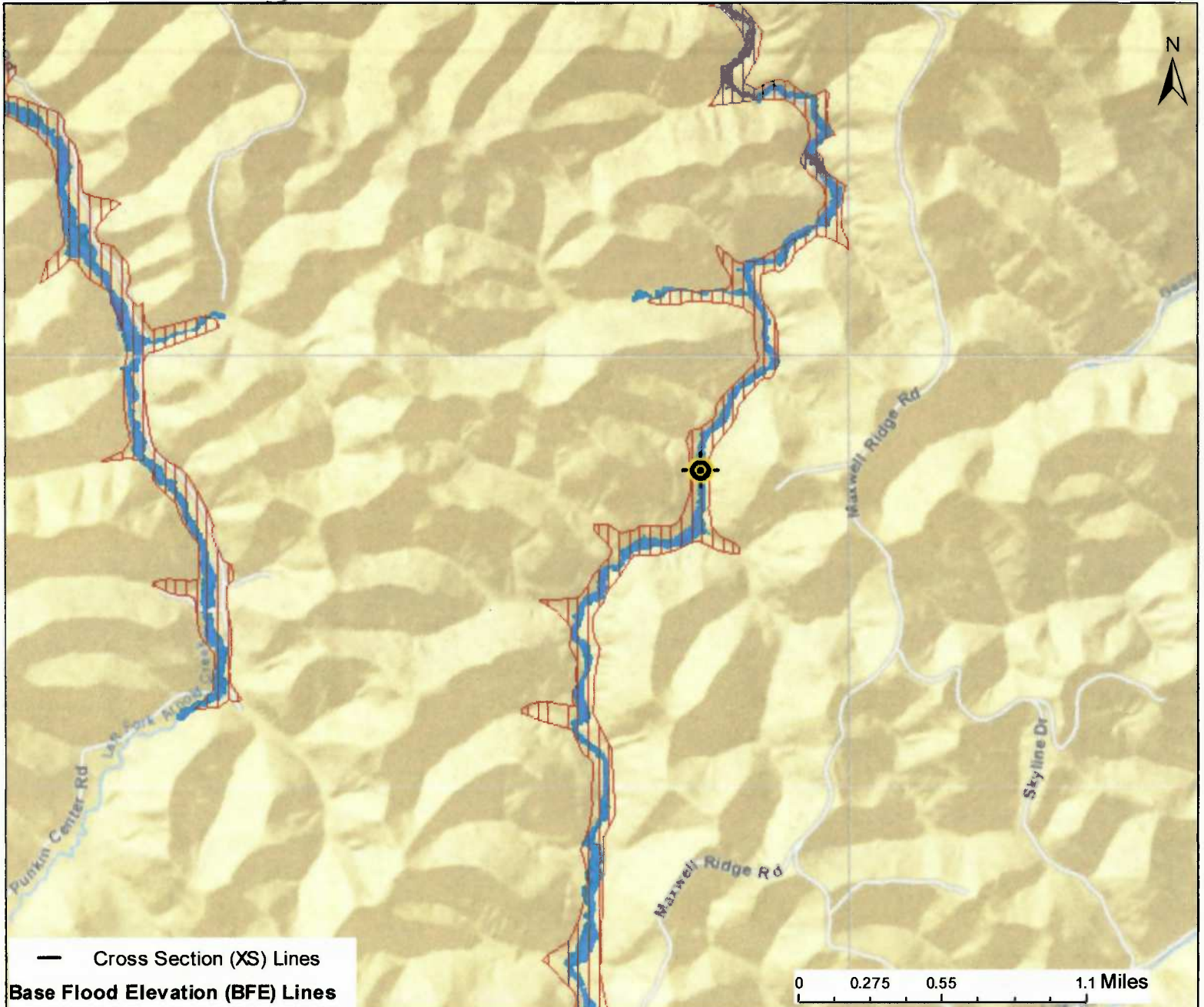
Location of flood information
 User Notes:

Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	AE
Stream:	Meathouse Fork
FEMA Issued Flood Map:	54017C0140C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	N/A
Water Depth:	About 10.0 ft (Source: HAZUS)
Elevation:	About 804 ft
Location (long, lat):	(80.727304 W, 39.260235 N)
Location (UTM 17N):	(523527, 4345690)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	54017_016
HEC-RAS Model:	N/A
Parcel Number:	09-06-0003-0001-0000

Crossing #8

WV Flood Map



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines

- ~ Rule_1
- Floodway
- Flood Hazard Zone**
- Approximate Study (Zone A)
- Detailed Study (AE, AH, AO)

flood_depth_HEC_RAS

- High : 134.442
- Low : 6.10352e-005

IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Location of flood information

User Notes:

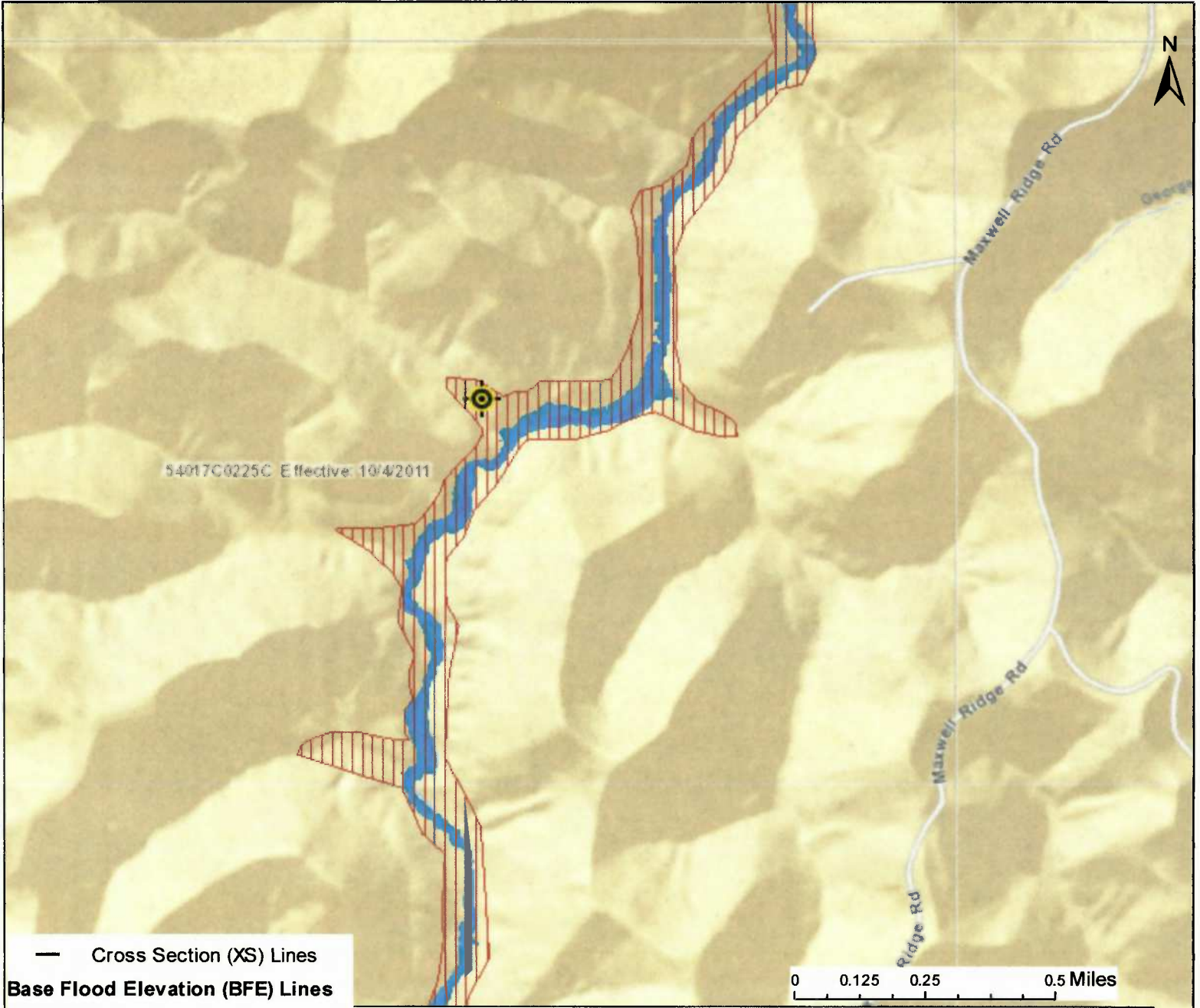
Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	A (Advisory A)
Stream:	Bluestone Creek
FEMA Issued Flood Map:	54017C0225C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	About 869 ft
Water Depth:	About 3.5 ft (Source: HEC-RAS)
Elevation:	About 865 ft
Location (long, lat):	(80.758161 W, 39.245098 N)
Location (UTM 17N):	(520869, 4344003)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	N/A
HEC-RAS Model:	Bluestone Creek
Parcel Number:	09-08-0023-0002-0000

Disclaimer:
 The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Crossing #9

WV Flood Map



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines
 ~ Rule_1

Floodway
Flood Hazard Zone
 Approximate Study (Zone A)
 Detailed Study (AE, AH, AO)

flood_depth_HEC_RAS
 High : 134.442

 Low : 6.10352e-005

IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Location of flood information
 User Notes:

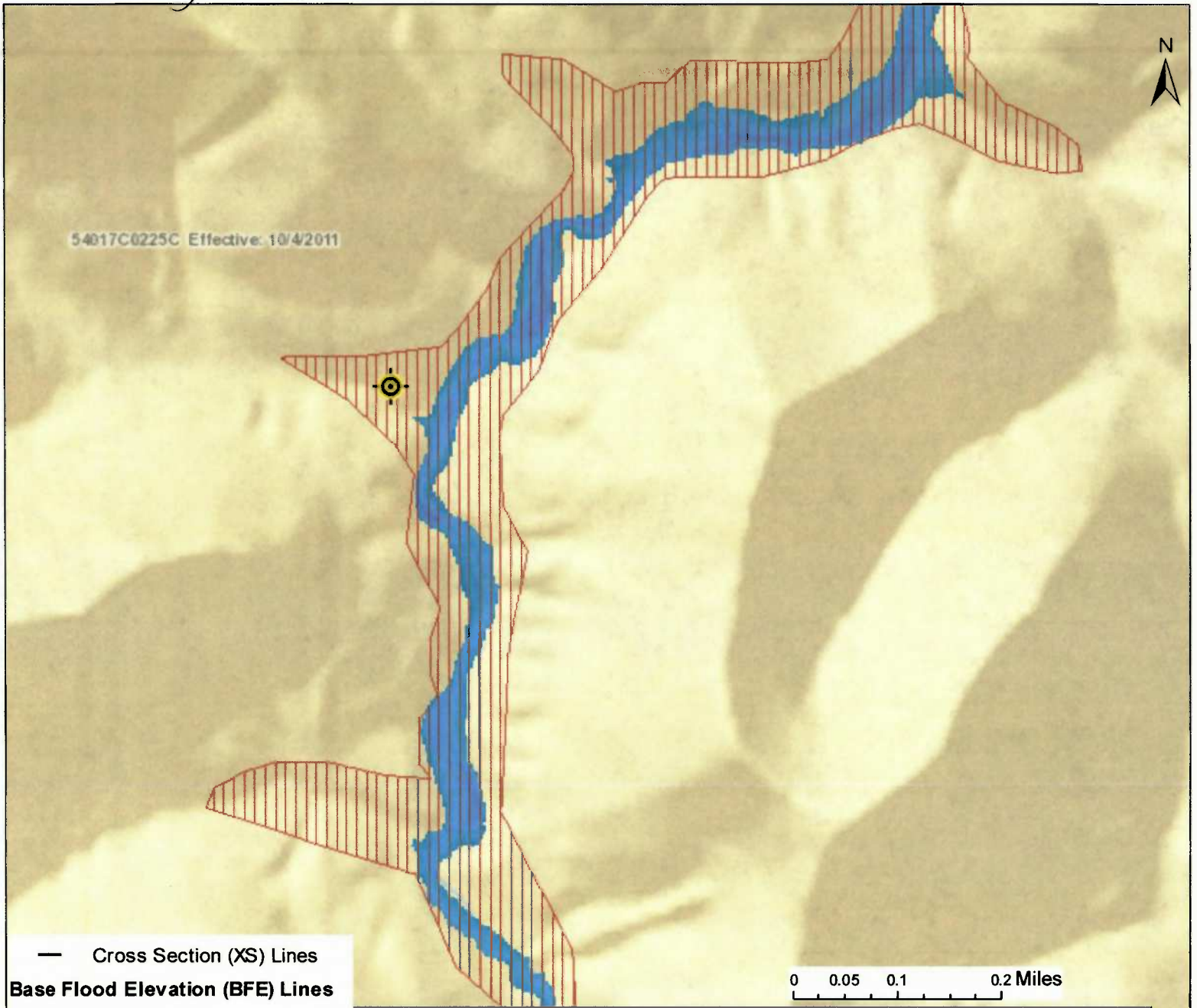
Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	A
Stream:	Bluestone Creek
FEMA Issued Flood Map:	54017C0225C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	N/A
Water Depth:	N/A
Elevation:	About 919 ft
Location (long, lat):	(80.763096 W, 39.242306 N)
Location (UTM 17N):	(520444, 4343692)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	N/A
HEC-RAS Model:	Bluestone Creek
Parcel Number:	09-08-0023-0002-0000

Disclaimer:
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 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Crossing #10

WV Flood Map



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines

0 0.05 0.1 0.2 Miles

- ~ Rule_1
- Floodway
- Flood Hazard Zone**
- Approximate Study (Zone A)
- Detailed Study (AE, AH, AO)
- flood_depth_HEC_RAS**
- High : 134.442
- Low : 6.10352e-005

IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Location of flood information

User Notes:

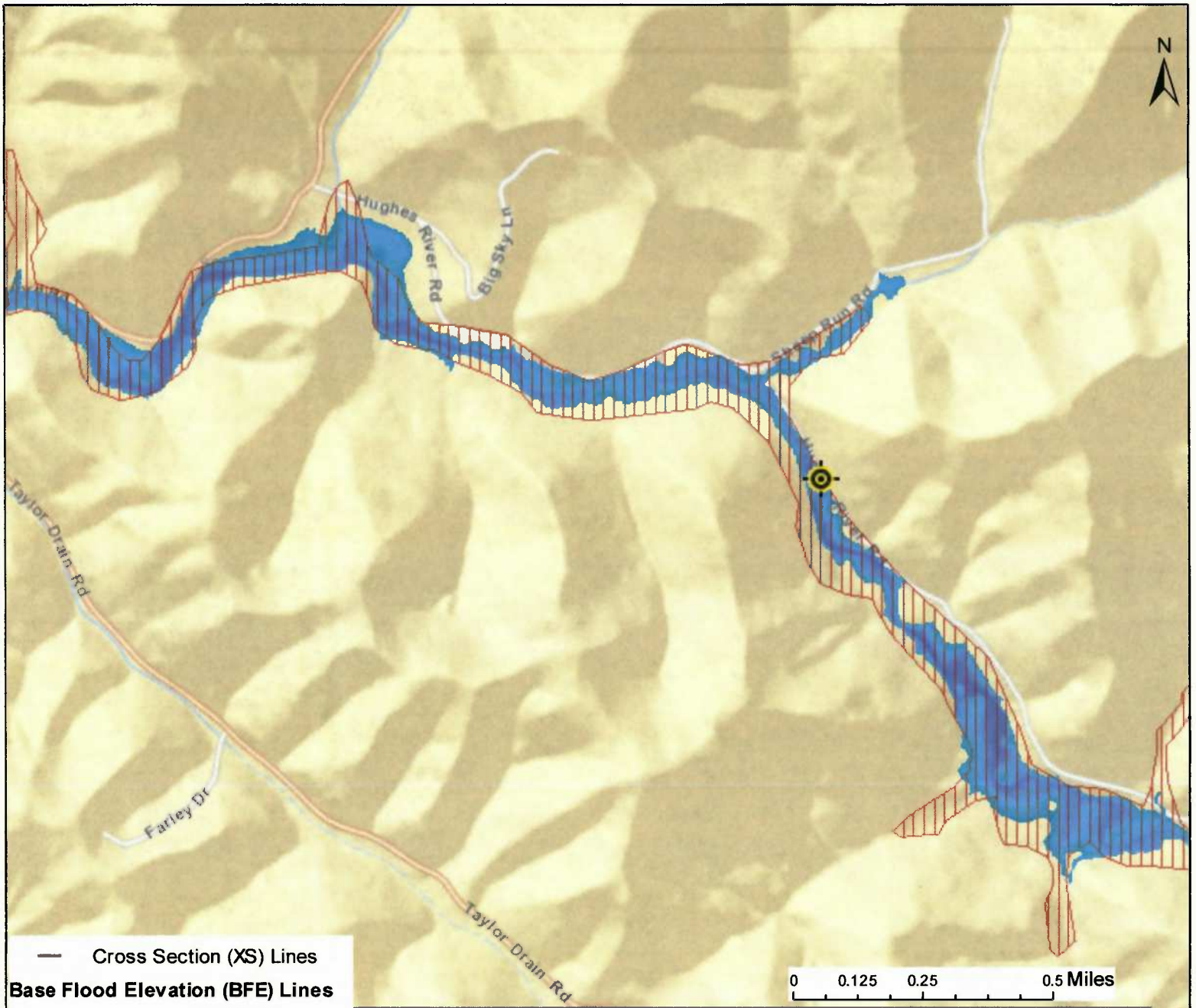
Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	A
Stream:	Bluestone Creek
FEMA Issued Flood Map:	54017C0225C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	N/A
Water Depth:	N/A
Elevation:	About 905 ft
Location (long, lat):	(80.765628 W, 39.239148 N)
Location (UTM 17N):	(520227, 4343341)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	N/A
HEC-RAS Model:	Bluestone Creek
Parcel Number:	09-08-0023-0002-0000

Disclaimer:
 The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Crossing # 11

WV Flood Map



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines

- ~ Rule_1
- Floodway
- Flood Hazard Zone**
- Approximate Study (Zone A)
- Detailed Study (AE, AH, AO)

flood_depth_HEC_RAS

- High : 134.442
-
- Low : 6.10352e-005

IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Location of flood information
 User Notes:

Map created on December 27, 2017

Flood Hazard Area:
 Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.

Flood Hazard Zone: A (Advisory A)

Stream: South Fork Hughes River

FEMA Issued Flood Map: 54017C0225C

Watershed (HUC8): Little Kanawha (5030203)

Advisory Flood Height: About 840 ft

Water Depth: About 6.9 ft (Source: HEC-RAS)

Elevation: About 831 ft

Location (long, lat): (80.832190 W, 39.204289 N)

Location (UTM 17N): (514489, 4339460)

Contacts: Doddridge

CRS Information: N/A

Flood Profile: N/A

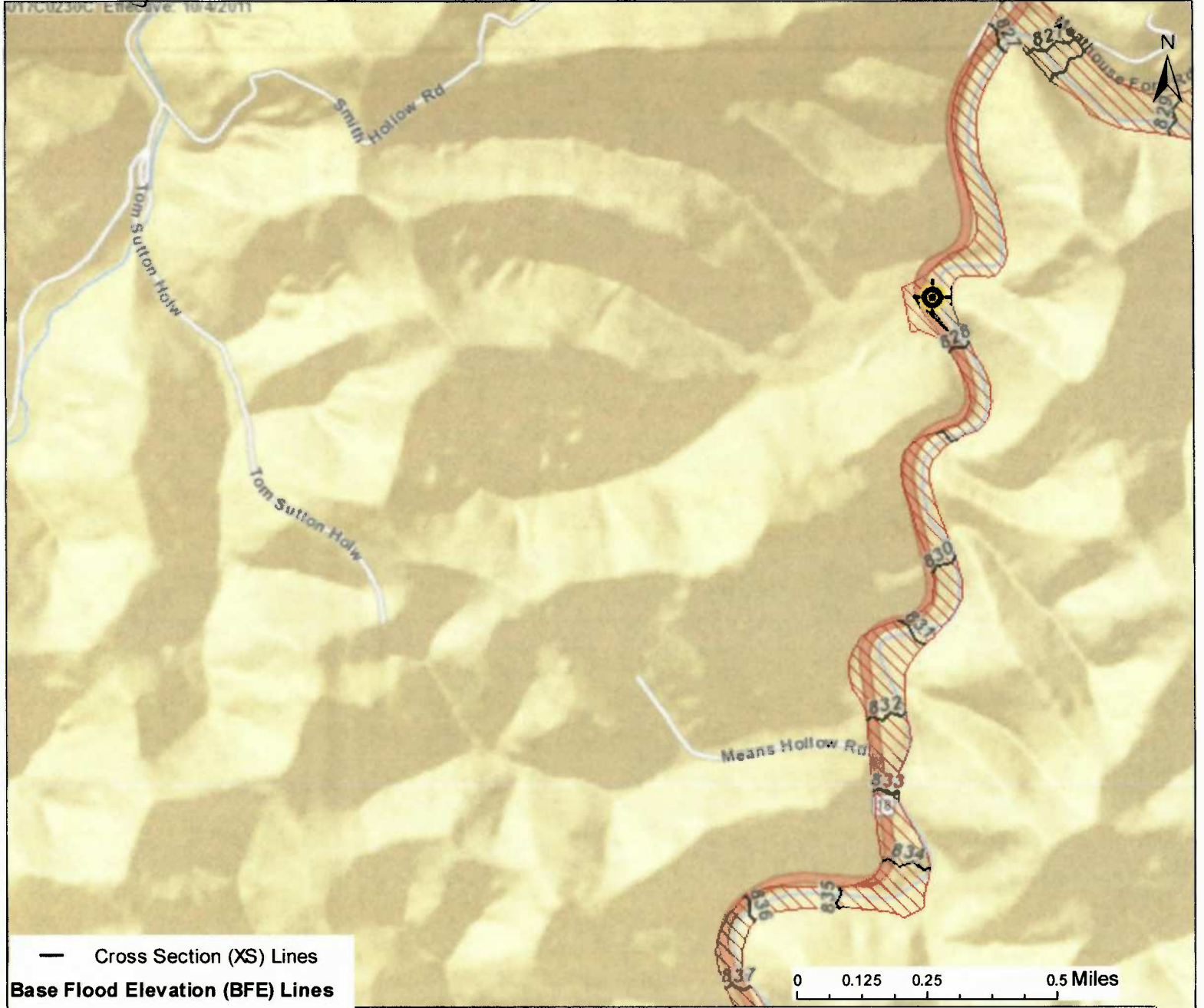
HEC-RAS Model: South Fork Hughes River

Parcel Number: 09-07-0005-0006-0000

Disclaimer:
 The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Crossing # 12

WV Flood Map



— Cross Section (XS) Lines
 Base Flood Elevation (BFE) Lines

~ Rule_1
 Floodway
Flood Hazard Zone
 Approximate Study (Zone A)
 Detailed Study (AE, AH, AO)

flood_depth_HEC_RAS
 High : 134.442
 Low : 6.10352e-005

Disclaimer:
 The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

IRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Location of flood information
 User Notes:

Map created on December 27, 2017

Flood Hazard Area:	Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Hazard Zone:	AE
Stream:	Toms Fork
FEMA Issued Flood Map:	54017C0230C
Watershed (HUC8):	Little Musringum-Middle Island (5030
Advisory Flood Height:	N/A
Water Depth:	About 11.0 ft (Source: HAZUS)
Elevation:	About 819 ft
Location (long, lat):	(80.696298 W, 39.234462 N)
Location (UTM 17N):	(526211, 4342839)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	54017_024
HEC-RAS Model:	N/A
Parcel Number:	09-06-0008-0004-0000

LETTER OF TRANSMITTAL

STAHL SHEAFFER ENGINEERING

5000 Waterdam Plaza Drive, Ste. 120, McMurray, PA 15317
 Phone: 724-960-1111 Fax: 724-960-1162

**TO: Doddridge County Office of Emergency
 Services**
 118 E. Court Street, Room 102
 West Union, WV 26456

DATE: January 25, 2018
PROJECT: Mountaineer XPress Project
ATTENTION: George Eidel
RE: Floodplain permits for pipeline transmission facilities

WE ARE SENDING YOU:

- | | | | | |
|---|---------------------------------------|---|--|---|
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Prints | <input type="checkbox"/> Plans | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under |
| <input type="checkbox"/> Copy of Letter | <input type="checkbox"/> Change Order | <input checked="" type="checkbox"/> Other | <input type="checkbox"/> Samples | <input type="checkbox"/> Specifications |

COPIES	DATE	DWG. NO.	DESCRIPTION
1	January 25, 2018		Additional permits received to date

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> For Approval | <input type="checkbox"/> Approved as Submitted | <input type="checkbox"/> Resubmit copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return corrected prints |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Other: | |

REMARKS: Dear Mr. Eidel: Attached are additional permits that have been received to date for the MXP Pipeline project. Should you have any questions or require additional information, please do not hesitate to call me at 724-960-1111 or email kgleason@sse-llc.com.

Thank you,
 Karen

15-238 File
COPY TO: doddridgecountyfpm@gmail.com

SIGNED: 
 Karen M. Gleason

**Mountaineer XPress Project
Environmental Permits, Approvals, and Consultations**

Agency	Permit/Approval/Consultation	Filing Date (Anticipated)	Receipt Date (Anticipated)
Federal			
Federal Energy Regulatory Commission	Certificate of Public Convenience and Necessity under Section 7(c) of the Natural Gas Act	April 29, 2016	December 29, 2017
U.S. Army Corps of Engineers – Pittsburgh, Huntington Districts	Department of the Army Permits under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act (Joint Permit Application)	July 8, 2016	(January 2018)
U.S. Fish and Wildlife Service – West Virginia Ecological Field Services Office	Consultation under Section 7 of the Endangered Species Act	July 2015 ^a	Technical Guidance Received December 7, 2017 ^b
State: West Virginia			
West Virginia Department of Environmental Protection- Division of Air Quality	Air Permit – Title V Permit	April 29, 2016	December 12, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Water Quality Certificate under Section 401 of the Clean Water Act	July 21, 2016	July 26, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	West Virginia Water Pollution Control Permit – Stormwater Associated with Oil and Gas Related Construction Activities – WV0116815	April 27, 2017	(January 2018)
West Virginia Department of Environmental Protection – Division of Water and Waste Management	National Pollutant Discharge Elimination System – Water Pollution Control Permit for Hydrostatic Testing Water – WV0113069	(November 2017)	(January 2018)
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Large Quantity Water Use Registration ^c	NA	NA
West Virginia Division of Culture and History	Consultation under Section 106 of the National Historic Preservation Act	July 2015	December 15, 2017
West Virginia Division of Natural Resources – Natural Heritage Program	Natural Heritage/Protected Species Consultation	July 2015	Consultation does not result in a permit. The information from the WVDNR contains privileged species information and will not be provided to the County. December 2017 and January 2018
West Virginia Division of Natural Resources – Office of Land and Streams	Stream Activity Permit (Joint Application with the Public Lands Corporation)	October 2017	(culvert, timber mat, and some pipeline crossings) (January 2018) Pending crossings.

^a To comply with the provisions of the Endangered Species Act, Columbia has evaluated and certified that the Project activities are consistent with the U.S. Fish and Wildlife Service approved NiSource/Columbia Multi-Species Habitat Conservation Plan and the resulting programmatic Section 7 consultation.

^b Although the USFWS provided concurrence with the use of the MSHCP in covered lands, and provided technical guidance that a finding of "No Effect" or "Not Likely to Adversely Affect" for protected species outside of MSHCP-covered lands would be supported if Columbia's proposed Mussel Alternative Routes are adopted by FERC. ESA closure is predicated on Columbia receiving FERC authorization of certain reroutes; which have been requested by Columbia but not yet been adopted by FERC.

^c Registration is required the year following the water appropriation; and no consultation is required prior to appropriating water.

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, D.C. 20426

OFFICE OF ENERGY PROJECTS

In Reply Refer To:
OEP/DG2E/Gas 4
Columbia Gas Transmission, LLC
Mountaineer XPress Project
Docket No. CP16-357-000

January 12, 2018

Robert D. Jackson, Manager
Certificates and Regulatory Administration
700 Louisiana Street, Suite 700
Houston, TX 77002-2700

Re: Notice to Proceed with Certain Pre-construction Activities

Dear Mr. Jackson:

I grant your January 8, 2018 request for Columbia Gas Transmission, LLC (Columbia Gas) to commence pre-construction activities associated with certain contractor yards, staging areas, and access roads for the Mountaineer XPress Project. Columbia Gas has committed to having no impacts on wetlands or waterbodies, no tree clearing, and no ground-disturbing activities associated with the use of the requested contractor yards, staging areas, and access roads.

In considering this notice to proceed, we have reviewed your Implementation Plan, also filed on January 8, 2018, as supplemented on January 11, 2018, which included the information necessary to meet the pre-construction conditions of the Commission's December 29, 2017 *Order Issuing Certificate* (Order) in the above-referenced docket related to the activities approved herein. Specifically, this letter authorizes use of the following:

- Yard 16, including access road ARPY016.1;
- Yard 69, including access road ARPY069.1;
- Yard 116, including access road ARPY116.1;
- Yard 118 and access road ARPY118.1;
- Yard 152;
- Yard 155 and access road ARPY155.1;
- Yard 123 and access roads ARPY123.1 and ARPY123.2;
- Yard 124 and access road ARPY124.1;
- Yard 130;
- Staging Area 110 and access road ARPY110.1; and
- Staging Area 111 and access road ARPY111.1.

Preparation or use of the following facilities are **not approved** at this time:

- Sherwood Compressor Station, including access road ARDO007.9;
- White Oak Compressor Station, including access road ARRI021.1; and
- Mount Olive Compressor Station, including access road ARJA006.4.

Approval of these facilities will be considered once all applicable permits and consultations are completed.

In compliance with environmental condition 5 of the Order, I also approve your request for a variance to Part V.B.2.a of the FERC's *Wetland and Waterbody Construction and Mitigation Procedures* regarding the site layout of Yard 118 as it applies to the proximity of Little Fishing Creek.

This letter does **not approve** your requested variances for replacing access road ARDO007.8 at the Sherwood Compressor Station or use of Yards 62 and 64 associated with the Ceredo Compressor Station. We will consider these requests at the same time we consider authorization of commencing construction of the respective compressor stations.

I remind you that Columbia Gas must comply with all applicable remaining terms and conditions of the Order. If you have any questions regarding this approval, contact the environmental project manager, Julia Yuan, at 202-502-8130.

Sincerely,

Dave Swearingen
Chief, Gas Branch 4
Division of Gas – Environment
and Engineering

cc: Public File, Docket No. CP16-357-000

161 FERC ¶ 61,314
UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Before Commissioners: Cheryl A. LaFleur, Neil Chatterjee,
Robert F. Powelson, and Richard Glick.

Columbia Gas Transmission, LLC

Docket Nos. CP16-357-000

Columbia Gulf Transmission, LLC

CP16-361-000

ORDER ISSUING CERTIFICATES AND APPROVING ABANDONMENT

(Issued December 29, 2017)

1. On April 29, 2016, Columbia Gas Transmission, LLC (Columbia Gas) filed an application in Docket No. CP16-357-000, pursuant to sections 7(b) and 7(c) of the Natural Gas Act (NGA)¹ and Part 157 of the Commission's regulations,² for authorization to construct, operate, abandon, replace, and modify facilities on its system in West Virginia (Mountaineer XPress Project).
2. On the same date, Columbia Gulf Transmission, LLC (Columbia Gulf) filed an application in Docket No. CP16-361-00, pursuant to section 7(c) of the NGA and Part 157 of the Commission's regulations, for authorization to construct and operate seven new compressor stations, and to modify one previously authorized compressor station and one existing meter station in Kentucky, Tennessee, and Mississippi (Gulf XPress Project).³
3. As discussed below, the Commission grants the requested authorizations, subject to conditions.

¹ 15 U.S.C. § 717(f) (2012).

² 18 C.F.R. pt. 157 (2017).

³ Columbia Gas filed supplements to its application on May 3 and 6, 2016, and Columbia Gulf filed a supplemental errata to its application on May 4, 2016.

I. Background

4. Columbia Gas, a limited liability corporation formed under Delaware law, is a natural gas company as defined by section 2(6) the NGA.⁴ Its natural gas transmission and storage system extends through Delaware, Kentucky, Maryland, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Virginia, and West Virginia.

5. Columbia Gulf, a limited liability corporation formed under Delaware law, is also a natural gas company as defined under section 2(6) the NGA.⁵ Its natural gas transmission system extends approximately 3,300 miles, from Louisiana through Mississippi and Tennessee to northeastern Kentucky.

II. Proposals

A. Columbia Gas (Mountaineer XPress Project)

6. Columbia Gas proposes to construct and operate the Mountaineer XPress Project to provide up to 2,660,000 dekatherms per day (Dth/d) of firm transportation service from receipt points in West Virginia, Ohio, and Pennsylvania, to delivery points at Columbia Gas' TCO Pool (1,800,000 Dth/d),⁶ which supplies multiple Midwest, Northeast, and Mid-Atlantic markets, and at Columbia Gas' Leach interconnect with Columbia Gulf (860,000 Dth/d), which serves markets in the South and the Gulf Coast.

7. The Mountaineer XPress Project will involve the construction of the following pipeline facilities:

- approximately 164.5 miles of new 36-inch-diameter pipeline (MXP-100) located in Marshall, Wetzel, Tyler, Doddridge, Ritchie, Calhoun, Wirt, Roane, Jackson, Mason, Putnam, and Cabell Counties, West Virginia;
- approximately 6.0 miles of new 24-inch-diameter pipeline (MXP-200) located in Doddridge County, West Virginia;
- approximately 0.4 mile of 30-inch-diameter replacement pipeline on Columbia Gas' existing Lines SM-80 and SM-80 Loop (an approximately 0.2-mile continuous segment on each pipeline) located in Cabell County, West Virginia; and

⁴ 15 U.S.C. § 717a(6) (2012).

⁵ *Id.*

⁶ The TCO Pool is the main pooling point on Columbia Gas' system.

- abandonment of the segments of the existing Line SM-80 and SM-80 Loop that are being replaced.

8. Columbia Gas also proposes to construct and operate the following aboveground facilities:

- the MXP-100 Tie-in Site – a bi-directional tie-in facility at the beginning of the MXP-100 pipeline in Marshall County, West Virginia, with pig launcher/receiver equipment connected to Columbia Gas' Leach XPress Pipeline⁷;
- the new Sherwood Compressor Station at the beginning of the Sherwood Lateral on the MXP-100 pipeline in Doddridge County, West Virginia, consisting of two Solar Taurus 60 natural gas turbine-driven compressor units, and two horsepower (hp) Solar Mars 100 natural gas turbine-driven compressor units producing approximately 47,200 ISO rated horsepower, pressure regulation, two pig launcher/receivers for interconnections with the MXP-100 pipeline and the MXP-200 Sherwood Lateral pipeline, and a connection to a planned, non-jurisdictional MarkWest Energy Partners pipeline;
- the Sherwood MXP-200 Tie-in Site – a new bi-directional tie-in facility on the MXP-200 Sherwood Lateral pipeline in Doddridge County, West Virginia, with a pig launcher/receiver, connecting the proposed MXP-200 Sherwood Lateral pipeline to the existing Columbia Gas Line 1983;
- the new White Oak Compressor Station on the MXP-100 pipeline in Calhoun County, West Virginia, consisting of two 22,400 hp Solar Titan 130E natural gas turbine-driven compressor units producing approximately 44,800 ISO rated horsepower and two pig launcher/receivers;
- the new Ripley Regulating Station on the MXP-100 pipeline in Jackson County, West Virginia, to receive and deliver natural gas supplies to and from Columbia Gas' existing X59M1⁸ pipeline;

⁷ The Commission authorized the construction and operation of the Leach XPress Project on January 19, 2017. *Columbia Gas Transmission, LLC*, 158 FERC ¶ 61,046 (2017).

⁸ Line X59M1 is the primary transmission pipeline through which natural gas is injected into and withdrawn from Columbia's existing Ripley Storage Field.

- the new Mt. Olive Compressor Station on the MXP-100 pipeline in Jackson County, West Virginia, consisting of three 20,500 hp Solar Titan 130 natural gas turbine-driven compressor units producing approximately 61,500 ISO rated horsepower and two pig launcher/receivers;
- the Saunders Creek Tie-in Site – a new regulator station on the MXP-100 pipeline in Cabell County, West Virginia, to deliver natural gas to Columbia Gas' existing SM80 and SM80 Loop pipelines;
- modifications to the Lone Oak Compressor Station in Marshall County, West Virginia, to add one compressor unit producing approximately 15,900 ISO rated horsepower;
- modifications to the Ceredo Compressor Station in Wayne County, West Virginia, to add two compressor units producing approximately 43,000 ISO rated horsepower. As part of the Mountaineer XPress Project, a new Solar Titan 250 natural gas turbine-driven compressor unit of 30,000 hp will be installed at the Ceredo Compressor Station, and Columbia Gas will replace existing natural gas-fired Unit No. 9 of 12,500 hp with a new electric motor driven Unit No. 13 of 13,000 hp;
- modifications to the Elk River Compressor Station in Kanawha County, West Virginia to add one Solar Mars 100 natural gas turbine-driven compressor unit producing approximately 15,900 ISO rated horsepower; and
- various appurtenances.

9. Columbia Gas explains that it is proposing to abandon and replace 0.4 mile of its existing SM-80/SM-Loop pipeline, as described above, to restore its original maximum allowable operating pressure (MAOP) of 935 pounds per square inch, gauge (psig). Columbia Gas states that this line connects the Leach Interconnect to Columbia Gas' Line WB⁹ and that restoration of the original MAOP on this line will benefit existing shippers as well as expansion shippers. Columbia Gas states that the costs of replacing these portions of its facilities will be shared by its existing customers and shippers on the Mountaineer XPress Project pursuant to Columbia Gas' Modernization Settlement that was approved by the Commission on March 17, 2016.¹⁰ Specifically, 50 percent of the

⁹ Columbia Gas received authorization in a separate proceeding to replace another section of its Line SM-80 pipeline system. *Columbia Gas Transmission, LLC*, 156 FERC ¶ 61,125 (2016).

¹⁰ *Columbia Gas Transmission, LLC*, 154 FERC ¶ 61,208 (2016).

estimated costs of replacing the existing SM-80/SM-Loop pipeline segments are included in the incremental rates for the Mountaineer XPress Project shippers, and the remaining 50 percent of estimated costs will be recovered from existing customers through operation of the Capital Cost Recovery Mechanism (CCRM) provided for in the Modernization II Settlement.¹¹

10. Regarding the replacement of Unit No. 9 (12,500 hp) with Unit No. 13 (13,000 hp) at the Ceredo Compressor Station, Columbia Gas explains that the replacement costs (\$30 million) will be recovered from existing shippers through the CCRM in the Modernization II Settlement. Columbia Gas proposes to attribute the fixed costs associated with the 500 hp of additional capacity to the Mountaineer XPress Project.

11. Columbia Gas held a non-binding open season ending on September 20, 2014, and a binding open season from March 27 through April 23, 2015, for service on the Mountaineer XPress Project. Columbia Gas also offered to evaluate proposals from existing shippers to turn back firm transportation capacity under existing service agreements during the binding open season (reverse open season), but received no conforming offers. As a result of the open season, Columbia Gas executed binding precedent agreements with eight shippers for approximately 98 percent of the project's available transportation service of 2,660,000 Dth/d for a primary term of 15 years.¹² The project shippers have elected to pay negotiated rates.

12. Columbia Gas estimates the proposed facilities will cost approximately \$2.059 billion. Columbia Gas proposes to establish an incremental recourse reservation rate for firm transportation service on the project facilities under Rate Schedule FTS (Firm Transportation Service). Columbia Gas also proposes to charge its existing commodity rate under Rate Schedule FTS, generally applicable fuel retention and electric power rates, and other applicable charges set forth in Columbia Gas' FERC Gas Tariff for service on the project.

B. Columbia Gulf (Gulf XPress Project)

13. Columbia Gulf proposes to construct the Gulf XPress Project to provide up to 860,000 Dth/d of firm transportation service from an existing interconnection with

¹¹ The CCRM allows Columbia to make annual limited filings under section 4 of the NGA to charge an additive capital demand rate, to recover Columbia Gas' revenue requirement related to certain eligible facilities.

¹² Columbia filed the precedent agreements in Exhibit I of its application and requested that the agreements be accorded privileged and confidential treatment pursuant to section 388.112 of the Commission's Rules of Practice and Procedure.

Columbia Gas in Leach, Kentucky, south to delivery points on Columbia Gulf's system including the Gulf Mainline Pool.

14. Specifically, Columbia Gulf proposes to construct seven new compressor stations that will allow for bi-directional compression on Columbia Gulf's Lines 200 and 300 and gas flow into Columbia Gulf's Line 100:

- the new 44,800 hp Morehead Compressor Station located in Rowan County, Kentucky, consisting of two Solar Turbines Titan 130E natural gas turbine-driven compressor units, 42-inch-diameter suction and discharge piping, two 30-inch-diameter mainline valves, and one 36-inch mainline valve;
- the new 41,000 hp Paint Lick Compressor Station located in Garrard County, Kentucky, consisting of two Solar Turbines Titan 130 natural gas turbine-driven compressor units, 42-inch-diameter suction and discharge piping, two 30-inch-diameter mainline valves, and one 36-inch mainline valve;
- the new 31,800 hp Goodluck Compressor Station located in Metcalfe County, Kentucky, consisting of two Solar Turbines Mars 100 natural gas turbine-driven compressor units, 42-inch-diameter suction and discharge piping, two 30-inch-diameter mainline valves, and one 36-inch mainline valve;
- the new 41,000 hp Cane Ridge Compressor Station located in Davidson County, Tennessee, consisting of two Solar Turbines Titan 130 natural gas turbine-driven compressor units, 42-inch-diameter suction and discharge piping, two 30-inch-diameter mainline valves, and one 36-inch mainline valve;
- the new 31,800 hp Clifton Junction Compressor Station located in Wayne County, Tennessee, consisting of two Solar Turbines Mars natural 100 gas turbine-driven compressor units, 42-inch-diameter suction and discharge piping, two 30-inch diameter mainline valves, and one 36-inch mainline valve;
- the new 31,800 Albany Compressor Station located in Union County, Mississippi, consisting of two Solar Turbines Mars 100 natural gas turbine-driven compressor units, 42-inch-diameter suction and discharge piping, two 30-inch-diameter mainline valves, and one 36-inch mainline valve; and
- the new 31,800 hp Holcomb Compressor Station located in Grenada

County, Mississippi, consisting of two Solar Turbines Mars 100 natural gas turbine-driven compressor units, 42-inch-diameter suction and discharge piping, two 30-inch-diameter mainline valves, and one 36-inch mainline valve.

15. In addition, Columbia Gulf proposes:

- modifications to the previously authorized 36,000 hp Grayson Compressor Station located in Carter County, Kentucky, consisting of the addition of one 15,900 hp Solar Turbines Mars 100 natural gas turbine-driven compressor unit and associated piping;¹³
- modification to the existing Leach C Meter Station located in Boyd County, Kentucky, consisting of upgrades to flow control capabilities to accommodate increased capacity on Line 300 and other appurtenant facilities; and
- various appurtenances.

16. Columbia Gulf held a binding open season from March 27 through April 23, 2015, for service on the Gulf XPress Project. Columbia Gulf also offered to evaluate proposals from existing shippers to turn back firm transportation capacity under existing service agreements during the binding open season (reverse open season), but received no conforming bids. As a result of the open season, Columbia Gulf executed binding precedent agreements with four shippers for 860,000 Dth/d of firm Gulf XPress Project transportation service.¹⁴ The project shippers elected to pay negotiated rates.

17. Columbia Gulf estimates the proposed facilities will cost approximately \$674.3 million. Columbia Gulf proposes to establish an incremental recourse reservation rate under Rate Schedule FTS-1 for firm transportation service on the project facilities. Columbia Gulf also proposes to charge its existing commodity rate under Rate Schedule FTS-1 and generally applicable fuel retention rates for service on the project.

¹³ Columbia Gulf received authorization from the Commission to construct and operate the Grayson Compressor Station in conjunction with other facilities supporting the Rayne XPress Expansion Project in Docket No. CP15-539-000 on January 19, 2017, *Columbia Gas Transmission, LLC*, 158 FERC ¶ 61,046.

¹⁴ Columbia Gulf filed the precedent agreements in Exhibit I of its application and requested that the agreements be accorded privileged and confidential treatment pursuant to section 388.112 of the Commission's Rules of Practice and Procedure.

III. Procedural Issues

Notice, Interventions, Comments, and Protests

18. Notices of the applications in Docket Nos. CP16-357-000 and CP16-361-000 were published in the *Federal Register* on May 20, 2016.¹⁵ The parties listed in Appendix A filed timely, unopposed motions to intervene, which are granted automatically pursuant to Rule 214 of the Commission's Rules of Practice and Procedure.¹⁶ Friends of Mill Creek Greenway, Mill Creek Park Section; Statoil Natural Gas LLC; and Christopher Tuley and Heather Hixson-McGovern of Keep Southeast Nashville Healthy; filed late motions to intervene in Docket No. CP16-361-000.¹⁷ We find that the late intervenors have demonstrated an interest in the proceeding and that granting intervention at this stage will not cause undue delay or disruption, or otherwise prejudice the applicant or other parties. Accordingly, we grant the motions for late intervention.¹⁸

19. Many comments supporting the projects were filed. Several landowners and environmental groups expressed opposition to the projects, raising various issues including noise, air quality, water quality, public health, safety, siting, zoning, and economic concerns. The concerns raised are addressed in the Environmental Impact Statement (EIS) and as appropriate, in this order.

¹⁵ 81 Fed. Reg. 31,929 and 81 Fed. Reg. 31,935.

¹⁶ 18 C.F.R. § 385.214(c) (2017).

¹⁷ The Commission's regulations provide that interventions are timely if filed during the comment period on the notice of the application or if filed on environmental grounds during the comment period of the draft EIS. 18 C.F.R. §§ 157.10, 380.10(a), 385.214(c) (2017). Thus, if interventions are filed in between these periods, the intervention is late. *See Florida Southeast Connection, LLC*, 154 FERC ¶ 61,080, at P 40 n.13 (2016). However, the Commission has a liberal policy of accepting late interventions in natural gas certificate proceedings.

¹⁸ 18 C.F.R. § 385.214(d) (2017).

IV. Discussion

20. Since the applicants propose to abandon, construct, and operate facilities used to transport natural gas in interstate commerce, subject to the jurisdiction of the Commission, the proposals are subject to the requirements of subsections (b), (c), and (e) of section 7 of the NGA.¹⁹

A. Application of Certificate Policy Statement

21. The Certificate Policy Statement provides guidance for evaluating proposals to certificate new construction.²⁰ The Certificate Policy Statement establishes criteria for determining whether there is a need for a proposed project and whether the proposed project will serve the public interest. The Certificate Policy Statement explained that in deciding whether to authorize the construction of major new pipeline facilities, the Commission balances the public benefits against the potential adverse consequences. The Commission's goal is to give appropriate consideration to the enhancement of competitive transportation alternatives, the possibility of overbuilding, subsidization by existing customers, the applicant's responsibility for unsubscribed capacity, the avoidance of unnecessary disruptions of the environment, and the unneeded exercise of eminent domain in evaluating new pipeline construction.

22. Under this policy, the threshold requirement for applicants proposing new pipeline projects is that the pipeline must be prepared to financially support the project without relying on subsidization from its existing customers. The next step is to determine whether the applicant has made efforts to eliminate or minimize any adverse effects the project might have on the applicant's existing customers, existing pipelines in the market and their captive customers, or landowners and communities affected by the construction. If residual adverse effects on these interest groups are identified after efforts have been made to minimize them, we will evaluate the project by balancing the evidence of public benefits to be achieved against the residual adverse effects. This is essentially an economic test. Only when the benefits outweigh the adverse effects on economic interests will we proceed to consider the environmental analysis where other interests are addressed.

¹⁹ 15 U.S.C. §§ 717f(b), (c), (e) (2012).

²⁰ *Certification of New Interstate Natural Gas Pipeline Facilities*, 88 FERC ¶ 61,227 (1999), *clarified*, 90 FERC ¶ 61,128, *further clarified*, 92 FERC ¶ 61,094 (2000) (Certificate Policy Statement).

1. Columbia Gas (Mountaineer XPress Project)

23. As discussed above, the threshold requirement for pipelines proposing new projects is that the pipeline must be prepared to financially support the project without relying on subsidization from its existing customers. The Commission has determined that, in general, where a pipeline proposes to charge incremental rates for new construction that are higher than the existing system rates, the pipeline satisfies the threshold requirement that the project will not be subsidized by existing shippers.²¹ As discussed below, Columbia Gas proposes an incremental recourse reservation rate that is higher than its existing system-wide rate to recover the cost of the project. Moreover, we are approving Columbia Gas' request to charge its existing fuel and power cost surcharges because, as discussed below, Columbia Gas submitted a fuel study that shows that system fuel surcharges will decrease with the inclusion of the billing determinants and fuel costs related to the expansion. Under these circumstances, we find Columbia Gas' existing customers will not subsidize the project.

24. We also find that the proposed project will not adversely affect Columbia Gas' existing customers. The Mountaineer XPress Project will enable Columbia Gas to provide incremental firm transportation service to eight project shippers. There is no evidence that the project will degrade service to existing customers and none of Columbia Gas' existing customers have raised any concern that the new service will adversely affect existing services.

25. We further find that there will be no adverse impacts on other pipelines or their captive customers because the project will serve new demand and not replace firm transportation service on any other existing pipeline. No pipelines or their captive customers have protested the application.

26. Regarding impacts on landowners and communities, the Mountaineer XPress Project will impact 3,647.1 acres during construction and permanently affect 1,076.4 acres during operation. Columbia Gas participated in the Commission's pre-filing process and has been working to address landowner and community concerns and input. For example, Columbia Gas modified its pipeline route in 24 specific locations in response to landowner concerns and resource issues raised during the pre-filing process. Further, subsequent to the filing of the formal application, Columbia Gas adopted over 50 pipeline route variations and other adjustments in response to landowner concerns and

²¹ See, e.g., *Dominion Transmission, Inc.*, 155 FERC ¶ 61,106 (2016).

resource issues.²² We also note that approximately 22 percent of the proposed pipeline is co-located with existing utilities. Accordingly, we find that Columbia Gas has taken adequate steps to minimize adverse impacts on landowners and surrounding communities.

2. Columbia Gulf (Gulf XPress Project)

27. As is the case with Columbia Gas with respect to its Mountaineer XPress Project, Columbia Gulf also proposes an incremental recourse reservation rate that is higher than its existing system-wide rate to recover the cost of its Gulf XPress Project. Moreover, we are approving Columbia Gulf's request to charge their existing fuel retention rate because, as discussed below, Columbia Gulf submitted a fuel study that shows that system fuel use will decrease as a result of the project, thereby decreasing fuel costs to existing customers. Under these circumstances, we find Columbia Gulf's existing customers will not subsidize the project.

28. We also find that the proposed project will not adversely affect Columbia Gulf's existing customers. The Gulf XPress Project will enable Columbia Gulf to provide incremental firm transportation service to four shippers. There is no evidence that the project will degrade service to existing customers and none of Columbia Gulf's existing customers have raised any concern that the new service will adversely affect existing services.

29. We further find that there will be no adverse impacts on other pipelines or their captive customers because the project will serve new demand and not replace firm transportation service on any other existing pipeline. No pipelines or their captive customers have protested the application.

30. Regarding impacts on landowners and communities, the Gulf XPress Project will impact 198.1 acres during construction and permanently affect 81.6 acres during operation.²³ The project involves additional compression at new and existing compressor stations along Columbia Gulf's pipeline system, with no greenfield pipeline and associated rights-of-way. In addition, Columbia Gulf has purchased or leased all lands required for construction and operation of its proposed facilities, including additional properties surrounding compressor station sites that are not part of the construction work areas. Accordingly, we find that Columbia Gulf has taken adequate steps to minimize adverse economic impacts on landowners and surrounding communities.

²² Final EIS at 3-18 – 3-20.

²³ Final EIS at 2-16.

3. Need for the Projects

31. Numerous parties and commenters challenge the need for the projects.²⁴ Some commenters claim that there are alternatives available to the Mountaineer XPress and Gulf XPress Projects for meeting future demand, including renewable energy and capacity on existing interstate pipeline.²⁵ Several commenters contend that the projects will not benefit local communities because gas transported on the projects will be exported.²⁶ Finally, in their jointly filed comments, the Allegheny Defense Project, Ohio Valley Environmental Coalition, and Sierra Club (collectively Allegheny) express concern that the projects represents an overbuilding of pipeline capacity in the Appalachian basin, which the Commission must consider in its market need analysis.²⁷

Columbia Gas' and Columbia Gulf's Answers

32. On May 14 and May 15, 2017, respectively, Columbia Gas and Columbia Gulf filed answers disputing the commenters' claims that the projects were not needed. Columbia Gas maintains that substantial need for the Mountaineer XPress Project has been demonstrated by precedent agreements for long-term firm service utilizing approximately 98 percent of the project's capacity. Similarly, Columbia Gulf maintains that that substantial need for the Gulf XPress Project has been demonstrated by precedent

²⁴ Many of the commenters conflate the balancing of economic benefits (market need) and effects under the Certificate Policy Statement with the distinct description of purpose and need in the final EIS. As discussed in the Environmental Section of this order, the purpose and need statement in the final EIS complied with Council on Environmental Quality (CEQ) regulations that provide that this statement "shall briefly specify the underlying purpose and need to which the agency is responding in proposing the alternatives including the proposed actions" for purposes of its environmental analysis. 40 C.F.R. § 1502.13 (2017).

²⁵ See, e.g., March 27, 2017 Comment of Ohio Valley Environmental Coalition (Ohio Coalition Comments), and March 30, 2017 Comment of Larry Dadisman in Docket No. CP16-357-000.

²⁶ See, e.g., April 24, 2017 Comment of Marijana Beram; April 24, 2017 Comment of William Robertson, and July 5, 2016 Comment of Glenda Kirby.

²⁷ Allegheny April 24, 2017 Comments at 55-66 (citing Institute for Energy Economics and Financial Analysis, Risks Associated with Natural Gas Pipeline Expansion in Appalachia, at 4 (April 2016), <http://ieefa.org/wp-content/uploads/2016/05/Risks-Associated-With-Natural-Gas-Pipeline-Expansion-in-Appalachia-April-2016.2.pdf>).

agreements for long-term firm service utilizing 100 percent of the project's capacity. Both applicants assert that there is no evidence to suggest overbuilding is an issue in these proceedings.

Commission Determination

33. The Certificate Policy Statement established a policy under which the Commission will allow an applicant to rely on a variety of relevant factors to demonstrate need, rather than continuing to require that a percentage of the proposed capacity be subscribed under long-term precedent or service agreements.²⁸ These factors might include, but are not limited to, precedent agreements, demand projections, potential cost savings to consumers, or a comparison of projected demand with the amount of capacity currently serving the market.²⁹ The Commission stated that it will consider all such evidence submitted by the applicant regarding need. Nonetheless, the Certificate Policy Statement made clear that, although precedent agreements are no longer required to be submitted, they are still significant evidence of demand for the project.³⁰ As the court stated in *Minisink Residents for Environmental Preservation & Safety v. FERC*, and again in *Myersville Citizens for a Rural Community, Inc., v. FERC*, nothing in the Certificate Policy Statement or in any precedent construing it suggest that the policy statement requires, rather than permits, the Commission to assess a project's benefits by looking beyond the market need reflected by the applicant's precedent agreements with shippers.³¹ Moreover, it is current Commission policy to not look beyond precedent or service agreements to make judgments about the needs of individual shippers.³²

²⁸ Certificate Policy Statement, 88 FERC at 61,747. Prior to the Certificate Policy Statement, the Commission required a new pipeline project to have contractual commitments for at least 25 percent of the proposed project's capacity. See Certificate Policy Statement, 88 FERC at 61,743. Both projects, Columbia Gas at 98 percent subscribed, and Columbia Gulf at 100 percent subscribed, would have satisfied this prior, more stringent, requirement.

²⁹ *Id.* at 61,747.

³⁰ *Id.* at 61,748.

³¹ *Minisink Residents for Env'tl. Pres. and Safety v. FERC*, 762 F.3d 97, 110 n.10 (D.C. Cir. 2014); see also *Myersville Citizens for a Rural Cmty., Inc., v. FERC*, 783 F.3d 1301, 1311 (D.C. Cir. 2015).

³² Certificate Policy Statement, 88 FERC at 61,744 (citing *Transcontinental Gas Pipe Line Corp.*, 82 FERC ¶ 61,084, at 61,316 (1998)). See also *Constitution Pipeline Co., LLC*, 154 FERC ¶ 61,046, at P 21 (2016) ("Although the Certificate Policy

34. We find that Columbia Gas and Columbia Gulf have sufficiently demonstrated that there is market demand for the projects. Columbia Gas has entered into long-term, firm precedent agreements with eight shippers for approximately 98 percent of the 2,660,000 Dth/d of incremental firm service made possible by the project. Columbia Gulf has entered into long-term, firm precedent agreements with four shippers for 100 percent of the project's available firm service capability of 860,000 Dth/d. Further, Ordering Paragraph (C) of this order requires Columbia Gas and Columbia Gulf to file a written statement affirming that it has executed contracts for service at the levels provided for in their respective precedent agreements prior to commencing construction. The shippers on both projects have determined, based on their assessment of the long-term needs of their particular customers and markets, that there is a market for the natural gas to be transported and that the Mountaineer XPress and Gulf XPress Projects are the preferred means for delivering or receiving that gas. Given the substantial financial commitment required under these contracts by the projects' shippers, we find that these contracts are the best evidence that the service to be provided by the project is needed in the markets to be served. We also find that end users will generally benefit from the projects because they will develop gas infrastructure that will serve to ensure future domestic energy supplies and enhance the pipeline grid by providing additional transportation capacity connecting sources of natural gas to markets in the Midwest, Northeast, Mid-Atlantic, South, and Gulf Coast.

35. With respect to the ability of alternatives to meet the projects' needs, our environmental review concluded that the availability of capacity on existing or other proposed natural gas systems or other energy sources, such as renewable energy sources do not presently serve as practical alternatives to the project.³³ The final EIS found that there is not sufficient available capacity on existing pipeline systems to transport all of the volumes contemplated to be transported by the Mountaineer XPress Project to the range of delivery points proposed by Columbia Gas, and that expansion of existing pipeline systems was not a feasible alternative.³⁴ Specifically, the final EIS found that none of the facilities owned and operated by Dominion Transmission Inc., Texas Eastern Transmission, LP (TETCO), and Tennessee Gas Pipeline Company (TGP) would be reasonable system alternatives to the Mountaineer XPress Project and that no other

Statement broadened the types of evidence certificate applicants may present to show the public benefits of a project, it did not compel an additional showing ... [and] [n]o market study or other additional evidence is necessary where ... market need is demonstrated by contracts for 100 percent of the project's capacity.'").

³³ Final EIS at 3-1 – 3-8.

³⁴ *Id.* at 3-3 – 3-7.

systems nearby have sufficient capacity to transport the contracted volumes.³⁵ Moreover, the final EIS found that modifying other systems so that they might be used would require construction of new energy infrastructure, which would result in additional environmental impacts.³⁶ The final EIS also evaluated system alternatives to meet the Gulf XPress Project's purpose and need using TETCO's and TGP's mainlines and modifications to Columbia Gulf's existing system, all of which were eliminated because they were unfeasible or would have greater environmental impact.³⁷

36. Regarding potential overbuilding of pipeline infrastructure in the Appalachian basin, Allegheny quotes a study by the Institute for Energy Economics and Financial Analysis (IEEFA), which argues, in part, that interstate pipeline infrastructure to ship natural gas from the Marcellus and Utica region³⁸ is overbuilt.³⁹ Without providing analysis, Allegheny quotes sections of the study that argue overbuilding is encouraged by a weak regulatory process, lack of coordinated planning for natural gas infrastructure, financial dynamics of the natural gas industry such as low natural gas prices, and upstream producers moving into the pipeline construction business because of its stability compared to the volatility associated with drilling.⁴⁰

37. We do not find that the IEEFA Study demonstrates that the proposed projects are not needed. The study speaks in generalities, focuses on the effects of the Mountain Valley Pipeline (CP16-10-000) and Atlantic Coast Project (CP15-554-000), and does not discuss the proposed Mountaineer XPress or Gulf XPress Projects.⁴¹ However, while it

³⁵ *Id.*

³⁶ *Id.* at 3-7.

³⁷ *Id.* at 3-7 – 3-8.

³⁸ The Marcellus shale formation extends deep underground from Ohio and West Virginia, northeast through Pennsylvania and southern New York. The Utica shale formation lies a few thousand feet below Marcellus shale formation in primarily the same, but slightly larger area as the Marcellus shale formation. *See Beardslee v. Inflection Energy, LLC*, 761 F.3d 221, 224 (2d Cir. 2014).

³⁹ Institute for Energy Economics and Financial Analysis, *Risks Associated With Natural Gas Expansion in Appalachia*, April 2016.

⁴⁰ Allegheny April 24, 2017 Comments at 55-56.

⁴¹ *See Transcontinental Gas Pipe Line Co., LLC*, 158 FERC ¶ 61,125 at P 28 (2017).

does discuss, in general terms, risk factors that might facilitate overbuilding of pipeline infrastructure, it also suggests that pipelines like the proposed projects may serve to aid in the delivery of lower-priced natural gas to higher-priced markets.

38. In addition, the IEEFA Study improperly relies on a U.S. Department of Energy (DOE) study concerning the implication of increased demand for electricity on natural gas infrastructure.⁴² The DOE study does not demonstrate that pipelines are currently overbuilt. Rather, it concludes that demand for natural gas from the electric power sector will only result in modest additions of new pipeline capacity between 2015 and 2030 (34 to 38 billion cubic feet (Bcf) per day) compared to historical capacity additions between 1998 and 2013 (127 Bcf per day).⁴³ The study explains that natural gas production and natural gas demand are geographically dispersed and natural gas companies are increasingly utilizing underutilized capacity on existing pipelines, re-routing natural gas flows, and expanding existing pipeline capacity.⁴⁴

39. Here, project shippers have executed long-term binding precedent agreements for firm service using 98 percent of the design capacity of the Mountaineer XPress Project and 100 percent of the design capacity of the proposed Gulf XPress Project. We find this sufficient to support a finding that there is a need for these two projects.

40. Allegations that the project is not needed because gas transported on the projects may be exported are not persuasive. There is no evidence in the record that indicates that the expansion capacity will be used to transport natural gas for export. Further, even if some of the gas is ultimately destined for export, that can only occur after a finding by the Secretary of Energy that such export is in the public interest. The Commission does not have jurisdiction over the exportation or importation of natural gas.⁴⁵

⁴² U.S. DEP'T OF ENERGY, NATURAL GAS INFRASTRUCTURE IMPLICATIONS OF INCREASED DEMAND FROM THE ELECTRIC POWER SECTOR, <http://energy.gov/epsa/downloads/report-natural-gas-infrastructure-implications-increased-demand-electric-power-sector> (issued Feb. 2015).

⁴³ *See id.* at 31.

⁴⁴ *See id.*

⁴⁵ Section 3(a) of the NGA provides, in part, that “no person shall export any natural gas from the United States to a foreign country or import any natural gas from a foreign country without first having secured an order of the Commission authorizing it to do so.” 15 U.S.C. § 717b(a) (2012). In 1977, the Department of Energy Organization Act transferred the regulatory functions of section 3 of the NGA to the Secretary of Energy. 42 U.S.C. § 7151(b) (2012). Subsequently, the Secretary of Energy delegated to

4. Conclusion

41. In view of the above considerations, we find that Columbia Gas and Columbia Gulf have demonstrated a need for the Mountaineer XPress and Gulf Xpress Projects, respectively, and that each project's benefits to the market outweigh any adverse economic effects on existing shippers, other pipelines and their captive customers, and landowners and surrounding communities. Consistent with the criteria of the Certificate Policy Statement and NGA section 7(c), upon balancing the evidence of public benefits against the potential adverse effect of the projects, we find that the public convenience and necessity requires approval of Columbia Gas' and Columbia Gulf's proposals, subject to the conditions discussed below, including appropriate environmental conditions and mitigation measures.

42. In addition, we find that the public convenience and necessity permits Columbia Gas to abandon the existing Line SM-80 and SM-80 Loop segments and Unit 9 at the Ceredo Compressor Station. Because Columbia Gas will be replacing the facilities it proposes to abandon, the abandonments will have no impact on the services currently provided.

B. Eminent Domain Authority

43. Several commenters assert that it is inappropriate for Columbia Gas and Columbia Gulf to obtain property for the projects through eminent domain since both companies are for-profit corporations.⁴⁶ Another commenter states that it is inappropriate to grant

the Commission authority to “[a]pprove or disapprove the construction and operation of particular facilities, the site at which such facilities shall be located, and with respect to natural gas that involves the construction of new domestic facilities, the place of entry for imports or exit for exports.” DOE Delegation Order No. 00-004.00A (effective May 16, 2006). The proposed facilities are not located at a potential site of exit for natural gas exports. Moreover, the Secretary of Energy has not delegated to the Commission any authority to approve or disapprove the import or export of the commodity itself, or to consider whether the exportation or importation of natural gas is consistent with the public interest. *See Corpus Christi Liquefaction, LLC*, 149 FERC ¶ 61,283, at P 20 (2014) (*Corpus Christi*). *See also National Steel Corp.*, 45 FERC ¶ 61,100, at 61,332-33 (1988) (observing that DOE, “pursuant to its exclusive jurisdiction, has approved the importation with respect to every aspect of it except the point of importation” and that the “Commission’s authority in this matter is limited to consideration of the place of importation, which necessarily includes the technical and environmental aspects of any related facilities”).

⁴⁶ Ohio Coalition Comments at 2.

eminent domain authority for the Mountaineer XPress Project to TransCanada, a foreign-owned company.⁴⁷

44. The Commission does not, itself, confer eminent domain. Under section 7 of the NGA, the Commission has jurisdiction to determine if the construction and operation of proposed interstate pipeline facilities are in the public convenience and necessity. Once the Commission makes that determination, it is section 7(h) of the NGA that authorizes a certificate holder to acquire the necessary land or property to construct the approved facilities by exercising the right of eminent domain if it cannot acquire the easement by an agreement with the landowner.⁴⁸ In constructing this provision, Congress made no distinction between for-profit and non-profit companies. As discussed above, need for the projects has been demonstrated by the existence of long-term precedent agreements for approximately 98 percent of capacity of the Mountaineer XPress Project, and 100 percent of the capacity on the Gulf XPress Project. The precedent agreements are also evidence of the public benefits of the project.⁴⁹

C. Rates

1. Columbia Gas (Mountaineer XPress Project)

45. Columbia Gas proposes to charge an incremental recourse monthly reservation charge of \$9.827 per Dth for firm transportation service on the Mountaineer XPress Project path. The charge was developed using a straight fixed-variable methodology and dividing the project's \$313,677,794 annual fixed costs by the annual incremental billing determinants of 31,920,000 Dth.⁵⁰ In developing the proposed incremental reservation

⁴⁷ See, e.g., April 24, 2017 Comment of Marijana Beram. We note, however, that although TransCanada is the parent company to Columbia Gas and Columbia Gulf, TransCanada is not an applicant in this proceeding.

⁴⁸ 15 U.S.C. § 717f(h) (2012).

⁴⁹ See *Florida Southeast Connection, LLC*, 156 FERC ¶ 61,160, at P 5 (2016); see also *Minisink Residents for Environmental Preservation and Safety v. FERC*, 762 F.3d at 111 n.10.

⁵⁰ Columbia Gas Application at Exhibit P, Page 1.

charge, Columbia Gas uses its existing transmission depreciation rate of 1.50 percent⁵¹ and pre-tax rate of return.⁵²

46. The cost of service for the Mountaineer XPress Project includes 50 percent of the estimated cost of replacing portions of Line SM-80 and Line SM-80 Loop and estimated costs associated with the 500 horsepower of additional capacity associated with the replacement of Unit 9 at the Ceredo Compressor Station.⁵³ Columbia Gas states that it will seek recovery of the remaining costs associated with these replacement facilities from existing customers through operation of the CCRM that is provided for in the Modernization II Settlement.

47. Columbia Gas' proposed incremental recourse reservation charge for the Mountaineer XPress Project of \$9.827 per Dth is higher than the current system reservation charge of \$4.771 per Dth for firm transportation service contained in Columbia Gas' tariff.⁵⁴ Because the proposed incremental recourse rate is higher than the system rate, we will approve Columbia Gas' proposed incremental reservation charge as the initial recourse charge for firm service using the incremental capacity created by the Mountaineer XPress Project. Columbia Gas's proposal to charge its maximum base system usage charge of \$0.0104 per Dth is also approved.⁵⁵

a. **Fuel, Other Surcharges, and Request for Rolled-in Rate Treatment**

48. Columbia Gas proposes to apply its generally applicable system surcharges to recover the costs of fueling and powering the Mountaineer XPress Project's compressor units and lost and unaccounted for gas, and requests a predetermination of rolled-in rate treatment for these costs. These surcharges consist of the Retainage Adjustment Mechanism (RAM), through which Columbia Gas recovers lost and unaccounted for quantities and company use gas, including the fuel for Columbia Gas' gas-fired

⁵¹ Columbia Gas' current depreciation rate was established in Docket No. RP12-1021-000. *Columbia Gas Transmission, LLC*, 142 FERC ¶ 61,062 (2013).

⁵² Columbia Gas' current pre-tax rate of return was established in Docket No. RP95-408-000. *Columbia Gas Transmission Corp.*, 79 FERC ¶ 61,044 (1997).

⁵³ *Supra* note 9.

⁵⁴ Columbia Gas Transmission, LLC, FERC NGA Gas Tariff, Baseline Tariffs, Currently Effective Rates, FTS Rates, 40.0.0.

⁵⁵ Columbia Gas Application at Page 19.

compressors, and the Electric Power Cost Adjustment (EPCA), through which Columbia Gas recovers the costs of powering its electric-powered compressor stations. Columbia Gas shows in Exhibit Z-3 that the increased billing determinants from the Mountaineer XPress Project will result in an overall decrease in the RAM and EPCA surcharges even though fuel use and electricity expenses will increase.⁵⁶ Accordingly, we will grant Columbia Gas' surcharge proposal.

49. Additionally, Columbia Gas proposes to assess the Mountaineer XPress Project shippers its generally applicable Transportation Cost Rate Adjustment (TCRA), through which Columbia gas recovers third-party transportation costs, and Operational Transaction Rate Adjustment (OTRA), through which Columbia Gas recovers certain operational natural gas purchases and sales. Columbia Gas shows in Exhibit Z-3 that the Mountaineer XPress Project will result in lower TCRA and OTRA surcharges as a result of the added billing determinants from the Mountaineer XPress Project.

50. The Commission approves Columbia Gas proposal to assess its generally applicable system-wide surcharges for TCRA and OTRA and grants the pre-determination request to roll-in the project's operational fuel costs into its RAM and EPCA surcharges, absent a significant change in material circumstances. Columbia Gas has sufficiently demonstrated that such treatment will result in rate benefits to its existing customers.

2. Columbia Gulf (Gulf XPress Project)

51. Columbia Gulf proposes to charge an incremental recourse monthly reservation charge of \$10.256 per Dth for firm transportation service on the Gulf XPress Project path. This charge was developed using a straight fixed-variable methodology and dividing the project's \$105,884,544 annual fixed costs by the annual incremental billing determinants of 10,320,000 Dth.⁵⁷ In developing the proposed incremental reservation charge,

⁵⁶ Columbia Gas Application, Exhibit Z-3.

⁵⁷ Columbia Gulf Application at Exhibit P, Page 1.

Columbia Gulf uses its existing transmission depreciation rate of 1.25 percent, a negative salvage rate of 0.29 percent,⁵⁸ and pre-tax rate of return.⁵⁹

52. Columbia Gulf's proposed incremental recourse reservation charge for the Gulf XPress Project of \$10.256 per Dth is higher than the current system reservation charge of \$4.170 per Dth for firm transportation service contained in Columbia Gulf's tariff.⁶⁰ Because the proposed incremental recourse reservation charge is higher than the system charge, we will approve Columbia Gulf's proposed incremental reservation charge as the initial recourse charge for firm service using the incremental capacity created by the Gulf XPress Project.

53. Columbia Gulf's proposal to charge an incremental usage charge of \$0.0550 per Dth is also approved.⁶¹

a. **Fuel**

54. Columbia Gulf proposes to apply its generally applicable system fuel retention rate to shippers using the Gulf XPress Project capacity and requests a predetermination of rolled-in treatment of the project's fuel costs through its Transportation Retainage Adjustment mechanism. Based on a study designed to determine the impact of the additional fuel required to operate the Gulf XPress Project facilities, Columbia Gulf determined that system fuel use is expected to decrease on a percentage basis as a result of the Gulf XPress Project, thereby resulting in lower fuel costs to existing customers.⁶² The Commission approves Columbia Gulf's proposal to charge its generally applicable system-wide fuel retention percentage and grants the pre-determination request to roll the project's fuel cost into the system-wide fuel recovery mechanism, absent a significant

⁵⁸ Columbia Gulf's current depreciation rate and negative salvage rate were established in Docket No. RP11-1435-000. *Columbia Gulf Transmission Co.*, 137 FERC ¶ 61,177 (2011).

⁵⁹ Columbia Gulf's current pre-tax rate of return was established in Docket No. RP97-52-000. *Columbia Gulf Transmission Co.*, 83 FERC ¶ 61,094 (1998).

⁶⁰ Columbia Gulf Transmission, LLC, FERC NGA Gas Tariff, Columbia Gulf Tariffs, Currently Effective Rates, FTS-1 Rates, 13.0.0.

⁶¹ Columbia Gulf Application at Exhibit N, Page 1.

⁶² Columbia Gulf Application at Exhibit Z-1.

change in material circumstances. Columbia Gulf has sufficiently demonstrated that such treatment will result in rate benefits to its existing customers.

b. Reporting Incremental Project Costs

55. The Commission will require Columbia Gas and Columbia Gulf to keep separate books and accounting of costs and revenues attributable to the proposed incremental services and capacity created by the Mountaineer Xpress Project and the Gulf Xpress Project in the same manner as required by section 154.309 of the Commission's regulations.⁶³ The books should be maintained with applicable cross-reference and the information must be in sufficient detail so that the data can be identified in Statements G, I, and J in any future NGA section 4 or 5 rate case, and the information must be provided consistent with Order No. 710.⁶⁴

c. Negotiated Rate Agreements

56. Columbia Gas and Columbia Gulf both propose to provide service to their shippers under negotiated rate agreements. Columbia Gas and Columbia Gulf must file either the negotiated rate agreements or tariff records setting forth the essential elements of the agreements in accordance with the Alternative Rate Policy Statement⁶⁵ and the Commission's negotiated rate policies.⁶⁶ Columbia Gas and Columbia Gulf must file the

⁶³ 18 C.F.R. § 154.309 (2017).

⁶⁴ *Revisions to Forms, Statements, and Reporting Requirements for Natural Gas Pipelines*, Order No. 710, FERC Stats. & Regs. ¶ 31,267 (2008).

⁶⁵ *Alternatives to Traditional Cost-of-Service Ratemaking for Natural Gas Pipelines; Regulation of Negotiated Transportation Services of Natural Gas Pipelines*, 74 FERC ¶ 61,076, *order granting clarification*, 74 FERC ¶ 61,194, *order on reh'g and clarification*, 75 FERC ¶ 61,024, *reh'g denied*, 75 FERC ¶ 61,066, *reh'g dismissed*, 75 FERC ¶ 61,291 (1996), *petition denied sub nom. Burlington Res. Oil & Gas Co. v. FERC*, 172 F.3d 918 (D.C. Cir. 1998) (Alternative Rate Policy Statement).

⁶⁶ *Natural Gas Pipelines Negotiated Rate Policies and Practices; Modification of Negotiated Rate Policy*, 104 FERC ¶ 61,134 (2003), *order on reh'g and clarification*, 114 FERC ¶ 61,042, *reh'g dismissed and denied clarification*, 114 FERC ¶ 61,304 (2006).

negotiated rate agreements or tariff records at least 30 days, but no more than 60 days, before the proposed effective date for such rates.⁶⁷

D. Environmental Analysis

1. Pre-Filing Review

57. On September 16, 2015, Commission staff granted Columbia Gas' request to use the pre-filing environmental review process in Docket Number PF15-31-000.⁶⁸ As part of the pre-filing review, on November 18, 2015, the Commission issued a *Notice of Intent to Prepare an Environmental Impact Statement for the Planned Mountaineer XPress Project, Request for Comments on Environmental Issues, and Notice of Public Scoping Meetings* (Mountaineer XPress NOI). The Mountaineer XPress NOI was published in the *Federal Register* on December 1, 2015,⁶⁹ and mailed to more than 1,300 interested entities, including federal, state, and local government representatives and agencies; elected officials; environmental and public interest groups; Native American tribes; potentially affected property owners; other interested parties; and local libraries and newspapers. The Mountaineer XPress NOI briefly described the project and the Commission's environmental review process, provided a preliminary list of issues identified by Commission staff, invited written comments on the environmental issues that should be addressed in the draft EIS, listed the date and location of four public scoping meetings⁷⁰ to be held in the project area, and established December 17, 2015, as the deadline for comments. Approximately 166 people attended the four scoping meetings held for the Mountaineer XPress Project in West Virginia. A total of 24 verbal

⁶⁷ Pipelines are required to file any service agreement containing non-conforming provisions and to disclose and identify any transportation term or agreement in a precedent agreement that survives the execution of the service agreement.

⁶⁸ Columbia Gulf did not participate in the pre-filing review process for the Gulf XPress Project.

⁶⁹ 80 Fed. Reg. 75,083 (2015).

⁷⁰ Commission staff held the public scoping meetings between December 7 and 10, 2015, in New Martinsville, West Union, Ripley, and South Charleston, West Virginia. On December 10, 2015, Commission staff also held a meeting in Charleston, West Virginia for federal, state, and local agencies.

comments and 45 written comments were received at these meetings.⁷¹ Transcripts of the scoping meetings and written comment letters were placed into the public docket.

2. Application Review

58. The pre-filing review period ended when Columbia Gas filed its project application on April 29, 2016. Columbia Gulf filed its project application on the same date. Commission staff issued a *Notice of Application* for each project on May 13, 2016, and the notices appeared in the *Federal Register* on May 20, 2016.⁷²

59. On June 2, 2016, Commission staff issued a *Notice of Intent to Prepare an Environmental Impact Statement for the Proposed Gulf XPress Project, Request for Comments on Environmental Issues, and Notice of Public Scoping Meeting* (Gulf XPress NOI). The Gulf XPress NOI was published in the *Federal Register* on June 9, 2016,⁷³ and mailed to more than 960 interested entities, including federal, state, and local government representatives and agencies; elected officials; environmental and public interest groups; Native American tribes; affected property owners; other interested parties; and local libraries and newspapers. The Gulf XPress NOI established a July 5, 2016, closing date for a public comment period for the submission of comments, concerns, and issues related to the environmental aspects of the Gulf XPress Project. Similar to the Mountaineer XPress NOI, the Gulf XPress NOI briefly described the project and the Commission's environmental review process, provided a preliminary list of issues identified by Commission staff, invited written comments on the environmental issues that should be addressed in the draft EIS, listed the date and location of one public scoping meeting to be held in Antioch, Tennessee, and established July 5, 2016, as the deadline for comments. Approximately 145 people attended the scoping meeting. A total of 28 verbal comments and 149 written comments were received.⁷⁴ Transcripts of the scoping meetings and written comment letters were placed into the public docket for the project.

60. On October 11, 2016, Columbia Gas incorporated several route modifications for its proposed MXP-100 and MXP-200 pipeline routes. Thus, on October 21, 2016, the

⁷¹ Table 1.3-1 starting on page 1-11 of the final EIS provided a list of environmental issues raised during scoping.

⁷² 81 Fed. Reg. 31,929 (2016); 81 Fed. Reg. 31,935 (2016).

⁷³ 81 Fed. Reg. 37,192 (2016).

⁷⁴ Table 1.3-2 starting on page 1-13 of the final EIS provided a list of environmental issues raised during scoping.

Commission mailed a copy of the Mountaineer XPress NOI along with an informational cover letter to 31 newly affected landowners that described 20 route alternatives and 28 minor route adjustments for the Mountaineer XPress Project in West Virginia. The Commission opened a targeted 30-day scoping period for these route modifications.

61. To satisfy the requirements of the National Environmental Policy Act of 1969 (NEPA),⁷⁵ Commission staff evaluated the potential environmental impacts associated with the construction and operation of Mountaineer XPress Project and Gulf XPress Project in one EIS because the projects are proposed to be constructed within the same general timeframe and the applicants are both subsidiaries of TransCanada. Thus, the EIS' consideration of company-proposed construction techniques and mitigation measures was facilitated by a combined analysis. The U.S. Environmental Protection Agency (EPA), U.S. Army Corps of Engineers; U.S. Fish and Wildlife Service (USFWS); West Virginia Department of Environmental Protection (WVDEP); and the West Virginia Department of Natural Resources (WVDNR) participated in the NEPA review as cooperating agencies.

62. Notice of the draft EIS was published in the *Federal Register* on March 6, 2017, establishing a 45-day comment period that ended on April 24, 2017.⁷⁶ The draft EIS was mailed to 2,480 stakeholders, including additional interested entities that were added since issuance of the two NOIs and the supplemental scoping for the route modifications. We received more than 230 comments from landowners, public officials, non-government organizations, and government agencies in response to the draft EIS. In addition, Commission staff held five public comment sessions for the draft EIS in West Virginia and Tennessee between March 20 and 28, 2017. In total, 22 people provided verbal comments at those sessions. Transcripts of the public comment sessions and all written comments on the draft EIS are part of the public record for the projects.

63. Commission staff issued the final EIS on July 28, 2017, which was published in the *Federal Register* on August 3, 2017.⁷⁷ The final EIS addressed all substantive comments received on the draft EIS.⁷⁸ The final EIS was mailed to the same parties as

⁷⁵ 42 U.S.C. §§ 4321 *et seq.* (2012). *See also* 18 C.F.R. pt. 380 (2017) (Commission's regulations implementing NEPA).

⁷⁶ 82 Fed. Reg. 12,582 (2017).

⁷⁷ 82 Fed. Reg. 36,130 (2017).

⁷⁸ Appendix Q of the final EIS includes copies of letters in response to the draft EIS received through the close of the comment period, which are presented adjacent to Commission staff responses.

the draft EIS, and to newly identified landowners and any additional parties that commented on the draft EIS.⁷⁹ The final EIS addresses geology; soils; water resources; wetlands; vegetation; wildlife and fisheries; threatened, endangered, and special status species; land use, recreation, special interest areas, and visual resources; socioeconomics; cultural resources; air quality and noise; reliability and safety; cumulative impacts; and alternatives.

64. The final EIS concludes that construction and operation of the Mountaineer XPress and Gulf XPress Projects will result in some adverse environmental impacts, but that most impacts on the environment will be temporary or short-term (e.g., impacts on soils, non-forested vegetation, aquatic resources, wetlands, wildlife, and construction-related air and noise impacts). Some impacts would be long-term, such as those related to operational air emissions and noise.⁸⁰ The final EIS determined that impacts on all of the above-mentioned resources⁸¹ will be reduced to less-than-significant levels with the implementation of mitigation measures proposed by the applicants and with the mitigation measures recommended in the final EIS, as modified herein, and included as environmental conditions in the Appendix C to this order.⁸² The final EIS did conclude that the Mountaineer XPress Project's impacts on upland interior forest habitat and large Core Forest Areas (including habitat for the cerulean warbler, a migratory bird considered sensitive in the project area) will be significant. As recommended in the final EIS, we are including environmental condition 17 in the appendix to this order to promote effective restoration of forested areas (also see discussion in PP 88-89, below).

65. Environmental Recommendation 30(a) of the final EIS would have required Columbia Gas to file a response to the West Virginia SHPO's comments concerning the Phase I Historic Resource Survey, and file the SHPO's comments on Columbia Gas' response. On September 8, 2017, Columbia Gas filed a Revised Phase I Historic Resource Survey and a concurrence letter from the West Virginia Division of Culture and History, which satisfied the requirements of this condition. Therefore, recommendation 30 (a) is no longer necessary and is not included as a condition to this order.

⁷⁹ The distribution list is provided in Appendix A of the final EIS.

⁸⁰ Final EIS at 5-22.

⁸¹ E.g. soils, non-forested vegetation, aquatic resources, wetlands, wildlife, and air quality and noise.

⁸² Final EIS at 5-1; *see also id.* at ES-3 – ES-16.

66. EPA Regions 3 and 4 filed substantive comments on the final EIS. These comments and the major environmental issues raised during this proceeding are addressed below.

3. Request to Supplement or Revise the Draft EIS

67. Allegheny argues that the draft EIS was insufficient and the Commission should revise it or issue a supplemental draft EIS. It asserts that the draft EIS lacks a statement of need as required by the Council of Environmental Quality's (CEQ) regulations implementing NEPA and that the Commission framed its statement of purpose too narrowly.⁸³ Allegheny further states that the Commission inappropriately postpones submittal of certain information to the end of the draft EIS comment period or before commencement of construction. Allegheny argues that it should have an opportunity to comment on this new information.

68. A purpose of a draft EIS is to elicit suggestions for change.⁸⁴ The CEQ regulation that Allegheny relies upon calls for a supplemental draft EIS if the agency "makes substantial changes in the proposed action that are relevant to environmental concerns" or "there are significant new circumstances or information relevant to environmental concerns."⁸⁵ The Supreme Court, in *Marsh v. Oregon Natural Resources Council*, stated that under the "rule of reason," "an agency need not supplement an [EIS] every time new information comes to light after the EIS is finalized."⁸⁶ Further, NEPA only requires agencies to employ proper procedures to ensure that environmental consequences are fully evaluated, not that a complete plan be presented at the outset of environmental review.⁸⁷ In *National Committee for New River v. FERC*,⁸⁸ the court held that "if every

⁸³ Allegheny April 24, 2017 Comments at 4 (citing 40 C.F.R. § 1502.13 (2017)).

⁸⁴ See *City of Grapevine, Tex. v. U.S. DOT*, 17 F.3d 1502, 1507 (D.C. Cir. 1994) ("[t]he very purpose of a [draft EIS] is to elicit suggestions for change.").

⁸⁵ 40 C.F.R. § 1502.9(c)(1) (2017).

⁸⁶ *Marsh v. Oregon Natural Resources Council*, 490 U.S. 360, 373 (1989).

⁸⁷ See *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 352 (1989).

⁸⁸ *National Committee for the New River, Inc. v. FERC*, 373 F.3d 1323 (D.C. Cir. 2004) (*New River*).

aspect of the project were to be finalized before any part of the project could move forward, it would be difficult, if not impossible, to construct the project.”⁸⁹

69. As shown in the final EIS, the additional information submitted by the applicants between the issuance of the draft EIS and of the final EIS did not cause the Commission to make “substantial changes in the proposed action,” nor did it present “significant new circumstances or information relevant to environmental concerns.” The final EIS analyzed the relevant environmental information and recommended environmental conditions. We adopt most of the recommended environmental conditions in this order. Applicants must satisfy the environmental conditions contained in Appendix C of this order before they may proceed with their projects.

70. In addition, we note that all applicant-filed information, including that submitted after the issuance of a draft or final EIS, is placed into the public docket for the project. Stakeholders may submit comments on any filed information, even if a formal comment period has not been established, and such comments will be considered as practicable as part of our ongoing project review.

71. Commenters’ argument regarding project need is misplaced. An EIS identifies a project’s purpose and need to define the parameters for the alternatives analysis,⁹⁰ not to determine whether the project is in the public interest. It is the Commission, in its order on the certificate application that evaluates project need under section 7(c) of the NGA.⁹¹

4. Major Environmental Issues and Comments on the Final EIS

a. Geological Resources

72. Several commenters raised issues regarding potential impacts from steep slopes (Mountaineer XPress) and karst topography (Gulf XPress). For the Mountaineer XPress Project, construction is proposed on steep slopes (58.2 miles of terrain with slopes that are 30 percent or greater) that are highly susceptible to landslides. Columbia Gas will implement its Environmental Construction Standards on steep slopes and other landslide-prone areas to minimize construction impacts. Columbia Gas prepared a Phase I Geohazard Assessment to identify areas along the Mountaineer XPress Project where a

⁸⁹ *New River*, 373 F.3d at 1329 (citing *East Tennessee Natural Gas Co.*, 102 FERC ¶ 61,225, at 61,659 (2003)).

⁹⁰ 40 C.F.R. § 1502.13 (2017); *see also National Fuel Gas Supply*, 158 FERC ¶ 61,145, at P 95 (2017) (citing *City of Grapevine, Tex. v. U.S. DOT.*, 17 F.3d at 1506).

⁹¹ *See supra* discussion of Certificate Policy Statement project need.

Phase II analysis will be focused. To further reduce impacts on steep slopes, environmental condition 14 in Appendix C to this order requires Columbia Gas to prepare both a Phase II Landslide Hazard Assessment and a Landslide Mitigation Plan in consultation with WVDEP and WVDNR.

73. Karst features, such as sinkholes and caves, form as a result of the long-term action of groundwater on subsurface soluble carbonate rocks (e.g., limestone and dolostone). These features could present a hazard to the pipeline due to cave or sinkhole collapse. Commenters expressed concerns that karst terrain could be encountered at the Gulf XPress Project Cane Ridge and/or Clifton Junction Compressor Station sites in Tennessee. At these locations, Columbia Gulf will construct foundations that are supported by competent bedrock to mitigate the risk of foundation disturbance due to seismic activity or sinkhole development. If sinkholes or other karst drainage features are encountered at either the Cane Ridge or Clifton Junction Compressor Station sites, Columbia Gulf would seek approval from the Tennessee Department of Environment and Conservation Division of Water Resources through the Underground Injection Control Program before modifying any karst or related geologic features.

74. In comments on the final EIS, EPA raised several issues related to geological resources. First, EPA noted Commission staff's recommendation that Columbia Gas prepare both a Phase II Landslide Hazard Assessment and a Landslide Mitigation Plan, and suggested that the plans be filed in the FERC eLibrary. EPA also suggested that we expand environmental inspector responsibilities to include training to identify acid-producing rocks and acid rock drainage when encountering and constructing in areas with known occurrences of acid producing rocks, soils, and/or potential acid rock drainage. Finally, EPA suggested that the public and stakeholders be made aware of any changes in the status of the McElroy Mine and Mountaineer XPress Project alignment, so that if future mine development occurs in areas crossed by the project route, additional resource impacts resulting from pipeline relocation could be identified.

75. As discussed above, condition 14 in Appendix C to this order requires Columbia Gas to prepare a Phase II Landslide Hazard Assessment and a Landslide Mitigation Plan in consultation with WVDEP and WVDNR, and file the results with the Secretary for review and written approval by the Director of the Office of Energy Projects (OEP). These materials will be publicly available with other project-related filings in our eLibrary.⁹²

76. With respect to EPA's comment regarding whether it may prove beneficial to

⁹² Access to materials filed as privileged or Critical Energy Infrastructure Information is governed by 18 C.F.R. §§ 388.112 and 388.113 of the Commission Rules of Practice and Procedures, respectively.

require that project environmental inspectors have specific acid-producing rock and acid rock drainage expertise, we note that coal and shale can contain pyrite, which can produce acid as the rock weathers. This acid can affect the pH of water features if introduced in sufficient volume. While the Mountaineer XPress Project does cross areas in which coal and shale are present, EPA provides no evidence that these formations contain pyrite in concentrations that would produce acid. In general, the upper 25- to 35-feet of bedrock typically does not contain pyrite because it is not stable under atmospheric conditions and will weather away. Where excavations are shallower than 30 feet, the risk of acid drainage is generally minimal.⁹³ Thus, we do not find it likely that acid-producing rock exposed by a pipeline trench could produce enough acid to have a substantial effect on the pH of surrounding water features. We also note that acid-producing rock has not been viewed as a significant concern for pipeline integrity. Current pipeline design and coating protocols account for corrosion potential, and pipelines are monitored periodically to identify and potential corrosion issues.⁹⁴ Therefore, we find no need to require specific expertise as suggested by EPA.

77. The final EIS provides specific information on active mining in the vicinity of the Mountaineer XPress Project and details the coordination process between Columbia Gas and mine operators to maintain the integrity of the pipeline.⁹⁵ Examples of mitigation to address surface subsidence associated with mining operations include stripping overlying soils to reduce downward pressure on the pipeline, reestablishing the support and stability of the active line as necessary, and backfilling and conducting appropriate restoration activities. Potential effects on the pipeline and all remediation activities would be coordinated with FERC staff.⁹⁶ Relocation of the pipeline as a result of mining operations is not anticipated. However, as required by environmental condition 1 in Appendix C of this order, approval for any pipeline relocation into areas that have not been previously identified in filings with the Secretary must be explicitly requested in writing by Columbia Gas, and would require appropriate environmental review and approval by the Commission. Any request by Columbia Gas will be available with other

⁹³ Pa. Dep't of Env't Prot., *How to Avoid and Handle Acid-Producing Rock Formations Encountered During Well Site Development*, <http://www.elibrary.dep.state.pa.us/dsweb/GetRendition/Document-114982/html>. Acid-producing rock is generally more of a concern for projects on the scale of a coal mine, where large amounts of rock is being exposed and removed.

⁹⁴ U.S. DOT, *Fact Sheet: Pipe Coatings* <https://primis.phmsa.dot.gov/comm/FactSheets/FSPipeCoatings.htm>.

⁹⁵ Final EIS at 4-46.

⁹⁶ Final EIS at 4-12; 4-46.

project-related filings in our eLibrary. Therefore, we find that additional measures are not required.

b. Water Resources

i. Groundwater

78. The final EIS identified over 40 private wells within 150 feet of the proposed Mountaineer XPress Project construction workspace. Columbia Gas will offer pre- and post-construction monitoring for well yield and water quality for these wells. If testing results indicate any significant changes in water quality between initial testing and post-construction as a result of Mountaineer XPress Project construction activities, Columbia Gas will compensate the landowner for repairs, installation of a new well, or other options as agreed upon with the landowner. Columbia Gas will also implement a landowner complaint resolution process to document and track landowner problems and their resolution. The final EIS recommended additional investigation, information, and protective measures regarding water wells and potable springs. We agree, and thus include environmental condition 15 in Appendix C to this order. Further, environmental condition 26 requires Columbia Gas to implement site-specific protocols and protective measures for four wells within the buffer zones of nearby Wellhead Protection Areas.

ii. Surface Waters

79. The Mountaineer XPress Project will cross 149 perennial waterbodies, 7 of which are defined by the Commission as major crossings (more than 100 feet wide). The Mountaineer XPress Project will cross 4 waterbodies in Marshall and Wetzel Counties that WVDNR has identified as having significant importance as baseline monitoring sites; 2 rivers (the Little Kanawha River and Mud River) listed on the Nationwide Rivers Inventory maintained by the National Park Service as having historic value; 58 sensitive waterbodies; and 78 individual stream segments that are listed by the EPA as impaired.

80. The final EIS reviewed the various crossing methods for these waterbodies (i.e., wet open-cut, dry-ditch [flume or dam-and-pump], and horizontal directional drill [HDD]) and concluded that the proposed crossings were acceptable. Further, impacts on surface water resources will be mitigated by Columbia Gas' and Columbia Gulf's compliance with the conditions of the Clean Water Act sections 404 and 401 permits, which are administered by the U.S. Army Corps of Engineers and the WVDEP, Kentucky Department of Environmental Protection, Tennessee Department of Environment and Conservation, and Mississippi Department of Environmental Quality.

81. The final EIS identified that the Mountaineer XPress Project will cross Zones of Critical Concern and Zones of Peripheral Concern that are categorized as surface water protection areas. These Zones warrant a more detailed inventory and management strategy due to their proximity to a source water and susceptibility to potential

contaminants. Accordingly, environmental condition 16 in Appendix C to this order requires Columbia Gas to consult with the appropriate government entities and/or water utilities to identify any specific protective measures for these crossings.

82. EPA filed several comments regarding wetlands and waterbodies. EPA generally recommended continued avoidance and minimization of impacts on wetlands and streams. EPA also recommended siting additional temporary workspaces at least 50 feet from wetlands and having environmental inspectors onsite during HDD operations. Regarding water withdrawals, EPA recommended that we consider employing a presumptive standard protecting 90 percent of daily flow. EPA also recommended that the withdrawal rate not exceed 10 percent of the stream's instantaneous flow and be adjusted if low-flow conditions occur. Additionally, EPA suggested clarification of how streams' daily flow will be measured, whether directly or indirectly. EPA also suggested monitoring stream flow before a discharge and comparing it to a protective threshold, and limiting and reporting withdrawal location, volume, and rate.

83. EPA suggested that we consider requiring or incorporating elements of a water management plan into the implementation plan for water withdrawal to protect against the spread of invasive species and the transfer of aquatic plants, algae, and aquatic life between watersheds. Finally, EPA recommended consultation with public water utilities whose source water protection areas are crossed by the pipeline project area. This consultation would focus on minimizing potential impacts within Zones of Critical Concern and Zones of Peripheral Concern to ensure protective measures are adopted.

84. To minimize impacts on wetlands and streams, Columbia Gas will implement its project-specific Environmental Construction Standards during construction including erosion controls and revegetation of disturbed areas.⁹⁷ These standards contain some of the measures recommended by EPA, such as workspace setbacks, the use of environmental inspectors, and mitigation measures to minimize impacts on wetlands and waterbodies. Further, Columbia Gas continues to consult with USFWS and WVDNR to avoid and minimize impacts on sensitive waterbodies. We have also included several measures to reduce impacts on surface water resources. We have determined that Columbia Gas' Environmental Construction Standards provide environmental protections that are consistent with our *Wetland and Waterbody Construction and Mitigation Procedures*, which require all extra work areas to be located at least 50 feet away from water's edge, unless specific variances are approved by Commission staff.⁹⁸ We believe these measures are sufficient to protect wetlands, waterbodies, and related aquatic resources and effectively address EPA's overall concerns.

⁹⁷ Final EIS at 4-77.

⁹⁸ *Wetland and Waterbody Construction and Mitigation Procedures* at V.B.2.a.

85. Environmental condition 6(c) in Appendix C to this order requires Columbia Gas to identify the number of environmental inspectors assigned per construction spread, and indicate how the company will ensure that sufficient personnel are available to implement environmental mitigation and other protective measures.⁹⁹ Given that the applicant is required to comply with all environmental regulations during project installation (including use of HDD), it is not necessary for the Commission to dictate more specifically how the applicant would employ its personnel.

86. Columbia Gas and Columbia Gulf will obtain water withdrawal permits from the appropriate regulatory agency for each state, as required. All source water withdrawals will be completed in accordance with the applicable permit conditions, and each company will follow the requirements in its respective Environmental Construction Standards.¹⁰⁰ The Environmental Construction Standards require hydrostatic test water discharges to be directed into dewatering structures located in upland areas, which would eliminate the potential spread of invasive species and the transfer of aquatic plants, algae, and aquatic life between watersheds, since they are removed from the aquatic environment they require. We find these measures adequate to address EPA's concerns regarding the potential spread of aquatic invasive species.

87. Additionally, environmental condition 16 in Appendix C to this order requires Columbia Gas to consult with the appropriate government entities and/or water utilities to identify any specific protective measures for crossing Zones of Critical Concern and Zones of Peripheral Concern that are categorized as surface water protection areas.

c. Vegetation and Forested Land

88. Commission staff received comments during public scoping expressing concern regarding the impacts of the Mountaineer XPress Project on interior forest. Construction of the Mountaineer XPress Project will impact about 2,400 acres of forested land, and operation will affect about 814 forested acres. The final EIS concludes that the temporary clearing and permanent conversion of upland forested habitat will result in a significant impact, due mainly to the impacts on interior forest and Core Forest Areas that represent preferred habitat for a variety of wildlife species, including migratory birds such as the cerulean warbler, a Priority 1 species of special concern in West Virginia.¹⁰¹

⁹⁹ Our staff will review the adequacy of the Columbia Gas and Columbia Gulf plans to employ environmental inspectors, including the number of inspectors to be employed, as a part of the Commission's overall construction compliance oversight responsibilities.

¹⁰⁰ Final EIS at 4-70.

¹⁰¹ Final EIS at 4-112.

In coordination with WVDNR and using that agency's approved methodology, Commission staff assessed interior forest impacts by identifying Core Forest Areas based on the acreage of contiguous habitat. Accordingly, the final EIS reports that Mountaineer XPress Project construction will result in about 1,311 acres of Core Forest Area impact, and operation will result in about 490 acres of permanent Core Forest Areas impact.

89. To minimize impacts on forest and reduce required tree clearing, Columbia Gas co-located the pipeline with other existing rights-of-way in approximately 22 percent of the proposed alignment. Impacts on forested and non-forested vegetation types will be further mitigated through adherence to the measures described in Columbia Gas' Environmental Construction Standards. Further, we are adopting the recommendation in the final EIS regarding restoration of forested areas. Environmental condition 17 in Appendix C to this order requires Columbia Gas to file any specific construction, restoration, replacement, and/or operation mitigation measures identified through its discussions with WVDNR that Columbia Gas will implement to promote compatibility with the restoration and management of upland forested areas.¹⁰²

d. Wildlife

90. Four state-managed Wildlife Management Areas will be traversed by the MXP-100 pipeline corridor: the western unit of the Cecil H. Underwood Wildlife Management Area from milepost (MP) 9.2 to MP 9.4, the Lewis Wetzel Wildlife Management Area from about MP 28.3 to MP 33.4, the Frozen Camp Wildlife Management Area from about MP 113.2 to MP 114.4, and the O'Brien Lake Wildlife Management Area between about MP 120.4 to MP 121.5. These areas are managed by WVDNR for wildlife habitat and to provide opportunities for hunting and fishing. The Lewis Wetzel Wildlife Management Area consists of 14,023 acres of heavily forested area, which is managed for deer, grouse, raccoon, squirrel, and turkey hunting, and is listed as an Important Bird Area for cerulean warblers. Direct impacts on individual warblers or their nests are not expected from the Mountaineer XPress Project; however, as discussed above, the project's impact on priority warbler habitat is considered significant.

91. Columbia Gas proposes various measures to reduce impacts on migratory birds, including the preparation of a Migratory Bird Plan in cooperation with USFWS and WVDNR.¹⁰³ Further, environmental condition 19 in Appendix C to this order requires Columbia Gas to file an update of its Migratory Bird Treaty Act consultations with

¹⁰² In its September 5, 2017 comments, EPA stated that it supports the implementation of a mitigation and reforestation plan to reduce the impacts to upland forested lands, including Core Forest Areas.

¹⁰³ Final EIS at 4-126.

USFWS and WVDNR and to identify any special measures that Columbia Gas will implement to reduce impacts on cerulean warbler habitat.

e. **Threatened, Endangered, and Other Special Status Species**

92. The final EIS identified 13 federally listed or proposed species potentially occurring in the Mountaineer XPress Project area.¹⁰⁴ The final EIS determined that suitable habitat for the federally listed Indiana bat and northern long-eared bat is present within all counties affected by the Mountaineer XPress Project, and that several federal and state protected mussel species are present in several waterbodies that will be crossed by the project. As discussed in the final EIS, in Mountaineer XPress Project areas covered by the USFWS-approved *Multi-Species Habitat Conservation Plan* (Conservation Plan), Columbia Gas will implement the applicable Avoidance and Minimization Measures for these species. In lands not covered by the Conservation Plan, Columbia Gas will submit all outstanding survey information to the Commission, as well as the USFWS, which will work with Columbia Gas to address any species-specific issues and develop Avoidance and Minimization Measures for federally protected species. Environmental conditions 20 and 21 in Appendix C to this order stipulate that construction cannot begin until after Commission staff completes the process of complying with the Endangered Species Act via consultation with USFWS.

93. Columbia Gas is also working with state agencies to coordinate the remaining surveys and develop suitable protocols to protect sensitive state resources, such as potential impacts on West Virginia protected mussel species. West Virginia has no state endangered species legislation; therefore, the only species listed as state-threatened or endangered are those listed as such by the USFWS. As mentioned above, we are requiring Columbia Gas to finalize its mussel surveys and develop mitigation measures that will allow us to complete our Endangered Species Act consultation with the USFWS. Although the WVDNR is not directly involved in such consultation, the EIS discussed the WVDNR's long-range plans and comprehensive goals to protect and conserve the State's biological diversity, including sensitive mussel species (whether federally listed or not). Because consultations with WVDNR are ongoing, environmental condition 22 requires Columbia Gas to file for review the results of its consultation with WVDNR for sensitive mussel species, including any updated stream crossing plans and/or additional mitigation measures for all locations where sensitive mussels may occur.

94. Regarding the Gulf XPress Project, the final EIS identified 31 federally listed or proposed species potentially occurring in the Gulf XPress Project area; however most of

¹⁰⁴ Final EIS at ES-10.

these species would not be adversely affected by construction or operation of the Gulf XPress Project compressor stations.¹⁰⁵ Staff received comments regarding the potential for the federally listed Nashville crayfish to occur in the vicinity of the Cane Ridge Compressor Station. The USFWS Ecological Services Tennessee Field Office stated that the proposed project activities are consistent with the USFWS-approved *Multi-Species Habitat Conservation Plan* and the resulting programmatic Endangered Species Act consultation. USFWS further stated that it does not anticipate the Nashville crayfish to be present at the Cane Ridge Compressor Station site. However, because the crayfish is known to be present in nearby Mill Creek, USFWS recommended that strict sediment and contaminant runoff prevention measures be in place during construction and operation of the facility. Columbia Gas has agreed to implement the appropriate protective measures. The final EIS determined, and we agree, that the Gulf XPress Project will have either *no effect* or will *not likely adversely affect* any federally listed species (including the Nashville crayfish) that could occur in the vicinity of the Gulf XPress Project.

f. Residential and Recreational Areas

95. Columbia Gas identified 66 residences within 50 feet of its proposed construction work area, and Columbia Gulf identified 3 residences and four other structures within 100 feet of Gulf XPress Project construction areas. Site-specific residential mitigation plans are included as Appendix B-1 of the final EIS for residences within 25 feet of Mountaineer XPress Project work areas. These plans identify the mitigation measures to be implemented by Columbia Gas to further reduce impacts on residents during the construction period. We find these generally sufficient; however, our staff noted a fenced corral and a shed within the construction work area on two tracts (near MPs 51.0 and 124.6). The plans generally indicate that these and other physical features that need to be protected will be enclosed in safety fence to avoid disturbance during construction. However, it appears that these structures may need to be removed or relocated to accommodate construction. Given that Columbia Gas has not demonstrated landowner agreement to have these structures removed, environmental condition 23 in Appendix C to this order requires Columbia Gas to file updated plans for the two tracts that include site-specific impact avoidance or minimization measures.

96. Commission staff also received comments concerning the loss of privacy from clearing mature trees. To limit impacts on residential areas, Columbia Gas and Columbia Gulf have each committed to implementing mitigation measures such as giving landowners 2-weeks' notice before beginning construction on their property and not removing mature trees or landscaping from the edge of the construction right-of-way unless necessary for safe operation of construction equipment, or as specified in

¹⁰⁵ Id.

landowner agreements.¹⁰⁶ We find this sufficient.

97. Two Gulf XPress Project facilities (the Morehead and Holcomb Compressor Stations) will be constructed within 0.25 mile of two publicly owned lands – the Daniel Boone National Forest and the Malmaison Wildlife Management Area, respectively. The Morehead Compressor Station will not affect the recreational use or experience of the National Forest, as the compressor station site is separated from the Forest by Interstate 64. The Holcomb Compressor Station could result in temporary and permanent visual impacts on the Wildlife Management Area. However, the final EIS concluded, and we agree, that the forested areas between the compressor station site and the Wildlife Management Area will provide adequate visual screening.

98. The Mountaineer XPress Project will cross the Little Kanawha Parkway, which is designated as a West Virginia Scenic Byway. As discussed in the final EIS, a pipeline corridor will be cleared through the adjacent forest, resulting in a change in the visual appearance of these lands as viewed from the parkway.¹⁰⁷ Columbia Gas has committed to work with West Virginia Department of Transportation officials to avoid or minimize potential impacts on the parkway and will establish safety protocols at the crossing. Columbia Gas also will coordinate with transportation officials to publish construction alerts on information websites and in local newspapers, providing schedules of the anticipated time and duration of disruptions associated with construction. We find this sufficient.

g. Socioeconomics

i. Property Values, Mortgages, and Insurance

99. Commission staff received multiple comments expressing concerns with reductions in property values that could result from the construction and operation of natural gas facilities near homes, residential areas, or areas identified for future residential or commercial developments. The final EIS cites several studies analyzing presence of natural gas facilities in proximity to residences and finds no conclusive evidence indicating that natural gas pipeline easements would have a negative impact on property values in general.¹⁰⁸ Similarly, the final EIS examines concerns that insurance premiums would increase and/or insurance companies would not insure properties due to pipeline proximity. Based on these investigations, the final EIS found no conclusive

¹⁰⁶ Final EIS at 4-193.

¹⁰⁷ Final EIS at 4-203.

¹⁰⁸ Final EIS at 4-239.

evidence indicating that insurance premiums will be affected by the presence of a natural gas pipeline easement. We agree.

ii. Traffic

100. Commission staff received comments during the draft EIS comment period expressing concern regarding the impacts of the construction and operation of the Cane Ridge Compressor Station on traffic. Unlike the other Gulf XPress Project compressor stations that are in rural settings, the Cane Ridge Compressor Station is in a relatively developed area (suburban Nashville). Given the possibility of traffic delays, Columbia Gulf has committed to work with local transportation officials to mitigate transportation and traffic impacts on Barnes Road during the 10-month station construction period. The final EIS finds that no significant change in traffic patterns during the construction and eventual operation of the compressor station is anticipated. The final EIS concludes that impacts on the local transportation network from operation of the Cane Ridge Compressor Station will be temporary, as the facility will employ only two permanent workers, resulting in about four vehicle trips per day on average during operation. We agree.

h. Cultural Resources

101. Columbia Gas completed cultural resources surveys for all accessible project areas. To date, of the 56 archaeological sites identified, only 1 is eligible for the National Register of Historic Places (National Register). Columbia Gas will avoid this site. Of 188 architectural resources identified, one is listed on the National Register, seven are recommended eligible or contributing, and the remainder are ineligible for the National Register. Portions of the Mountaineer XPress Project still require survey; therefore, compliance with section 106 of the National Historic Preservation Act is not complete. Once cultural resources surveys and evaluations are complete, a treatment plan will be prepared if any historic properties will be adversely affected by the Mountaineer XPress Project. To ensure the Commission's responsibilities under the National Historic Preservation Act and its implementing regulations are met, environmental condition 25 in Appendix C to this order requires that Columbia Gas not begin any construction-related project activities until the Commission completes its section 106 obligations.

102. Columbia Gulf has completed cultural resources surveys for the project and did not document any historic (National Register-eligible or listed) properties. We agree with the findings of the Tennessee, Mississippi, and Kentucky State Historic Preservation Offices (SHPOs) that no historic properties will be affected by the Gulf XPress Project.

i. Air Quality and Noise

i. Air Quality

103. Commenters expressed concern about exposure to chemicals from the construction and operation of gas compressor stations and the resulting impacts on human health, particularly in an urban/suburban setting where the Gulf XPress Project Cane Ridge Compressor Station is proposed. Fugitive gas emissions can occur because of leaks from gas pipeline equipment and can be emitted from blowdowns at compressor stations. Fugitive emissions from equipment leaks are estimated to be less than 1 ton per year (tpy) for each Gulf XPress Project compressor station, and blowdown emissions are estimated to be in the range of 5 to 7 tpy. These fugitive gas emissions will be pipeline quality gas that primarily comprises methane, ethane, and propane (hydrocarbons) and not highly toxic compounds. The principle source of pollutants from the compressor stations, both hazardous air pollutants (HAPs) and criteria pollutants, will occur as a result of natural gas combustion. As shown in the final EIS, combustion emissions were estimated for each Gulf XPress Project compressor station, and all are below the major source HAP thresholds (10 tpy for each individual HAP and 25 tpy for combined HAPs)¹⁰⁹. The remaining criteria pollutants were modeled, and estimated ambient concentrations were found to be below National Ambient Air Quality Standards (NAAQS), which are set by EPA to be protective of the public health.

104. As discussed in the final EIS¹¹⁰ operation of the Mountaineer XPress Project and Gulf XPress Project aboveground facilities will result in long-term air emissions from stationary equipment (e.g., turbines, emergency generators, and heaters at compressor stations and meter & regulator stations), including emissions of nitrogen oxide, carbon monoxide, particulate matter, sulfur dioxide, volatile organic compounds, greenhouse gases (GHGs, including fugitive methane), and HAPs. Modeling results demonstrate that the Mountaineer XPress Project and Gulf XPress Project compressor stations will not exceed the NAAQS, and the project areas will continue to remain protective of human health and public welfare for all listed pollutants. The final EIS concludes, and we agree, the proposed and modified compressor stations and meter stations will not have a significant impact on local or regional air quality.

105. Air quality impacts associated with construction of the projects will include emissions from construction equipment and fugitive dust. The final EIS concludes that such air quality impacts will generally be temporary, localized, and not have a significant

¹⁰⁹ Final EIS section 4.11.1.3.4.

¹¹⁰ Final EIS at 5-22.

impact on air quality or contribute to a violation of applicable air quality standards.¹¹¹ We agree.

ii. Noise

106. Commission staff received comments during public scoping and the draft EIS comment period expressing concern regarding noise impacts from the construction and operation of the Cane Ridge Compressor Station. As shown in the final EIS, the modeled noise levels at the Gulf XPress Project compressor stations during operation will be below the Commission's noise limit of 55 A-weighted decibels (dBA).¹¹² Operation of the Paint Lick, Goodluck, Leach C, and Cane Ridge stations would result in a noticeable increase in noise levels, but total noise levels would remain below our 55 dBA day-night sound level (L_{dn}) criterion. The increase in noise level at the Cane Ridge Compressor Station has been a major issue of public concern. The predicted noise levels attributable to operation of the Cane Ridge Station at the closest noise sensitive area (NSA) is 45.3 dBA equivalent sound level (L_{eq}), which is below the Metropolitan Government of Nashville and Davidson County daytime and nighttime limits. To confirm that actual noise levels attributable to the Gulf XPress Project compressor and meter stations remain below our established noise limit, we are including environmental condition 36 in Appendix C to this order, which requires Columbia Gulf to file noise surveys no later than 60 days after placing each of the Gulf XPress Project compressor stations into service.

107. As stated in the final EIS, Columbia Gas modeled noise levels at NSAs near each compressor station proposed under the Mountaineer XPress Project during operation. Worst case modeled noise levels at each NSA due to typical compressor station operation will be below the Commission's noise limit of 55 dBA, with the exception of the Ceredo Compressor Station. Current noise levels at five NSAs near the Ceredo Compressor Station exceed 55 dBA.¹¹³ However, the modifications associated with the Ceredo Compressor Station are predicted to *decrease* noise levels at these nearby NSAs by 3.6 to 9.1 decibels, which is ensured by environmental condition 33. Environmental condition 32 requires Columbia Gas to make all reasonable efforts to maintain its predicted noise levels from the rest of the Mountaineer XPress Project compressor stations, ensure that these levels are not exceeded at nearby NSAs, and file noise surveys showing this no later than 60 days after placing these stations in service. Environmental condition 35 requires Columbia Gas to file noise surveys no later than 60 days after placing the Ripley and

¹¹¹ Final EIS section 5.1.11.1.

¹¹² Final EIS at 4-309.

¹¹³ Final EIS at 4-303.

Saunders Creek Regulator Stations into service.

108. Columbia Gas proposes to use HDD or Direct Pipe pipeline installation at two locations along the Mountaineer XPress Project pipeline route (HDD at the Kanawha River and Direct Pipe at Highway 50). For entry and exit points at which the predicted construction related noise levels at a NSA are greater than 55 dBA L_{dn} , Columbia Gas will install residential grade exhaust mufflers on engines and install acoustic barriers between the drilling site and the impacted NSA to mitigate noise impacts.¹¹⁴ Even with mitigation measures at the Kanawha River, the expected impacts at NSA #1 will still exceed 55 dBA L_{dn} and will represent more than a doubling of perceived ambient noise levels. Accordingly, environmental condition 28 requires Columbia Gas to file a Kanawha River drilling noise mitigation plan to reduce the projected noise impacts attributable to the proposed drilling operations at nearby NSAs. This condition also requires Columbia Gas to implement the approved plan, monitor noise levels, document the noise levels in its weekly status report required under environmental condition 8, and make all reasonable efforts to restrict the noise attributable to the drilling operations to no more than an L_{dn} of 55 dBA at the NSAs.

109. The final EIS concludes, and we agree, that construction and operation of the projects will not result in significant noise impacts on residents and the surrounding communities.¹¹⁵

110. In its comments on the final EIS, EPA recommended that Columbia Gas and Columbia Gulf notify residents when HDD construction and planned blowdown events at aboveground facilities will be performed. We find this recommendation to be reasonable. Accordingly environmental condition 28 requires Columbia Gas to notify residents in the vicinity of project HDD and Direct Pipe drilling operations of its anticipated construction schedule and hours of operation. In addition, environmental conditions 33 and 35 require that Columbia Gas make all reasonable efforts to notify nearby NSAs in advance of planned blowdown events at the Mountaineer XPress Project Compressor Stations. Environmental condition 37 requires Columbia Gulf to make all reasonable efforts to notify nearby NSAs in advance of planned blowdown events at the Gulf XPress Project Compressor Stations.

j. Safety

111. Numerous commenters questioned the safety of the projects. As discussed in the final EIS, applicable data demonstrate that Commission-jurisdictional pipelines are a

¹¹⁴ Final EIS at 4-301.

¹¹⁵ Final EIS at 4-389.

safe, reliable means of transporting natural gas.¹¹⁶ Further, the project facilities must be designed, constructed, operated, and maintained to meet the U.S. Department of Transportation's (DOT) Minimum Federal Safety Standards¹¹⁷ and other applicable federal and state regulations. These regulations include specifications for material selection and qualification; minimum design requirements; and protection of the pipeline from internal, external, and atmospheric corrosion.

k. **Cumulative Impacts**

i. **Other Projects**

112. The final EIS evaluated potential cumulative impacts of the Mountaineer XPress Project and the Gulf XPress Project along with other past, present, and reasonably foreseeable activities, in accordance with the Council on Environmental Quality regulations and guidance.¹¹⁸ The final EIS concludes that when combined with other past, present, and reasonably foreseeable future oil and gas wells and appurtenant facilities, the Mountaineer XPress Project will contribute to some long-term significant cumulative impacts on upland forested vegetation and associated wildlife habitats, particularly interior forest and Core Forest Areas and the associated habitat for the cerulean warbler.¹¹⁹ Regarding the Gulf XPress Project, Commission staff received comments expressing concerns about the cumulative impacts on air quality from the operation of the Cane Ridge Compressor Station and Compressor Station 563, located 31 miles away, which was proposed as part of the Broad Run Expansion Project.¹²⁰ As discussed in the final EIS, modeling results shows concentrations below the NAAQS for both Compressor Station 563 and the Cane Ridge Compressor Station, and concludes that these proposed projects are unlikely to result in significant emission impacts on local air quality.¹²¹

113. Due to the implementation of specialized construction techniques, the relatively

¹¹⁶ Final EIS at 4-326.

¹¹⁷ See 49 C.F.R. pt. 192 (2017).

¹¹⁸ See 40 C.F.R. § 1508.7 (2017).

¹¹⁹ Final EIS at 4-352 – 353.

¹²⁰ The Broad Run Expansion Project was approved in Docket No. CP15-77-000. *Tennessee Gas Pipeline Company, L.L.C.*, 156 FERC ¶ 61,157 (2016).

¹²¹ Final EIS at 4-371 and 4-372.

short construction timeframe in any single location, and carefully developed resource protection and mitigation plans designed to avoid or minimize environmental impacts from the Mountaineer XPress Project and Gulf XPress Project, the final EIS concludes, and we agree, that minimal cumulative effects are anticipated (with the exception of forest impacts) when the effects of each project are added to the past, present, and reasonably foreseeable future projects within the Mountaineer XPress Project's and Gulf XPress Project's geographic scopes.¹²²

I. Climate Change

114. The most common GHGs emitted during fossil fuel combustion and natural gas transportation are carbon dioxide, methane, and nitrous oxide. The final EIS estimates the direct and indirect GHG emissions associated with construction and operation of the Mountaineer XPress Project and Gulf XPress Project.¹²³

115. We recognize the availability of a reasonable EPA-developed methodology to estimate the downstream GHG emissions from a project, assuming all of the gas to be transported is eventually combusted. As such, we have estimated the GHG emissions from the end-use combustion of the natural gas to be transported by the projects.¹²⁴ Total annual downstream emissions of GHG were estimated for the Mountaineer XPress Project and Gulf XPress Project based on the total capacity of 2,700,000 Dth/d of natural gas for the projects, and assuming all the gas being transported is used for additional combustion. End-use combustion will result in about 52.3 million metric tons per year of CO₂. This represents an upper bound of GHG emissions because it assumes the total maximum throughput is transported 365 days per year (and that none is used as an industrial feedstock). As the first assumption is unlikely, it is unlikely that this total amount of GHG emissions would occur. Additionally, using coal or oil for any of the purposes for which the gas is intended would result in greater GHG emissions. The 52.3 million metric tons of GHG emissions would result in about a 3 percent increase in GHG emissions from fossil fuel combustion in states served by the systems at the delivery points,¹²⁵ and a 1 percent increase in national emissions.¹²⁶

¹²² Final EIS at 4-375 – 376.

¹²³ Final EIS section 4.13.2.11.

¹²⁴ Final EIS at 4-374 – 375.

¹²⁵ Based upon Virginia, Ohio, Kentucky, Maryland, Pennsylvania, New York, New Jersey, West Virginia, North Carolina, Tennessee, Mississippi, and Louisiana fossil fuel GHG emissions of 1,644 million metric tons for 2015, per year according to U.S. Energy Information Administration, *State Carbon Dioxide Emissions Data* (October,

m. Alternatives

116. The final EIS analyzes alternatives, including the no action alternative, system alternatives, Mountaineer XPress Project pipeline major route alternatives, minor pipeline route variations, and alternative locations for the proposed Gulf XPress Project Cane Ridge Compressor Station. The final EIS concluded that if the no action alternative is selected, the environmental impacts outlined in the EIS will not occur. However, if the projects are not authorized, their stated objectives will not be realized, and natural gas will not be transported from production areas in the Marcellus and Utica regions in the Northeast, additional capacity of 1,800,000 Dth/d will not be delivered to Columbia Gas' TCO Pool (the main pooling point on Columbia Gas' system), and additional 900,000 Dth/d will not be delivered to Columbia Gulf's system. In response to the no action alternative, shippers may seek other infrastructure to transport natural gas to customers, and construction of those other projects may result in environmental impacts that will be similar to or greater than the proposed projects.

117. The final EIS evaluated potential impacts associated with using other pipelines to transport an equivalent volume of gas to meet the Mountaineer XPress Project purpose and need and to provide firm transportation service to Columbia Gas' TCO Pool and more southerly markets accessible from Columbia Gulf's pipeline. As discussed in the final EIS, there are no existing pipeline systems in the vicinity of the projects that can meet the applicants' stated objectives without major expansions, therefore we do not consider them as reasonable alternatives to the proposed Mountaineer XPress and Gulf SM-80 Loop ths.¹²⁷

118. The final EIS also analyzed major pipeline route alternatives to the Mountaineer XPress Project, two that involved looping/upgrades to existing Columbia Gas pipeline systems and one that included modifications to an approved Columbia Gas project currently under construction (Leach XPress; Docket No. CP15-514). These alternatives would require additional length of pipeline and the corresponding additional impacts on the environment.¹²⁸ Further, the final EIS finds that constructability issues associated

2017). <https://www.eia.gov/environment/emissions/state/>.

¹²⁶ Based on 5,411 million metric tons of CO₂ in 2015 as presented by EPA at https://www.epa.gov/sites/production/files/2017-02/documents/2017_complete_report.pdf.

¹²⁷ Final EIS at 5-28.

¹²⁸ The looping alternatives would require an additional 111 and 25 miles of pipeline, respectively, when compared to the proposed pipeline length of 170 miles, and the alternative modifications to the Leach XPress Project would require an additional

with both alternatives and the potential impacts on an increased number of landowners make both alternatives less viable and preferable than the proposed pipeline route. The final EIS determines that the alternatives reviewed were not environmentally preferable to the proposed action. We agree.

119. Commission staff received comment letters from four affected landowners on the Mountaineer XPress Project alignment who requested alternative routes across their properties. The final EIS concludes that these route variations are reasonable and that they address landowner concerns without adding unacceptable environmental impact.

Accordingly, environmental condition 13 in Appendix C to this order directs Columbia Gas to adopt these re-routes and file updated information accordingly.

120. The final EIS considered two alternatives involving Columbia Gulf using its existing system to meet the purpose and need of the Gulf XPress Project: a loop-intensive alternative that would include modifications to an existing facility and seven new pipeline looping sections; and a separate alternative that involved a combination of looping and horsepower increases at five existing compressor stations. The final EIS concludes that looping and addition of compression at Columbia Gulf's existing compressor stations were not preferable or would not provide a significant environmental advantage over the Gulf XPress Project.¹²⁹ We agree and do not require either alternative.

121. Commission staff received numerous letters, comments, and mapping from residents living around the proposed location of the Cane Ridge Compressor Station, suggesting that the site be moved. Based on comments received during the draft EIS comment period regarding alternative sites for the Cane Ridge Compressor Station, the final EIS evaluated an additional 13 alternative sites, some of which were identified by the commenters and some of which were developed by Commission staff. However, the final EIS did not identify any alternative sites that would confer an environmental advantage over the proposed site while still meeting the project need and conforming to required engineering parameters. We confirm the conclusion in the final EIS that the proposed site for the Cane Ridge Compressor Station is acceptable.

122. After the final EIS was issued, Columbia Gas filed, on September 1, 2017, supplemental information requesting that the Commission order approve several route adjustments and waterbody crossing methods. Columbia Gas states that these variations would avoid or reduce impacts on certain streams and aquatic habitat for sensitive mussel

66 miles of pipeline. Final EIS at 3-8 to 3-18.

¹²⁹ Final EIS section 3.6.

species. The specific crossing locations are Meathouse Fork (MP 51.6), South Fork Hughes River (near MP 72.4), South Fork Hughes River (MP 77.0), Little Kanawha River (MP 94.8), and Spring Creek (near MP 97.0). Despite the potential to reduce aquatic impacts at these locations, each proposed crossing variation would affect newly impacted landowners who have not had an opportunity to comment on the proposal. Therefore, we will not approve the requested variations at this time. Instead, we will authorize the route and associated workspaces as described and evaluated in the final EIS, which concluded that Columbia Gas' proposed route at these locations is acceptable, pending the Commission's completion of section 7 consultation with the USFWS for those crossings that contain federally listed mussel species (i.e., South Fork Hughes River and Little Kanawha River).

123. Columbia Gas states it is continuing to conduct easement negotiations with the landowners affected by its requested route revisions. Environmental condition 5 in Appendix C to this order provides a mechanism for a company to request route adjustments or other project variations after receiving a Certificate. Columbia Gas will thus have the opportunity to re-file its requests, as discussed above, if the provisions of condition 5 (including obtaining landowner agreement) are met.

5. Environmental Analysis Conclusion

124. We have reviewed the information and analysis contained in the final EIS regarding the potential environmental effects of Mountaineer XPress and Gulf XPress Projects. We are adopting the environmental recommendations in the final EIS, as discussed and modified above, and are including them as environmental conditions in Appendix C to this order.

125. Based on our consideration of this information and the discussion above, we agree with the conclusions presented in the final EIS and find that the projects, if constructed and operated as described in the applications, supplemental filings, and the final EIS, as modified above, is an environmentally acceptable action. Further, for the reasons discussed throughout the order, as stated above, we find that the projects are in the public convenience and necessity.

126. Any state or local permits issued with respect to the jurisdictional facilities authorized herein must be consistent with the conditions of this certificate. The Commission encourages cooperation between interstate pipelines and local authorities. However, this does not mean that state and local agencies, through application of state or local laws, may prohibit or unreasonably delay the construction or operation of facilities

approved by this Commission.¹³⁰

127. The Commission on its own motion received and made part of the record in this proceeding all evidence, including the application, and exhibits thereto, and all comments and upon consideration of the record,

¹³⁰ See 15 U.S.C. § 717r(d) (state or federal agency's failure to act on a permit considered to be inconsistent with Federal law); see also *Schneidewind v. ANR Pipeline Co.*, 485 U.S. 293, 310 (1988) (state regulation that interferes with FERC's regulatory authority over the transportation of natural gas is preempted) and *Dominion Transmission, Inc. v. Summers*, 723 F.3d 238, 245 (D.C. Cir. 2013) (noting that state and local regulation is preempted by the NGA to the extent it conflicts with federal regulation, or would delay the construction and operation of facilities approved by the Commission).

The Commission orders:

(A) A certificate of public convenience and necessity is issued to Columbia Gas authorizing it to construct and operate the Mountaineer XPress Project, as described and conditioned herein and in the application.

(B) A certificate of public convenience and necessity is issued to Columbia Gulf authorizing it to construct and operate the Gulf XPress Project, as described and conditioned herein and in the application.

(C) The certificate authority issued in Ordering Paragraphs (A) and (B) is conditioned on:

(1) Columbia Gas' and Columbia Gulf's projects being constructed and made available for service within 3 years of the date of this order, pursuant to section 157.20(b) of the Commission's regulations;

(2) Columbia Gas' and Columbia Gulf's compliance with all applicable Commission regulations, particularly the general terms and conditions set forth in Parts 154, 157, and 284, and paragraphs (a), (c), (e), and (f) of section 157.20 of the Commission's regulations;

(3) Columbia Gas' and Columbia Gulf's compliance with the environmental conditions listed in Appendix C to this order; and

(4) Columbia Gas and Columbia Gulf filing written statements affirming that they have executed firm contracts for volumes and service terms equivalent to those in their precedent agreements, prior to the commencement of construction.

(D) Columbia Gas' proposed initial rates for the Mountaineer XPress Project are approved as more fully discussed above.

(E) Columbia Gas shall file actual tariff records setting forth its incremental rates at least 30 days, but no more than 60 days, prior to the date the project facilities go into service. That filing should be made as an eTariff compliance filing using type of filing code 580, and will be assigned an RP docket. It will be processed separately from the instant certificate proceeding in Docket No. CP16-357-000.

(F) Columbia Gas' predetermination request to roll-in the project's fuel costs into its RAM and EPCA fuel recovery mechanisms, absent a significant change in material circumstances, is approved as more fully discussed above.

(G) Columbia Gas is granted permission and approval under section 7(b) of the NGA to abandon the facilities described in this order.

(H) Columbia Gas must notify the Commission within 10 days of the abandonment of the facilities discussed in Ordering Paragraph G.

(I) Columbia Gulf's proposed initial rates for the Gulf XPress Project are approved as more fully discussed above.

(J) Columbia Gulf shall file actual tariff records setting forth its incremental rates at least 30 days, but no more than 60 days, prior to the date the project facilities go into service. That filing should be made as an eTariff compliance filing using type of filing code 580, and will be assigned an RP docket. It will be processed separately from the instant certificate proceeding in Docket No. CP16-361-000.

(K) Columbia Gulf's predetermination request to roll-in the project's fuel cost into the system-wide fuel recovery mechanism, absent a significant change in material circumstances, is approved as more fully discussed above.

(L) The late, unopposed motions to intervene filed before issuance of this order in each respective docket are granted pursuant to Rule 214(d) of the Commission's Rules of Practice and Procedure.

(M) Columbia Gas and Columbia Gulf shall notify the Commission's environmental staff by telephone or e-mail of any environmental noncompliance identified by other federal, state, or local agencies on the same day that such agency notifies Columbia Gas or Columbia Gulf. The applicants shall file written confirmation of such notification with the Secretary of the Commission within 24 hours.

By the Commission. Chairman McIntyre is not participating.

(S E A L)

Nathaniel J. Davis, Sr.,
Deputy Secretary.

Appendix A

Timely Unopposed Intervenors in CP16-357-000

Allegheny Defense Project
Anadarko Energy Services Company
Antero Resources Corporation
Atmos Energy Marketing, LLC
Calpine Energy Services, L.P.
Chevron U.S.A. Inc.
The Cities of Charlottesville and Richmond, VA
ConocoPhillips Company
Direct Energy Business Marketing, LLC
Duke Energy Ohio, Inc.
Exelon Corporation
Interstate Gas Supply, Inc.
National Grid Gas Delivery Companies
New Jersey Natural Gas Company
NiSource Distribution Companies
NJR Energy Services Company
Noble Energy, Inc.
Ohio Valley Environmental Coalition
Orange and Rockland Utilities, Inc.
Piedmont Natural Gas Company, Inc.
Public Service Company of North Carolina, Inc.
PSEG Energy Resources
Range Resources-Appalachia, LLC
Sierra Club
Statoil Natural Gas LLC
UGI Distribution Companies
Vectren Energy Deliver of Ohio, Inc.
Washington Gas Light Company

Timely Unopposed Intervenors in CP16-361-000

Allegheny Defense Project
Anadarko Energy Services Company
Antero Resources Corporation
Calpine Energy Services, L.P.
Chevron U.S.A. Inc.
Christopher Tuley, Keep Southeast Nashville Healthy
City of Richmond, VA
Direct Energy Business Marketing, LLC

Duke Energy Ohio, Inc.
Friends of Mill Creek Greenway, Mill Creek Park Section
Heather Hixson-McGovern, Keep Southeast Nashville Healthy
James N. Tokarski
Lillian L. Hawkins
National Grid Gas Delivery Companies
NiSource Distribution Companies
NJR Energy Services Company
Ohio Valley Environmental Coalition
Orange and Rockland Utilities, Inc.
Piedmont Natural Gas Company, Inc.
Range Resources-Appalachia, LLC
Sierra Club
Tennessee Valley Authority
Washington Gas Light Company

Appendix B

Untimely Intervenors in CP16-361-000

Friends of Mill Creek Greenway

Mill Creek Park Section

Statoil Natural Gas LLC

Christopher Tuley and Heather Hixson-McGovern of Keep Southeast Nashville Healthy

Appendix C

Environmental Conditions

As recommended in the final environmental impact statement (EIS) and otherwise amended herein, this authorization includes the following conditions. The section number in parentheses at the end of a condition corresponds to the section number in which the measure and related resource impact analysis appears in the final EIS.

These measures will further mitigate the environmental impact associated with construction and operation of the projects. We have included several conditions that require the applicants to file additional information **prior to construction**. Other conditions require actions **during operations**. Some are standard conditions typically attached to Commission Orders. There are conditions that apply to both applicants, and other conditions are specific to either Columbia Gas Transmission, LLC (Columbia Gas) or Columbia Gulf Transmission, LLC (Columbia Gulf).

Conditions 1 through 12 are standard conditions that apply to both Columbia Gas and Columbia Gulf.

1. Columbia Gas and Columbia Gulf shall each follow the construction procedures and mitigation measures described in their respective applications and supplements (including responses to staff data requests) and as identified in the EIS, unless modified by the order. Columbia Gas and Columbia Gulf must:
 - a. request any modification to these procedures, measures, or conditions in a filing with the Secretary of the Commission (Secretary);
 - b. justify each modification relative to site-specific conditions;
 - c. explain how that modification provides an equal or greater level of environmental protection than the original measure; and
 - d. receive approval in writing from the Director of the Office of Energy Projects (OEP) **before using that modification**.
2. The Director of OEP, or the Director's designee, has delegated authority to address any requests for approvals or authorizations to carry out the conditions of the order, and take whatever steps are necessary to ensure the protection of all environmental resources during construction and operation of the Mountaineer XPress (MXP) and Gulf XPress (GXP) Projects. This authority shall allow:
 - a. the modification of conditions of the order;

- b. stop-work authority; and
 - c. the imposition of any additional measures deemed necessary to ensure continued compliance with the intent of the conditions of the order as well as the avoidance or mitigation of unforeseen adverse environmental impact resulting from MXP and GXP construction and operation.
3. **Prior to any construction**, Columbia Gas and Columbia Gulf shall file an affirmative statement with the Secretary, certified by their senior company officials, that all Columbia Gas and Columbia Gulf personnel, environmental inspectors (EI), and contractor personnel will be informed of the EI's authority and have been or will be trained on the implementation of the environmental mitigation measures appropriate to their jobs **before** becoming involved with construction and restoration activities.
 4. The authorized facility locations shall be shown in the EIS, as supplemented by filed alignment sheets, and shall include the staff's recommended route variations identified in section 3.4 of the EIS. **As soon as they are available, and before the start of construction**, Columbia Gas and Columbia Gulf shall file with the Secretary any revised detailed survey alignment maps/sheets at a scale not smaller than 1:6,000 with station positions for all facilities approved by the order. All requests for modifications of environmental conditions of the order or site-specific clearances must be written and must reference locations designated on these alignment maps/sheets.

Columbia Gas and Columbia Gulf exercise of eminent domain authority granted under Natural Gas Act (NGA) section 7(h) in any condemnation proceedings related to the Order must be consistent with these authorized facilities and locations. Columbia Gas and Columbia Gulf right of eminent domain granted under NGA section 7(h) does not authorize them to increase the size of their natural gas facilities to accommodate future needs or to acquire a right-of-way for a pipeline to transport a commodity other than natural gas.

5. Columbia Gas and Columbia Gulf shall file with the Secretary detailed alignment maps/sheets and aerial photographs at a scale not smaller than 1:6,000 identifying all route realignments or facility relocations, staging areas, pipe storage yards, new access roads, and other areas that will not be used or disturbed and have not been previously identified in filings with the Secretary. Approval for each of these areas must be explicitly requested in writing. For each area, the request must include a description of the existing land use/cover type, documentation of landowner approval, whether any cultural resources or federally listed threatened or endangered species will be affected, and whether any other environmentally sensitive areas are within or abutting the area. All areas shall be clearly identified

on the maps/sheets/aerial photographs. Each area must be approved in writing by the Director of OEP **before construction in or near that area.**

This requirement does not apply to extra workspace allowed by FERC's *Upland Erosion Control, Revegetation, and Maintenance Plan* and/or minor field alignments per landowner needs and requirements which do not affect other landowners or sensitive environmental areas such as wetlands.

Examples of alterations requiring approval include all route realignments and facility location changes resulting from:

- a. implementation of cultural resources mitigation measures;
- b. implementation of endangered, threatened, or special concern species mitigation measures;
- c. recommendations by state regulatory authorities; and
- d. agreements with individual landowners that affect other landowners or could affect sensitive environmental areas.

6. **Within 60 days of the acceptance of the authorization and before construction begins**, Columbia Gas and Columbia Gulf ("Companies") shall file their respective Implementation Plans with the Secretary for review and written approval by the Director of OEP. Columbia Gas and Columbia Gulf must file revisions to their plans as schedules change. The plans shall identify:

- a. how the Companies will implement the construction procedures and mitigation measures described in its application and supplements (including responses to staff data requests), identified in the EIS, and required by the order;
- b. how the Companies will incorporate these requirements into the contract bid documents, construction contracts (especially penalty clauses and specifications), and construction drawings so that the mitigation required at each site is clear to onsite construction and inspection personnel;
- c. the number of Environmental Inspectors (EI) assigned per spread, and how the company will ensure that sufficient personnel are available to implement the environmental mitigation;
- d. company personnel, including EIs and contractors, who will receive copies of the appropriate material;
- e. the location and dates of the environmental compliance training and instructions the Companies will give to all personnel involved with

- construction and restoration (initial and refresher training as the MXP and GXP progress and personnel change), with the opportunity for OEP staff to participate in the training session(s);
- f. the company personnel (if known) and specific portion of the Companies' organization having responsibility for compliance;
 - g. the procedures (including use of contract penalties) the Companies will follow if noncompliance occurs; and
 - h. for each discrete facility, a Gantt or Program Evaluation Review Technique (PERT) chart (or similar project scheduling diagram), and dates for:
 - i. the completion of all required surveys and reports;
 - ii. the environmental compliance training of onsite personnel;
 - iii. the start of construction; and
 - iv. the start and completion of restoration.
7. Columbia Gas shall employ a team of EIs (i.e., two or more or as may be established by the Director of OEP) per construction spread for the MXP. Columbia Gulf shall employ at least two EIs for the GXP. The EIs shall be:
- a. responsible for monitoring and ensuring compliance with all mitigation measures required by the order and other grants, permits, certificates, or other authorizing documents;
 - b. responsible for evaluating the construction contractor's implementation of the environmental mitigation measures required in the contract (see condition 6 above) and any other authorizing document;
 - c. empowered to order correction of acts that violate the environmental conditions of the order, and any other authorizing document;
 - d. a full-time position, separate from all other activity inspectors;
 - e. responsible for documenting compliance with the environmental conditions of the order, as well as any environmental conditions/permit requirements imposed by other federal, state, or local agencies; and
 - f. responsible for maintaining status reports.
8. **Beginning with the filing of its Implementation Plan**, Columbia Gas shall file updated status reports with the Secretary on a **weekly basis** for the MXP until all

construction and restoration activities are complete. Beginning with the filing of its Implementation Plan, Columbia Gulf shall file updated status reports with the Secretary on a **monthly basis** for the GXP until all construction and restoration activities are complete. On request, these status reports will also be provided to other federal and state agencies with permitting responsibilities. Status reports shall include:

- a. an update on the Companies' efforts to obtain the necessary federal authorizations;
 - b. the construction status of each spread, work planned for the following reporting period, and any schedule changes for stream crossings or work in other environmentally sensitive areas;
 - c. a listing of all problems encountered and each instance of noncompliance observed by the EIs during the reporting period (both for the conditions imposed by the Commission and any environmental conditions/permit requirements imposed by other federal, state, or local agencies);
 - d. a description of the corrective actions implemented in response to all instances of noncompliance, and their cost;
 - e. the effectiveness of all corrective actions implemented;
 - f. a description of any landowner/resident complaints that may relate to compliance with the requirements of the order, and the measures taken to satisfy their concerns; and
 - g. copies of any correspondence received by the Companies from other federal, state, or local permitting agencies concerning instances of noncompliance, and the Companies' response.
9. Columbia Gas and Columbia Gulf must receive written authorization from the Director of OEP **before commencing construction of any project facilities**. To obtain such authorization, Columbia Gas and Columbia Gulf must file with the Secretary documentation that it has received all applicable authorizations required under federal law (or evidence of waiver thereof).
10. Columbia Gas and Columbia Gulf must receive written authorization from the Director of OEP **before placing their respective facilities into service**. Such authorization will only be granted following a determination that rehabilitation and restoration of the right-of-way and other areas affected by the project are proceeding satisfactorily.

11. **Within 30 days of placing the authorized facilities in service**, Columbia Gas and Columbia Gulf shall file affirmative statements with the Secretary, certified by a senior company official:
 - a. that the facilities have been constructed in compliance with all applicable conditions, and that continuing activities will be consistent with all applicable conditions; or
 - b. identifying which of the Certificate conditions the applicant has complied with or will comply with. This statement shall also identify any areas affected by their respective projects where compliance measures were not properly implemented, if not previously identified in filed status reports, and the reason for noncompliance.

12. Columbia Gas and Columbia Gulf shall develop and implement an environmental complaint resolution procedure during construction and for a period of at least 2 years following the completion of construction. The procedure shall provide landowners with clear and simple directions for identifying and resolving their environmental mitigation problems/concerns during construction of the MXP and the GXP and restoration of the right-of-way or compressor station site. **Prior to construction**, Columbia Gas and Columbia Gulf shall mail the complaint procedures to each landowner whose property will be crossed by the project.
 - a. In its letter to affected landowners, Columbia Gas and Columbia Gulf shall:
 - i. provide a local contact that the landowners should call first with their concerns; the letter should indicate how soon a landowner should expect a response;
 - ii. instruct the landowner that if they are not satisfied with the response, they should call Columbia Gas' or Columbia Gulf's Hotline; the letter should indicate how soon to expect a response; and
 - iii. instruct the landowners that if they are still not satisfied with the response from Columbia Gas' or Columbia Gulf's Hotline, they should contact the Commission's Landowner Helpline at 877-337-2237 or at LandownerHelp@ferc.gov.
 - b. In addition, Columbia Gas and Columbia Gulf shall include in its weekly/monthly status report a copy of a table that contains the following information for each problem/concern:
 - i. the identity of the caller and date of the call;

- ii. the location by milepost and identification number from the authorized alignment sheet(s) of the affected property;
- iii. a description of the problem/concern; and
- iv. an explanation of how and when the problem was resolved, will be resolved, or why it has not been resolved.

Conditions 13 through 25 apply only to Columbia Gas and shall be addressed before construction is allowed to commence.

13. **Prior to construction**, Columbia Gas shall finalize the design for and adopt the route variations on the Umstead (milepost [MP] 68.0), Hall (MP 97.1), and Elliot (MP 145.8) properties into its final proposed route for MXP-100. Columbia Gas shall file with the Secretary, for review and written approval by the Director of OEP:
 - a. aerial and/or topographic maps identifying the proposed route variation that addresses the identified landowner issue(s);
 - b. documentation of landowner consultation; and
 - c. documentation of any required surveys and agency consultations for each route variation. (*section 3.4*)
14. **Prior to construction**, Columbia Gas shall file with the Secretary, for review and written approval by the Director of OEP, the results of a Phase II Landslide Hazard Assessment, which includes the results of all field activities to investigate and document the status of all potential landslide areas, and provide a Landslide Mitigation Plan that includes site-specific mitigation measures Columbia Gas will implement during construction and operation of the project on steep slopes and slip-prone soils. The Landslide Mitigation Plan shall include:
 - a. a description of how construction activities will be conducted on steep slopes and in areas prone to instability;
 - b. safety protocols for personnel working on steep slopes or areas prone to instability;
 - c. measures Columbia Gas will implement if project-related activities result in instability/landslides during, and after, MXP construction; and
 - d. steps to be taken to stabilize and restore such areas affected by project-related activities.

Columbia Gas shall develop the Phase II Landslide Hazard Assessments and the Landslide Mitigation Plan in consultation with the West Virginia Department of Environmental Protection (WVDEP) and West Virginia Division of Natural Resources (WVDNR). (*section 4.1.4.4.1*)

15. **Prior to construction**, Columbia Gas shall:
 - a. file with the Secretary the location of all water wells and potable springs within 150 feet of all areas of disturbance associated with the MXP pipelines and related aboveground facilities; and
 - b. provide the status (active, abandoned, capped, etc.) of the two water wells located at MP 164.3 and, if active, identify measures to protect these water wells during construction, for review and written approval by the Director of OEP. (*section 4.3.1.3.1*)
16. **Prior to construction**, Columbia Gas shall consult with the appropriate government entities and/or water utilities to identify any specific protective measures for surface water protection areas that will be crossed by the MXP. The results of these consultations shall be filed with the Secretary. (*section 4.3.2.1.1*)
17. **Prior to construction**, Columbia Gas shall file with the Secretary any specific construction, restoration, replacement, and/or operation mitigation measures identified through its discussions with the WVDNR that Columbia Gas will implement to promote compatibility with the restoration and management of upland forested areas. (*section 4.5.4.1*)
18. **Prior to construction**, Columbia Gas shall develop, in consultation with the appropriate West Virginia state agencies and local Natural Resources Conservation Service, a noxious and invasive weed management plan. This plan shall include:
 - a. identification of the locations by milepost where noxious or invasive weeds are currently present either within or immediately adjacent to all areas of project-related disturbance; and
 - b. Best Management Practices that include integrated vegetation management and a site-specific plan for each location where weeds are present which:
 - i. describes options for pretreatment (including the month(s) of the year when pretreatment will be effective), treatment during construction (to avoid introducing or spreading invasive species), and post-construction treatment and monitoring;

- ii. identifies who was consulted regarding possible treatment options; and
- iii. includes whether the landowner/administrator has approved of the treatment options proposed.

Columbia Gas shall file this plan with the Secretary, for review and written approval from the Director of OEP, before implementation and include the comments of the various agencies consulted during its development. (*section 4.5.5.1*)

19. **Prior to construction**, Columbia Gas shall file with the Secretary an update of its Migratory Bird Treaty Act consultations with the U.S. Fish and Wildlife Service (USFWS) and WVDNR regarding the development of its Migratory Bird Treaty Act Tree Clearing Strategy (and provide a copy of the final plan, if available); and identify special measures, if any, that Columbia Gas will implement to reduce impacts on cerulean warbler habitat. (*section 4.6.3.1*)
20. **Prior to construction**, Columbia Gas shall:
- a. complete required mussel surveys **as soon as conditions allow** and file the results of the surveys with the Secretary and concurrently provide the survey results to the USFWS and WVDNR; and
 - b. file an update with the Secretary of any further discussions or progress made with the USFWS regarding recommendations on stream crossing locations and construction methodologies where federally protected mussel species may be present.

Columbia Gas **shall not begin construction** of the MXP until Commission staff has completed all necessary section 7 consultations with the USFWS for federally listed mussel species, and the Director of OEP authorizes construction or implementation of mitigation measures to begin. (*section 4.7.5.1*)

21. **Prior to construction**, Columbia Gas shall:
- a. complete required bat surveys **as soon as conditions allow** and file the survey results with the Secretary and concurrently provide the results to the USFWS and WVDNR; and
 - b. file an update with the Secretary of any further discussions or progress made with the USFWS regarding the Indiana bat and the northern long-eared bat.

- Columbia Gas **shall not begin construction** of the MXP until FERC staff has completed all necessary section 7 consultations with the USFWS for federally listed bat species, and the Director of OEP authorizes construction or implementation of mitigation measures to begin. (*section 4.7.6.1*)
22. **Prior to construction**, Columbia Gas shall file for review documentation with the Secretary regarding Columbia Gas' consultation with the WVDNR for sensitive mussel species, including any updated stream crossing plans and/or additional mitigation measures for all locations where sensitive mussels may occur. (*section 4.7.10.1*)
23. **Prior to construction**, Columbia Gas shall file with the Secretary, for review and written approval by the Director of OEP, an updated site-specific plan for Tract WV-DO-0278.007 near MP 51.0 and Tract WV-JA-0368.000 near MP 124.6 that includes specific impact avoidance or minimization measures for the fenced corral and shed. (*section 4.8.1.3.1*)
24. **Prior to construction**, Columbia Gas shall file with the Secretary, for review and written approval by the Director of OEP, a traffic management plan for the MXP, which includes:
- a. proposed measures for implementing any detours on public roadways;
 - b. timing shifts and worker commutes as to avoid heavy traffic periods; and
 - c. proposed measures for restoration of roadways damaged by project-related activities upon completion of construction. (*section 4.9.6.1*)
25. Columbia Gas **shall not begin implementation** of any treatment plans/measures (including archaeological data recovery), **construction** of facilities, and/or **use** of staging, storage, or temporary work areas and new or to-be-improved access roads **until**:
- a. Columbia Gas files all remaining archaeological resources survey report(s) and any required evaluation reports and treatment plans, and the SHPO's comments on the reports and plans;
 - b. the ACHP is provided an opportunity to comment on the undertaking if historic properties will be adversely affected; and
 - c. the Commission staff reviews and the Director of OEP approves all cultural resources survey reports and plans and notifies Columbia Gas in writing that treatment plans/mitigation measures may be implemented or construction may proceed.

All material filed with the Secretary that contains **location, character, and ownership information** about cultural resources must have the cover and any relevant pages therein clearly labeled in bold lettering: "**CUI/PRIV – DO NOT RELEASE.**" (*section 4.10.4.1*)

Conditions 26 through 28 apply only to Columbia Gas and shall be addressed before construction is allowed to commence within specific project areas.

26. **Prior to commencing construction activities between MP 50 – 51 and MP 113.3-114.3, Columbia Gas shall consult with the Doddridge County Park and Roane-Jackson Technical Center** to establish pre- and post-construction notification protocols and identify any special measures that may be needed to further reduce the potential for impacts on water quality and/or yield of Doddridge County Park Well #1 and Roane-Jackson Technical Center Wells #1, #2, and #3. Columbia Gas shall file with the Secretary documentation of its consultations, and proposed notification and mitigation measures, for review and approval by the Director of OEP. (*section 4.3.1.2.1*)
27. **Prior to withdrawing water for hydrostatic testing from Fish Creek, Piney Fork, Meathouse Fork, McElroy Creek, Slab Creek, or Frozencamp Creek,** Columbia Gas shall consult with the WVDNR to assess whether stream flow is sufficient to protect aquatic life, and to assess whether any specific measures to protect in-stream habitat and downstream uses are warranted at these waterbodies. The results of these consultations shall be filed with the Secretary. (*section 4.3.2.4.1*)
28. **Prior to the construction of the U.S. Highway 50 and Kanawha River crossings,** Columbia Gas shall file with the Secretary, for the review and written approval by the Director of OEP, a drilling noise mitigation plan to reduce the projected noise level attributable to the proposed drilling operations at nearby noise sensitive areas (NSAs). Columbia Gas shall notify residents in the vicinity of these drilling operations of its anticipated construction schedule and hours of operation. During drilling operations, Columbia Gas shall implement the approved plan, monitor noise levels, document the noise levels in its weekly status report, and make all reasonable efforts to restrict the noise attributable to the drilling operations to no more than a day-night sound level (L_{dn}) of 55 A-weighted decibels (dBA) at the NSAs. (*section 4.11.2.2.1*)

Condition 29 applies only to Columbia Gulf and shall be addressed before construction is allowed to commence.

29. **Prior to construction,** Columbia Gulf shall perform a nighttime site visit to the Leach C Meter Station to evaluate stray lighting that may be disruptive to its neighbors. If existing lighting can be angled in a direction that it is no longer a

nuisance to the adjacent residence, Columbia Gulf shall consider making an adjustment, provided it does not jeopardize the safety and/or security of the facility operations, and file a report with the Secretary identifying proposed modifications. (*section 4.8.3.2*)

Condition 30 applies only to Columbia Gulf and shall be addressed during construction, or before specific construction activities are allowed to commence and prior to operation of the GXP.

30. **Prior to removal of any ash tree from the GXP areas in Tennessee**, Columbia Gulf shall inspect all ash trees that will be removed for indications of emerald ash borer infestations, before transporting ash trees away from the area. If signs of an infestation exist, Columbia Gulf shall immediately contact the U.S. Department of Agriculture Emerald Ash Borer Hotline at 866-322-4512 to determine the appropriate method for disposing of the tree(s). **Prior to operation of the GXP**, Columbia Gulf shall file with the Secretary the results of these inspections. (*section 4.5.5.2*)

Condition 31 applies only to Columbia Gas and shall be addressed after construction.

31. **Following construction**, Columbia Gas shall conduct noxious and invasive species monitoring within the maintained rights-of-way **for 3 years** following successful completion of revegetation, and file with the Secretary the results of these surveys. Columbia Gas shall not move mowing and maintenance equipment from an area where invasive species have been encountered during operation of the project unless the equipment is cleaned to remove invasive species and seeds prior to moving. (*section 4.5.5.1*)

Conditions 32 through 35 apply to only Columbia Gas and shall be addressed after construction or during operation of the facilities.

32. Columbia Gas shall make all reasonable efforts to maintain its predicted noise levels from the Lone Oak, Sherwood, White Oak, Mount Olive, and Elk River Compressor Stations and ensure that these levels are not exceeded at nearby NSAs. Columbia Gas shall file noise surveys with the Secretary **no later than 60 days** after placing each of these stations in service. If a full load condition noise survey is not possible, Columbia Gas shall provide an interim survey at the maximum possible horsepower load and provide the full load survey **within 6 months**. If the noise attributable to the operation of all of the equipment at any of the compressor stations under interim or full horsepower load conditions exceeds an L_{dn} of 55 dBA at any nearby NSA, Columbia Gas shall file a report on what changes are needed and shall install the additional noise controls to meet the level **within 1 year** of the in-service date. Columbia Gas shall confirm

compliance with the above requirement by filing a second noise survey with the Secretary **no later than 60 days** after it installs the additional noise controls. (*section 4.11.2.2.2*)

33. Columbia Gas shall conduct a noise survey at the Ceredo Compressor Station to verify that the noise from all the equipment operated at full capacity does not exceed the previously existing noise levels that are at or above an L_{dn} of 55 dBA at the nearby NSAs. The results of this noise survey shall be filed with the Secretary no later than 60 days after placing the modified units in service. If a full load condition noise survey is not possible, Columbia Gas shall provide an interim survey at the maximum possible horsepower load and provide the full load survey **within 6 months**. If the noise attributable to the operation of all of the equipment at any of the compressor stations under interim or full horsepower load conditions exceeds previously existing noise levels, Columbia Gas shall, within 1 year of the in-service date, implement additional noise control measures to reduce the operating noise level at the NSAs to or below the previously existing noise level. Columbia Gas shall confirm compliance with this requirement by filing a second noise survey with the Secretary no later than 60 days after it installs the additional noise controls.
34. During operation of the MXP compressor stations, Columbia Gas shall make all reasonable efforts to notify nearby NSAs in advance of planned blowdown events.
35. Columbia Gas shall make all reasonable efforts to maintain its predicted noise levels from the Ripley and Saunders Creek Regulator Stations and ensure that these levels are not exceeded at nearby NSAs. Columbia Gas shall file a noise survey with the Secretary **no later than 60 days** after placing the Ripley and Saunders Creek Regulator Stations in service. If a full-load-condition noise survey of the entire station is not possible, Columbia Gas shall instead file an interim survey at the maximum flow and file the full-load survey **within 6 months**. If the noise attributable to the operation of all the equipment at any of these facilities under interim or full flow conditions exceeds 55 dBA L_{dn} at any nearby NSAs, Columbia Gas shall file a report on what changes are needed and shall install the additional noise controls to meet the level **within 1 year** of the in-service date. Columbia Gas shall confirm compliance with the 55 dBA L_{dn} requirement by filing a second noise survey with the Secretary **no later than 60 days** after it installs the additional noise controls. (*section 4.11.2.2.2*)

Conditions 36 and 37 apply to only Columbia Gulf and shall be addressed after construction or during operation of the facilities.

36. Columbia Gulf shall make all reasonable efforts to maintain its predicted noise levels from the GXP compressor stations and ensure that these levels are not exceeded at nearby NSAs. Columbia Gulf shall file a noise survey with the

Secretary **no later than 60 days** after placing each of the GXP compressor stations in service. If a full-load-condition noise survey of the entire station is not possible, Columbia Gulf shall instead file an interim survey at the maximum possible horsepower load and file the full-load survey **within 6 months**. If the noise attributable to operation of all the equipment at any compressor station under interim or full-horsepower-load conditions exceeds 55 dBA L_{dn} at any nearby NSAs, Columbia Gulf shall file a report on what changes are needed and shall install the additional noise controls to meet the level **within 1 year** of the in-service date. Columbia Gulf shall confirm compliance with the 55 dBA L_{dn} requirement by filing a second noise survey with the Secretary **no later than 60 days** after it installs the additional noise controls. (*section 4.11.2.3.2*)

37. During operations, Columbia Gulf shall make all reasonable efforts to notify nearby NSAs in advance of planned blowdown events at any of the GXP Compressor Stations.



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200
South Charleston WV 25303-1228
TDD (304) 558-1439
TDD 1-800-354-6087
Fax (304) 558-6048
Telephone (304) 558-3225

Jim Justice
Governor

Stephen S. McDaniel
Director

January 10, 2018

**Division of Natural Resources
LICENSE AND RIGHT OF ENTRY**

Re: CB-17-VI/09-2023

Columbia Gas Transmission, LLC
Eric Duncan
c/o ERM
Attention: Tim Andersen
1000 IDS Center, 80 S. Eighth Street
Minneapolis, MN 55402-

Dear Mr. Duncan:

The Division of Natural Resources hereby grants to you for a term of ten (10) years, from the date hereof, a License and Right of Entry to construct, replace, cover, repair, operate, maintain, use and remove an underground wire that connects the pipeline to an anode bed for corrosion protection (Mountain Xpress Project, Cathodic Protection) along an unnamed tributary of Meathouse Fork, near New Milton in Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A.

This License and Right of Entry is subject to the following terms and conditions:

High Quality Streams (HQS) as listed in the West Virginia Division of Natural Resources High Quality Stream Sixth Edition published in 2001 and for any trout streams and direct tributaries of trout streams:

- Directional boring is the only method permitted during the fish spawning season. Fish spawning season for warmwater streams runs from April 1st through June 30th. Trout spawning season runs from October 1st through April 30th.
- Other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used outside of spawning seasons.

Non-high quality stream:

- Directional boring or other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used at all times during fish spawning season from April 1st through June 30th. This eliminates the need for spawning season restrictions.

- Only ephemeral/intermittent streams that are dry can be trenched.

Bank Stabilization

All bank stabilization projects must begin immediately upon completion of utility line crossing.

Stream Crossings

Stream crossings must be completed in a continuous and progressive manner within 72 hours unless otherwise limited or extended by a WV biologist, on a case by case evaluation.

Freshwater Mussels

Mussel surveys on streams with known US Fish and Wildlife listed or candidate endangered species will be required if directional boring is not an option. Contact Janet Clayton of the WVDNR Wildlife Diversity Program for information concerning mussels at 304-637-0245.

For further assistance, contact the appropriate WVDNR District Fisheries Biologist.
District 1 304-825-6787 District 2 304-822-3551 District 3 304-924-6211
District 4 304-256-6947 District 5 304-675-0871 District 6 304-420-4550

The issuance of this License and Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this License and Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This License and Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this License and Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your check in the amount of \$75.00 is now due and payable to the Division of Natural Resources covering the (10) ten-year fee of this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,


Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

attachment

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers



○ Milepost	Permanent Workspace	1:12,000
Proposed Centerline	Temporary Workspace	
HQ Waters	Additional Temporary Workspace	0 500 1,000 Feet
Non-HQ Waters	Access Road	

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Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

ERM



DIVISION OF NATURAL RESOURCES

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Jim Justice
Governor

Stephen S. McDaniel
Director

December 14, 2017

Division of Natural Resources
RIGHT OF ENTRY

Re: **LS-17-VI/09-2019**

Columbia Gas Transmissions, LLC
Eric Duncan
c/o ERM
Attention: Tim Andersen
1000 IDS Center, 80 S. Eighth Street
Minneapolis, MN 55402-

Dear Mr. Duncan:

The Division of Natural Resources hereby grants to you for a period of ten (10) years from the date hereof, a Right of Entry to install, use and maintain a timber mat crossing at thirty-five (35) separate locations and a culvert crossing of various sizes (see Exhibit A - D) in the streambeds at one-hundred-seventy-four (174) separate locations (Mountain Xpress Project) along unnamed tributaries of Elklick Run, unnamed tributaries of McElroy Creek, an unnamed tributary of Brush Run, unnamed tributaries of Israel Fork, unnamed tributaries of Wolfpen, Left Fork Arnold Creek, unnamed tributaries of Left Fork Arnold Creek, unnamed tributaries of South Fork Hughes River, Taylor Drain, unnamed tributaries of Taylor Drain, Sugar Run, unnamed tributaries of Sugar Run, unnamed tributaries of Meathouse Fork, unnamed tributaries of Toms Fork, unnamed tributaries of Ralphs Run, unnamed tributaries of Neds Run, unnamed tributaries of Flint Run, England Run, unnamed tributaries of Englands Run, Morgans Run, unnamed tributaries of Morgans Run, unnamed tributaries of Buckeye Creek, unnamed tributaries of Douglascamp Run, Georgescamp Run, unnamed tributaries of Georgescamp Run, unnamed tributaries of Bluestone Creek, unnamed tributaries of Big Run, and an unnamed tributary of Lick Run near Jacksonburg, Smithburg, West Union, Pullman, New Milton in Doddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

1. No in stream work during the fish-spawning season (April 1-June 30).
2. Work should be completed as quickly as possible during low flows in designated work areas only.

3. Any streambed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
4. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
5. Green concrete must not be put in the stream (highly toxic to aquatic life).
6. Guidance should be obtained from NRCS (formerly SCS) and a registered engineer for the design and construction. Must allow for passage of at least ten-year year flood flow.
7. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.
8. Applicant is responsible for removing debris from in and around the installation periodically to prevent stream flow obstruction.
9. Durable head walls of logs, crossties, rock, or concrete shall be constructed at both the upstream and downstream ends of crossing to prevent erosion of fill material into the stream.
10. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State assume any liability for the applicant's/landowner's construction activities. By accepting this Right-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this activity to both upstream and downstream landowners.


Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity for you to obtain a permit from the U.S. Corps of Engineers District Office, Permit Section, or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Columbia Gas Transmissions, LLC
LS-17-VI/09-2019
Page 3
December 14, 2017

Your payment is now due and payable in the amount of \$20900.00 to the Division of Natural Resources covering the first year's annual fee of this agreement. Your agreement will be effective upon receipt of your payment in full. You must notify this office in writing when this installation has been removed.

Sincerely,


Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers

Exhibit A

LS-17-VI/09-2019

County/ Route/ Milepost	Unique ID	Waterbody Name	Nearest City/Town	Crossing Method	Culvert Length (feet)	Culvert Diameter
Doddridge						
MXP - 100						
36.3	sdog523	UNT to Elklick Run	Jacksonburg	Culvert	31	16 inch
37.0	sdog515	UNT to Elklick Run	Jacksonburg	Culvert	36	16 inch
37.0	sdog516	UNT to Elklick Run	Jacksonburg	Culvert	22	16 inch
37.0	sdog516	UNT to Elklick Run	Jacksonburg	Culvert	15	16 inch
37.0	sdog517	UNT to Elklick Run	Jacksonburg	Culvert	27	16 inch
37.0	sdog517	UNT to Elklick Run	Jacksonburg	Culvert	12	16 inch
37.0	sdog521	UNT to Elklick Run	Jacksonburg	Culvert	31	16 inch
37.0	sdog375	UNT to Elklick Run	Jacksonburg	Culvert	31	24 inch
37.0	sdog518	UNT to Elklick Run	Jacksonburg	Culvert	31	16 inch
37.0	sdog522	UNT to Elklick Run	Jacksonburg	Culvert	12	16 inch
37.0	sdog522	UNT to Elklick Run	Jacksonburg	Culvert	23	16 inch
37.0	sdog519	UNT to Elklick Run	Jacksonburg	Culvert	31	16 inch
37.1	sdog520	UNT to Elklick Run	Jacksonburg	Culvert	30	16 inch
37.5	sdoi429	UNT to Elklick Run	Jacksonburg	Culvert	38	16 inch
38.3	sdog377	UNT to McElroy Creek	Smithburg	Culvert	98	16 inch
38.4	sdoi013	UNT to McElroy Creek	Smithburg	Culvert	142	16 inch
40.2	sdog514	UNT to Ralphs Run	Smithburg	Culvert	35	24 inch
42.3	sdog317	UNT to Neds Run	Smithburg	Culvert	19	16 inch
42.3	sdog318	UNT to Neds Run	Smithburg	Culvert	18	16 inch
42.3	sdog319	UNT to Neds Run	Smithburg	Culvert	21	16 inch
42.4	sdog321	UNT to Neds Run	Smithburg	Culvert	17	16 inch
42.6	sdog327	UNT to Neds Run	Smithburg	Culvert	23	24 inch
42.6	sdog328	UNT to Neds Run	Smithburg	Culvert	17	16 inch
42.6	sdog329	UNT to Neds Run	Smithburg	Culvert	18	16 inch
42.6	sdog330	UNT to Neds Run	Smithburg	Culvert	17	16 inch
43.0	sdog353	UNT to Neds Run	Smithburg	Culvert	53	16 inch
43.9	sdog370	UNT to Flint Run	Smithburg	Culvert	31	16 inch
44.1	sdog373	UNT to Flint Run	Smithburg	Culvert	190	16 inch
44.2	sdog535	UNT to Flint Run	Smithburg	Culvert	31	16 inch
44.3	sdog534	UNT to Flint Run	Smithburg	Culvert	31	16 inch
44.4	sdog533	UNT to Flint Run	Smithburg	Culvert	32	16 inch
44.4	sdog531	UNT to Flint Run	Smithburg	Culvert	20	16 inch
45.8	sdog406	UNT to Israel Fork	Smithburg	Culvert	47	16 inch
45.8	sdog501	UNT to Israel Fork	Smithburg	Culvert	31	16 inch
45.9	sdog419	UNT Wolfpen Run	Smithburg	Culvert	32	24 inch
45.9	sdo0328	UNT Wolfpen Run	Smithburg	Culvert	115	16 inch
46.2	sdog414	UNT Wolfpen Run	Smithburg	Culvert	36	16 inch
46.2	sdog505	UNT Wolfpen Run	Smithburg	Culvert	8	16 inch
46.2	sdog413	UNT Wolfpen Run	Smithburg	Culvert	65	24 inch
46.2	sdog510	UNT Wolfpen Run	Smithburg	Culvert	20	16 inch
46.2	sdog509	UNT Wolfpen Run	Smithburg	Culvert	41	16 inch
46.2	sdog510	UNT Wolfpen Run	Smithburg	Culvert	45	16 inch
46.2	sdog407	UNT Wolfpen Run	Smithburg	Culvert	19	16 inch
46.2	sdog407	UNT Wolfpen Run	Smithburg	Culvert	31	16 inch
46.2	sdog511	UNT Wolfpen Run	Smithburg	Culvert	38	16 inch

Exhibit B

LS-17-VI/09-2019

46.2	sdog511	UNT Wolfpen Run	Smithburg	Culvert	302	16 inch
46.3	sdog408	UNT Wolfpen Run	Smithburg	Culvert	34	16 inch
46.3	sdog408	UNT Wolfpen Run	Smithburg	Culvert	14	16 inch
46.3	sdog409	UNT Wolfpen Run	Smithburg	Culvert	17	16 inch
46.3	sdog410	UNT Wolfpen Run	Smithburg	Culvert	10	16 inch
47.0	sdo0323	UNT to Englands Run	Smithburg	Culvert	13	16 inch
47.3	sdo0319	UNT to Englands Run	Smithburg	Culvert	18	16 inch
47.3	sdo0316	UNT to Englands Run	Smithburg	Culvert	37	24 inch
47.3	sdo0318	UNT to Englands Run	Smithburg	Culvert	45	16 inch
47.6	sdog383	UNT to Morgans Run	Smithburg	Culvert	31	16 inch
47.6	sdog386	UNT to Morgans Run	Smithburg	Culvert	15	24 inch
47.6	sdog385	UNT to Morgans Run	Smithburg	Culvert	35	16 inch
47.7	sdog386	UNT to Morgans Run	Smithburg	Culvert	26	24 inch
47.7	sdog380	UNT to Morgans Run	Smithburg	Culvert	38	16 inch
47.7	sdog386	UNT to Morgans Run	Smithburg	Culvert	20	24 inch
47.7	sdog386	UNT to Morgans Run	Smithburg	Culvert	39	24 inch
47.7	sdog387	UNT to Morgans Run	Smithburg	Culvert	163	16 inch
47.7	sdog389	Morgans Run	Smithburg	Culvert	26	36 inch
48.3	sdog346	UNT to Buckeye Creek	Smithburg	Culvert	17	16 inch
48.3	sdog343	Englands Run	Smithburg	Culvert	32	36 inch
48.3	sdog344	UNT to Buckeye Creek	Smithburg	Culvert	21	16 inch
48.3	sdog342	UNT to Buckeye Creek	Smithburg	Culvert	34	24 inch
48.3	sdog342	UNT to Buckeye Creek	Smithburg	Culvert	87	24 inch
48.4	sdog342	UNT to Buckeye Creek	Smithburg	Culvert	24	24 inch
49.0	sdoi418	UNT to Douglascamp Run	Smithburg	Culvert	31	24 inch
49.0	sdoi422	UNT to Douglascamp Run	Smithburg	Culvert	306	16 inch
49.0	sdoi422	UNT to Douglascamp Run	Smithburg	Culvert	82	16 inch
49.0	sdoi422	UNT to Douglascamp Run	Smithburg	Culvert	23	16 inch
49.1	sdoi422	UNT to Douglascamp Run	Smithburg	Culvert	32	16 inch
49.4	sdoi417	UNT to Douglascamp Run	Smithburg	Culvert	31	16 inch
49.4	sdoi420	UNT to Douglascamp Run	Smithburg	Culvert	68	16 inch
49.6	sdoi402	UNT to Douglascamp Run	Smithburg	Culvert	12	16 inch
49.6	sdoi402	UNT to Douglascamp Run	Smithburg	Culvert	17	16 inch
49.6	sdoi402	UNT to Douglascamp Run	Smithburg	Culvert	122	16 inch
49.6	sdoi403	UNT to Douglascamp Run	Smithburg	Culvert	55	16 inch
49.6	sdoi403	UNT to Douglascamp Run	Smithburg	Culvert	57	16 inch
49.6	sdoi403	UNT to Douglascamp Run	Smithburg	Culvert	129	16 inch
49.6	sdoi403	UNT to Douglascamp Run	Smithburg	Culvert	152	16 inch
49.6	sdoi403	UNT to Douglascamp Run	Smithburg	Culvert	156	16 inch
50.3	sdog350	UNT to Meathouse Fork	Smithburg	Culvert	25	24 inch
50.5	sdoh027 ^c	UNT to Meathouse Fork	Smithburg	Culvert	74	16 inch
51.8	sdog073	Georgescamp Run	Smithburg	Culvert	46	24 inch
51.8	sdo0857	UNT Georgescamp Run	Smithburg	Culvert	8	16 inch
51.8	sdo0855	UNT Georgescamp Run	Smithburg	Culvert	33	16 inch
51.8	sdo0853	UNT Georgescamp Run	Smithburg	Culvert	34	16 inch
51.8	sdog073	Georgescamp Run	Smithburg	Culvert	40	24 inch
51.9	sdon810	UNT Georgescamp Run	Smithburg	Culvert	9	16 inch
52.1	sdo0851	UNT Georgescamp Run	Smithburg	Culvert	12	16 inch
52.1	sdo0850	UNT Georgescamp Run	Smithburg	Culvert	21	16 inch

Exhibit C

LS-17-VI/09-2019

52.2	sdo0848	UNT Georgescamp Run	Smithburg	Culvert	31	24 inch
52.3	sdog073	Georgescamp Run	Smithburg	Culvert	49	24 inch
52.3	sdo0847	UNT Georgescamp Run	Smithburg	Culvert	31	24 inch
52.4	sdog073	Georgescamp Run	Smithburg	Culvert	21	24 inch
52.4	sdo0846	UNT Georgescamp Run	Smithburg	Culvert	33	16 inch
52.4	sdo0845	UNT Georgescamp Run	Smithburg	Culvert	97	16 inch
52.5	sdo0844	UNT Georgescamp Run	Smithburg	Culvert	22	24 inch
52.5	sdog073	Georgescamp Run	Smithburg	Culvert	30	24 inch
52.6	sdo0826	UNT Georgescamp Run	Smithburg	Culvert	36	16 inch
52.7	sdo0824	UNT Georgescamp Run	Smithburg	Culvert	31	16 inch
52.7	sdo0825	UNT Georgescamp Run	Smithburg	Culvert	31	16 inch
52.9	sdog073	Georgescamp Run	Smithburg	Culvert	33	24 inch
52.9	sdo0828	UNT Georgescamp Run	Smithburg	Culvert	23	16 inch
52.9	sdo0829	UNT Georgescamp Run	Smithburg	Culvert	14	16 inch
53.2	sdo0830	UNT Georgescamp Run	Smithburg	Culvert	7	16 inch
53.2	sdo0831	UNT Georgescamp Run	Smithburg	Culvert	21	16 inch
53.2	sdo0832	UNT Georgescamp Run	Smithburg	Culvert	13	16 inch
53.2	sdo0833	UNT Georgescamp Run	Smithburg	Culvert	32	16 inch
53.2	sdo0834	UNT Georgescamp Run	Smithburg	Culvert	15	16 inch
53.3	sdo0836	UNT Georgescamp Run	Smithburg	Culvert	31	16 inch
53.3	sdo0837	UNT Georgescamp Run	Smithburg	Culvert	8	16 inch
53.3	sdo0838	UNT Georgescamp Run	Smithburg	Culvert	33	16 inch
53.3	sdo0840	UNT Georgescamp Run	Smithburg	Culvert	12	16 inch
53.3	sdo0841	UNT Georgescamp Run	Smithburg	Culvert	12	16 inch
53.3	sdo0842	UNT Georgescamp Run	Smithburg	Culvert	38	16 inch
53.3	sdo0843	UNT Georgescamp Run	Smithburg	Culvert	8	16 inch
53.8	sdog538	UNT to Bluestone Creek	Smithburg	Culvert	33	16 inch
53.9	sdog211	UNT to Bluestone Creek	Smithburg	Culvert	38	24 inch
54.2	sdog539	UNT to Bluestone Creek	Smithburg	Culvert	33	24 inch
54.2	sdog539	UNT to Bluestone Creek	Smithburg	Culvert	32	24 inch
54.3	sdog201	UNT to Bluestone Creek	Smithburg	Culvert	18	16 inch
56.1	sdo0310	UNT to Left Fork Arnold Creek	West Union	Culvert	51	16 inch
56.1	sdo0308	UNT to Left Fork Arnold Creek	West Union	Culvert	27	16 inch
56.1	sdo0309	UNT to Left Fork Arnold Creek	West Union	Culvert	12	16 inch
56.2	sdo0308	UNT to Left Fork Arnold Creek	West Union	Culvert	51	16 inch
56.2	sdo0308	UNT to Left Fork Arnold Creek	West Union	Culvert	171	16 inch
56.2	sdo0313	Left Fork Arnold Creek	West Union	Culvert	33	24 inch
56.3	sdo0307	UNT to Left Fork Arnold Creek	West Union	Culvert	32	24 inch
56.3	sdo0312	UNT to Left Fork Arnold Creek	West Union	Culvert	31	24 inch
57.1	sdoi311	UNT to Big Run	New Milton	Culvert	37	16 inch
57.1	sdoi312	UNT to Big Run	New Milton	Culvert	31	24 inch
59.6	sdoi323	UNT to South Fork Hughes River	Pullman	Culvert	240	24 inch
60.4	sdoi304	UNT to Taylor Drain	Pullman	Culvert	35	16 inch
60.5	sdoi306	UNT to Taylor Drain	Pullman	Culvert	33	24 inch
60.7	sdoi307	UNT to Taylor Drain	Pullman	Culvert	56	16 inch
61.5	sdo0814	UNT to Sugar Run	Pullman	Culvert	81	16 inch
61.5	sdo0814	UNT to Sugar Run	Pullman	Culvert	48	24 inch
61.6	sdo0816	UNT to Sugar Run	Pullman	Culvert	31	16 inch
61.6	sdo0816	UNT to Sugar Run	Pullman	Culvert	171	16 inch

Exhibit D

LS-17-VI/09-2019

61.7	sdo0817	UNT to Sugar Run	Pullman	Culvert	55	16 inch
MXP - 200						
2.8	sdoi405	UNT to Lick Run	New Milton	Culvert	21	16 inch
3.0	sdoi408	UNT to Meathouse Fork	New Milton	Culvert	8	16 inch
3.0	sdoi406	UNT to Meathouse Fork	New Milton	Culvert	37	16 inch
3.0	sdoi410	UNT to Meathouse Fork	New Milton	Culvert	38	24 inch
3.0	sdoi410	UNT to Meathouse Fork	New Milton	Culvert	19	24 inch
3.0	sdoi410	UNT to Meathouse Fork	New Milton	Culvert	54	24 inch
3.0	sdoi410	UNT to Meathouse Fork	New Milton	Culvert	79	24 inch
3.0	sdoi410	UNT to Meathouse Fork	New Milton	Culvert	248	24 inch
3.1	sdog310	UNT to Meathouse Fork	New Milton	Culvert	124	24 inch
3.1	sdog311	UNT to Meathouse Fork	New Milton	Culvert	105	24 inch
3.1	sdog310	UNT to Meathouse Fork	New Milton	Culvert	77	24 inch
3.1	sdog311	UNT to Meathouse Fork	New Milton	Culvert	106	24 inch
3.1	sdog310	UNT to Meathouse Fork	New Milton	Culvert	92	24 inch
3.1	sdog312	UNT to Meathouse Fork	New Milton	Culvert	12	16 inch
3.1	sdog313	UNT to Meathouse Fork	New Milton	Culvert	16	16 inch
3.1	sdog310_alt	UNT to Meathouse Fork	New Milton	Culvert	189	16 inch
3.1	sdog310	UNT to Meathouse Fork	New Milton	Culvert	75	24 inch
3.1	sdog310_alt	UNT to Meathouse Fork	New Milton	Culvert	255	16 inch
3.1	sdog314	UNT to Meathouse Fork	New Milton	Culvert	19	16 inch
3.1	sdog315	UNT to Meathouse Fork	New Milton	Culvert	17	16 inch
3.1	sdog310	UNT to Meathouse Fork	New Milton	Culvert	208	24 inch
3.2	sdog310	UNT to Meathouse Fork	New Milton	Culvert	45	24 inch
3.2	sdog310_alt	UNT to Meathouse Fork	New Milton	Culvert	632	16 inch
3.2	sdog310	UNT to Meathouse Fork	New Milton	Culvert	232	24 inch
3.2	sdog310	UNT to Meathouse Fork	New Milton	Culvert	29	24 inch
3.3	sdog308	UNT to Meathouse Fork	New Milton	Culvert	116	16 inch
3.3	sdoa003_ext	UNT Toms Fork	New Milton	Culvert	61	16 inch
3.3	sdog306	UNT to Meathouse Fork	New Milton	Culvert	69	16 inch
3.4	sdoi416	UNT Toms Fork	New Milton	Culvert	17	16 inch
3.4	sdoa003	UNT Toms Fork	New Milton	Culvert	12	16 inch



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200
South Charleston WV 25303-1228
TDD (304) 558-1439
TDD 1-800-354-6087
Fax (304) 558-6048
Telephone (304) 558-3225

Jim Justice
Governor

Stephen S. McDaniel
Director

January 10, 2018

Division of Natural Resources
LICENSE AND RIGHT OF ENTRY

Re: P-17-VI/09-2018

Columbia Gas Transmissions, LLC
Eric Duncan
c/o ERM
Attention: Tim Andersen
1000 IDS Center, 80 S. Eighth Street
Minneapolis, MN 55402-

Dear Mr. Duncan:

The Division of Natural Resources hereby grants to you for a term of ten (10) years, from the date hereof, a License and Right of Entry to construct, replace, cover, repair, operate, maintain, use and remove a thirty-six inch (36") steel natural gas pipeline at forty-one (41) separate locations, a twenty-four inch (24") pipeline at nine (9) separate locations (Mountain Xpress Project) along Elklick Run, unnamed tributaries of McElroy Creek, Riggins Run, Brush Run, Neds Run, unnamed tributaries of Neds Run, an unnamed tributary of Flint Run, unnamed tributaries of Israel Fork, unnamed tributaries of Wolfpen Run, unnamed tributaries of Buckeye Creek, unnamed tributaries of Meathouse Fork, Georgescamp Run, unnamed tributaries of Georgescamp Run, unnamed tributaries of Bluestone Creek, Left Fork Arnold Creek, unnamed tributaries of Left Fork Arnold Creek, Taylor Drain, an unnamed tributary of Taylor Drain, Sugar Run, unnamed tributaries of Sugar Run, Lick Run, and an unnamed tributary of Toms Fork, near Jacksonburg, Smithburg, West Union, Pullman, and New Milton in Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A - P.

This License and Right of Entry is subject to the following terms and conditions:

High Quality Streams (HQS) as listed in the West Virginia Division of Natural Resources High Quality Stream Sixth Edition published in 2001 and for any trout streams and direct tributaries of trout streams:

- Directional boring is the only method permitted during the fish spawning season. Fish spawning season for warmwater streams runs from April 1st through June 30th. Trout spawning season runs from October 1st through April 30th.
- Other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used outside of

spawning seasons.

Non-high quality stream:

- Directional boring or other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used at all times during fish spawning season from April 1st through June 30th. This eliminates the need for spawning season restrictions.
- Only ephemeral/intermittent streams that are dry can be trenched.

Bank Stabilization

All bank stabilization projects must begin immediately upon completion of utility line crossing.

Stream Crossings

Stream crossings must be completed in a continuous and progressive manner within 72 hours unless otherwise limited or extended by a WV biologist, on a case by case evaluation.

Freshwater Mussels

Mussel surveys on streams with known US Fish and Wildlife listed or candidate endangered species will be required if directional boring is not an option. Contact Janet Clayton of the WVDNR Wildlife Diversity Program for information concerning mussels at 304-637-0245.

For further assistance, contact the appropriate WVDNR District Fisheries Biologist.
District 1 304-825-6787 District 2 304-822-3551 District 3 304-924-6211
District 4 304-256-6947 District 5 304-675-0871 District 6 304-420-4550

The issuance of this License and Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this License and Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This License and Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this License and Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your check in the amount of \$22400.00 is now due and payable to the Division of Natural Resources covering the (10) ten-year fee of this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,



Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

Columbia Gas Transmissions, LLC

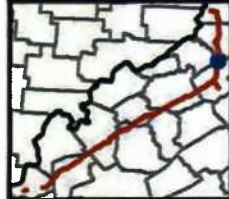
P-17-VI/09-2018

Page 2

January 10, 2018

attachment

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers



○ Milepost	Permanent Workspace
— Proposed Centerline	Temporary Workspace
■ Non-HQ Waters	Additional Temporary Workspace
	Access Road

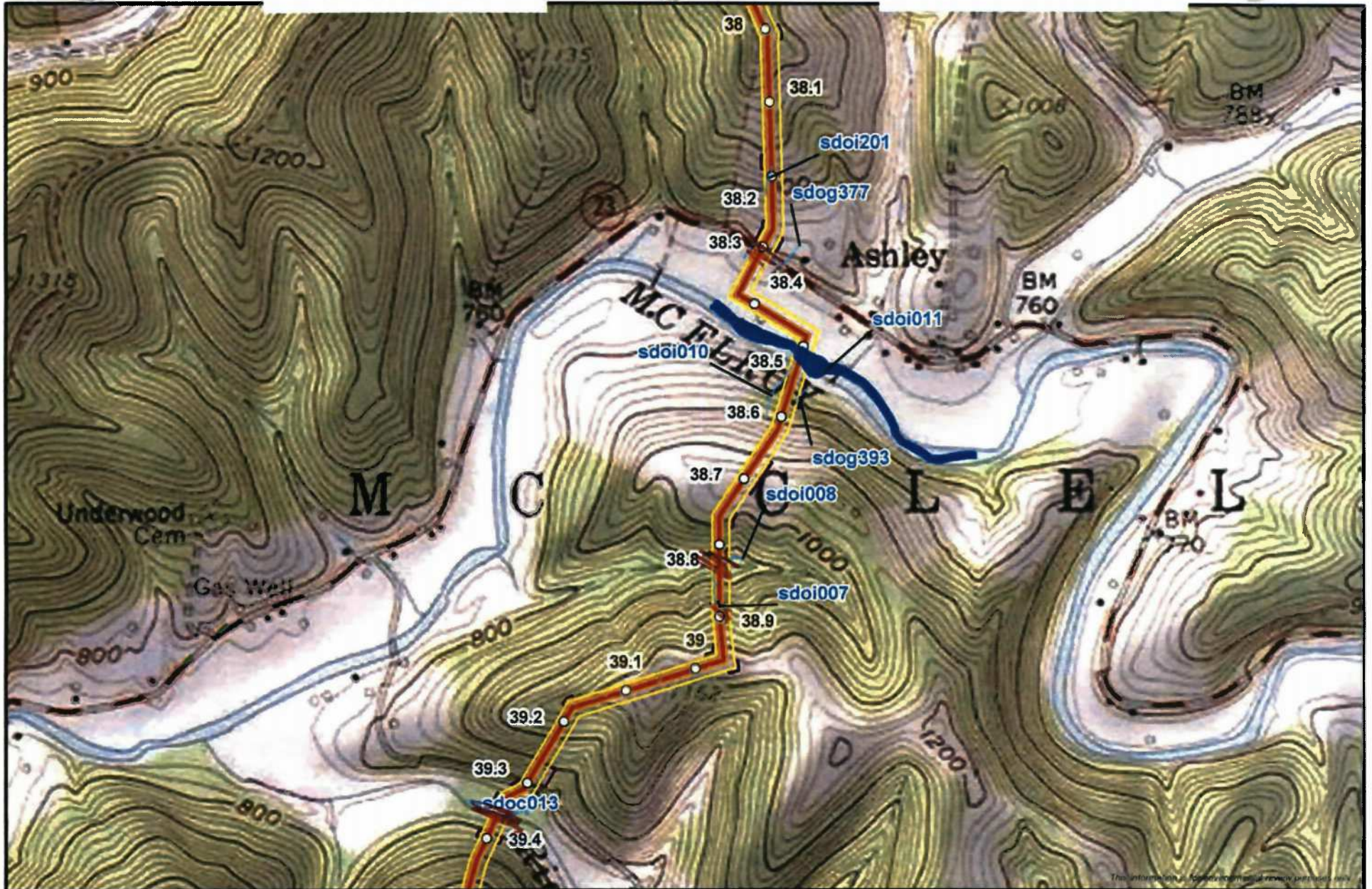
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Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
Doddridge County, WV
Mountaineer XPress Project
Columbia Gas Transmission

Page 1 of 16

Columbia Gas Transmission

ERM



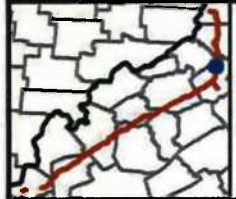
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— Proposed Centerline	Temporary Workspace	
■ HQ Waters	Additional Temporary Workspace	
■ Non-HQ Waters	Access Road	

Page 2 of 16

Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

Exhibit C

P-17-VI/09-2018



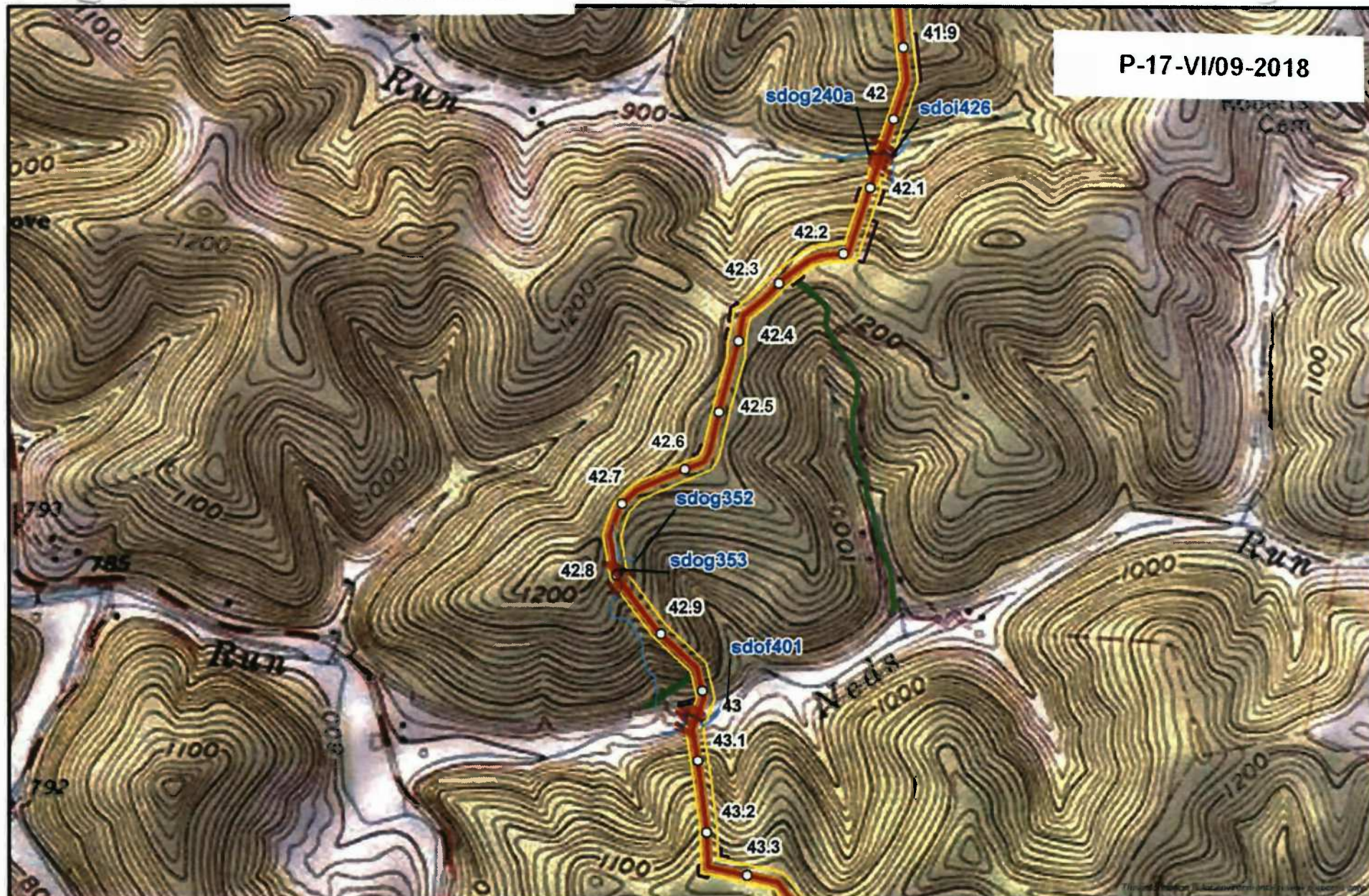
- Milepost
- Proposed Centerline
- Non-HQ Waters
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Road



Figure 4B Page 3 of 16
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

Exhibit D

P-17-VI/09-2018



	○ Milepost	Permanent Workspace		<p>Figure 4B Waterbodies in the Pipeline Right-of-Way and Other Workspaces Topographic Map Doddridge County, WV Mountaineer XPress Project Columbia Gas Transmission</p>	<p>Page 4 of 16</p>
	— Proposed Centerline	Temporary Workspace			



- Milepost
- Proposed Centerline
- HQ Waters
- Non-HQ Waters
- Permanent Workspace
- Temporary Workspace
- Additional Temporary Workspace
- Access Road

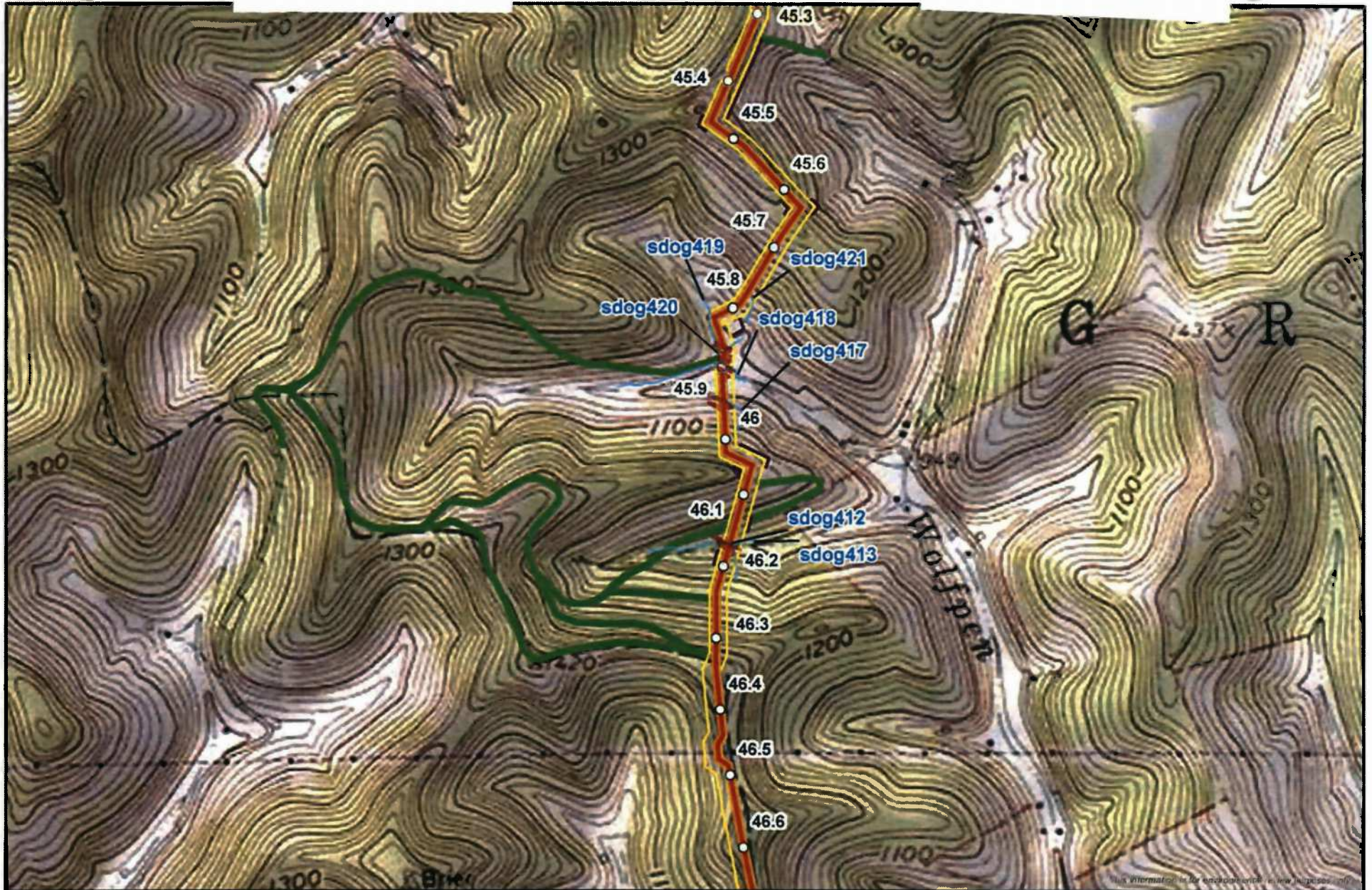
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Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

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○ Milepost	Permanent Workspace
— Proposed Centerline	Temporary Workspace
■ Non-HQ Waters	Additional Temporary Workspace
	Access Road

1:12,000

0 500 1,000 Feet

Page 6 of 16

Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

ERM

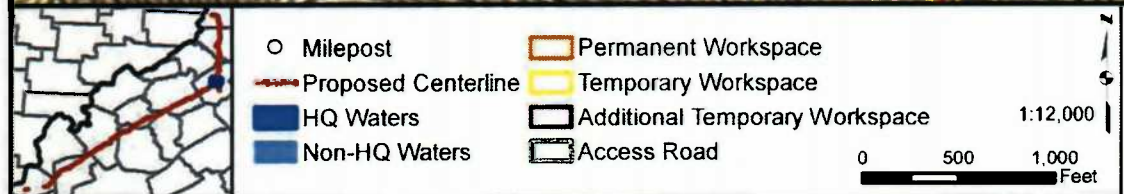


Figure 4B
 Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

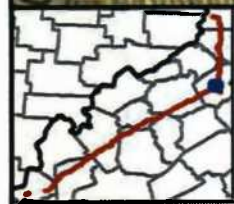
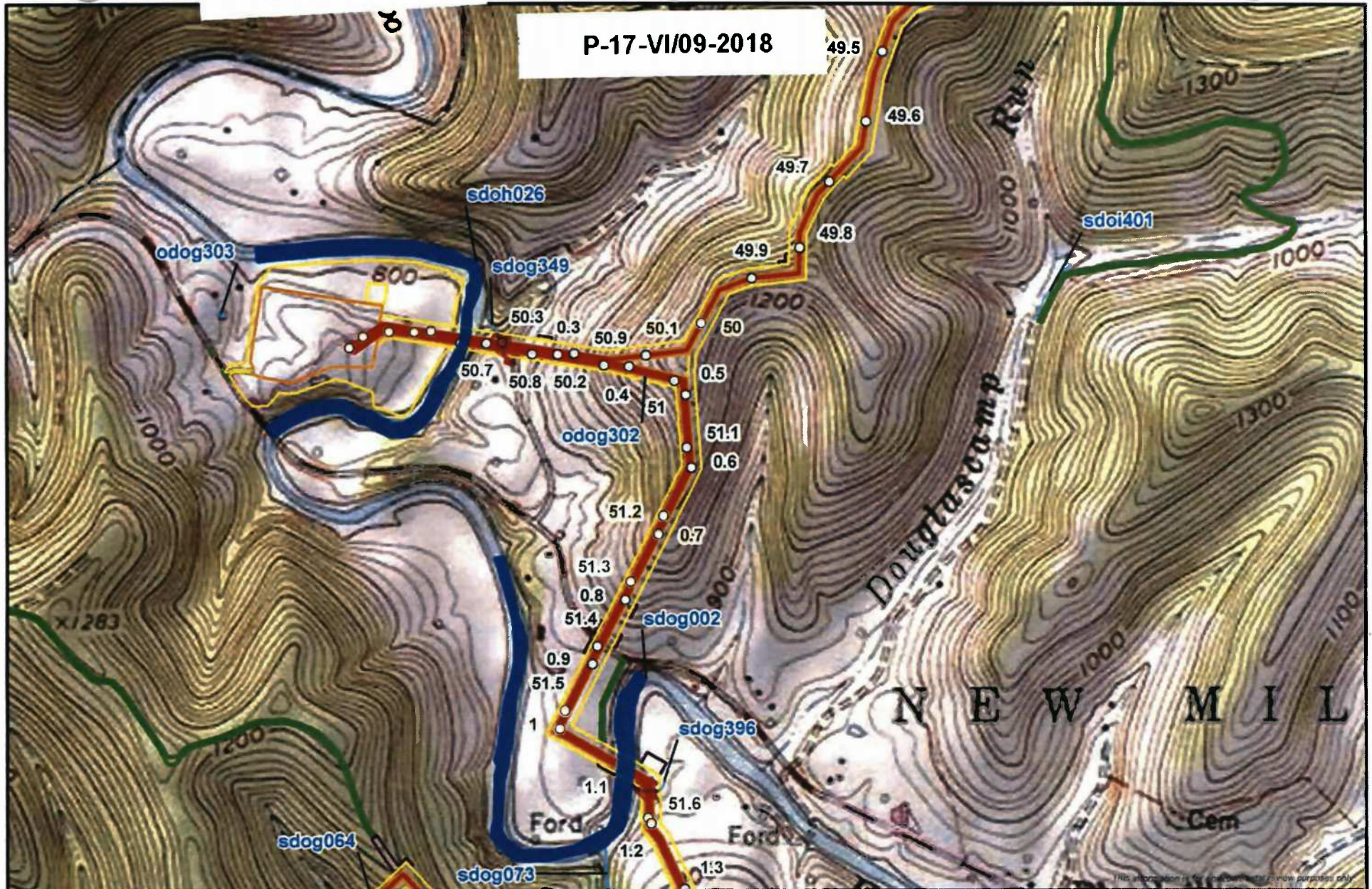
Page 7 of 16

Columbia Gas Transmission

ERM

Exhibit H

P-17-VI/09-2018



- Milepost
- Proposed Centerline
- HQ Waters
- Non-HQ Waters
- Permanent Workspace
- Temporary Workspace
- Additional Temporary Workspace
- Access Road

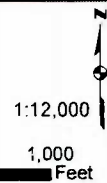


Figure 4B Page 8 of 16
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

Exhibit I

P-17-VI/09-2018

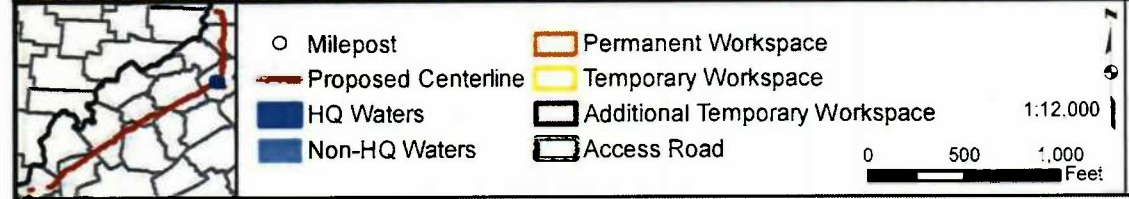
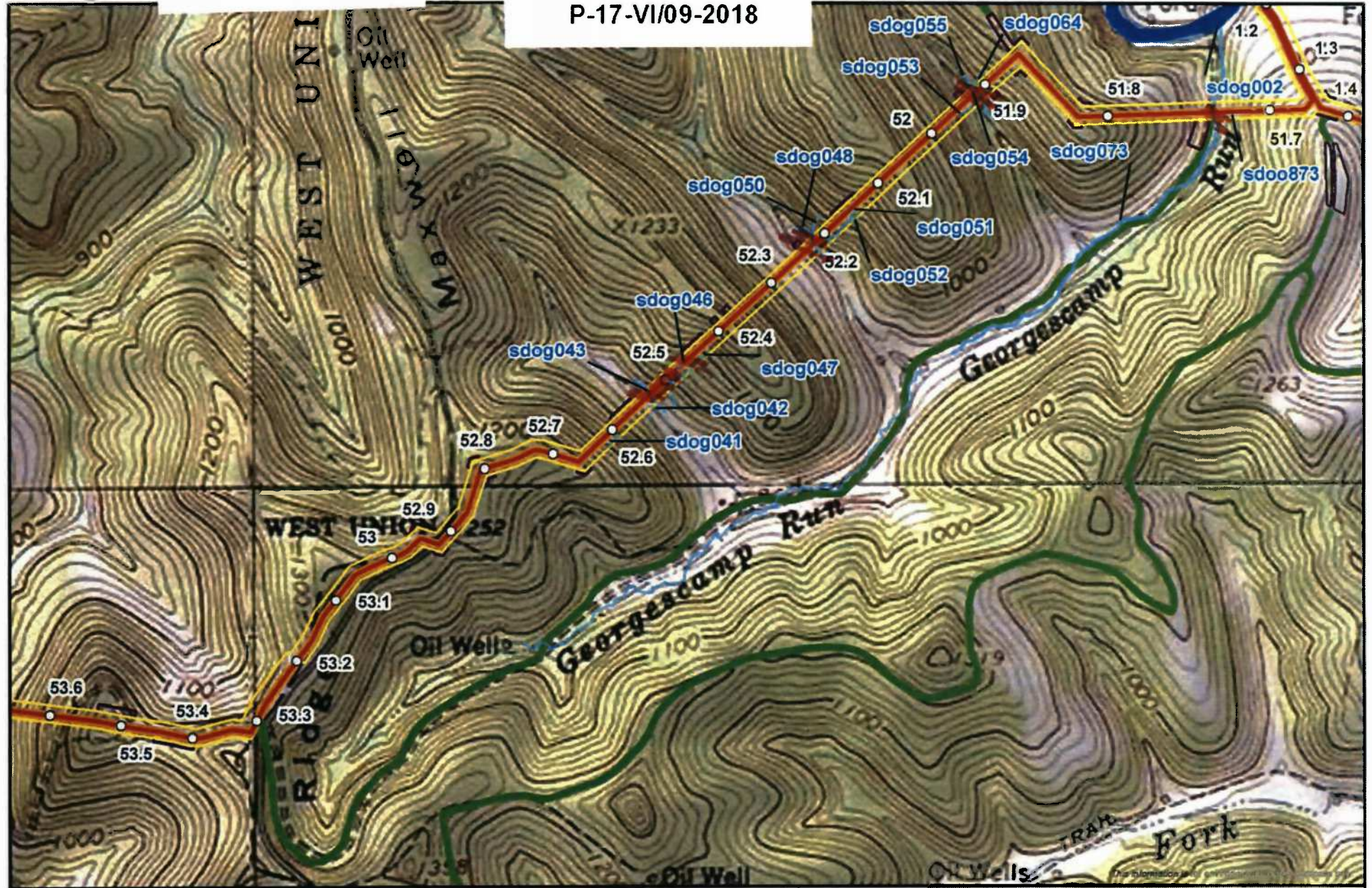


Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

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Columbia Gas Transmission

ERM



○ Milepost	Permanent Workspace	1:12,000
— Proposed Centerline	Temporary Workspace	
■ HQ Waters	Additional Temporary Workspace	
■ Non-HQ Waters	Access Road	

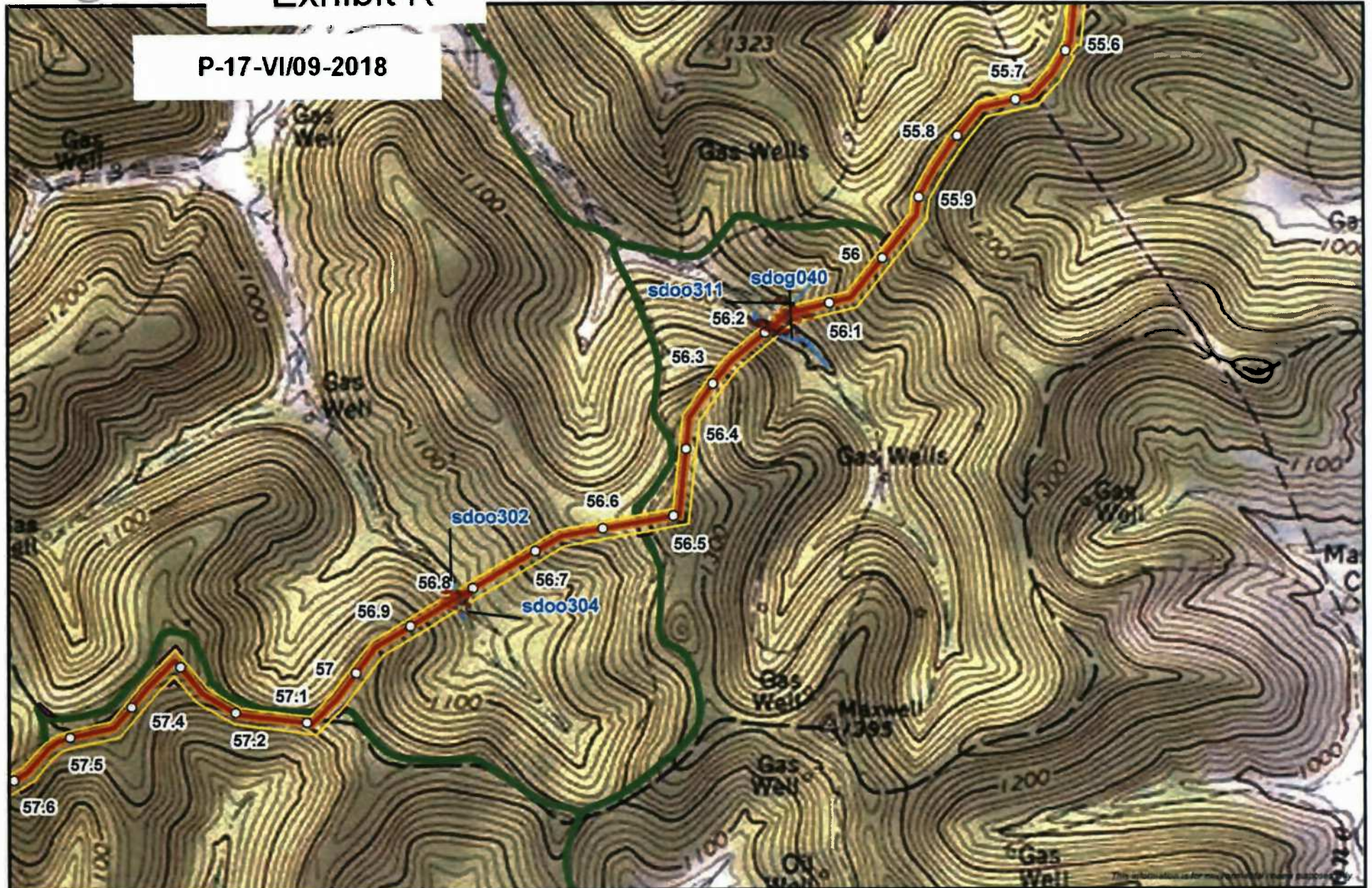
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Figure 4B Page 10 of 16
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

Columbia Gas Transmission
 ERM

Exhibit K

P-17-VI/09-2018



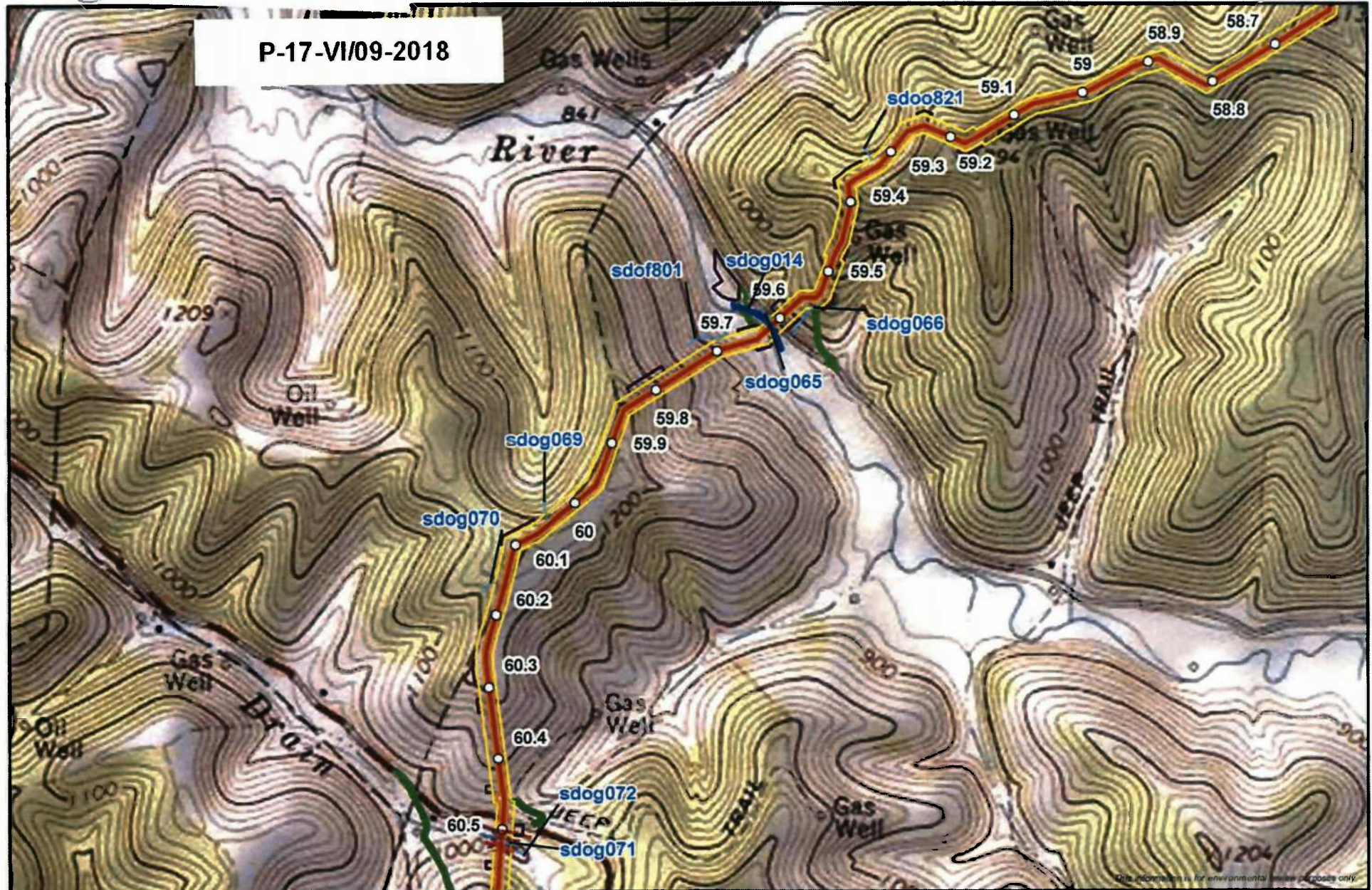
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 - Proposed Centerline
 - Non-HQ Waters
 - ▭ Permanent Workspace
 - ▭ Temporary Workspace
 - ▭ Additional Temporary Workspace
 - ▭ Access Road
- Scale: 1:12,000
0 500 1,000 Feet

Figure 4B Page 11 of 16
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
Doddridge County, WV
Mountaineer XPress Project
Columbia Gas Transmission

Columbia Gas Transmission
ERM

Exhibit L

P-17-VI/09-2018



- Milepost
- Proposed Centerline
- HQ Waters
- Non-HQ Waters
- ▭ Permanent Workspace
- ▭ Temporary Workspace
- ▭ Additional Temporary Workspace
- ▭ Access Road

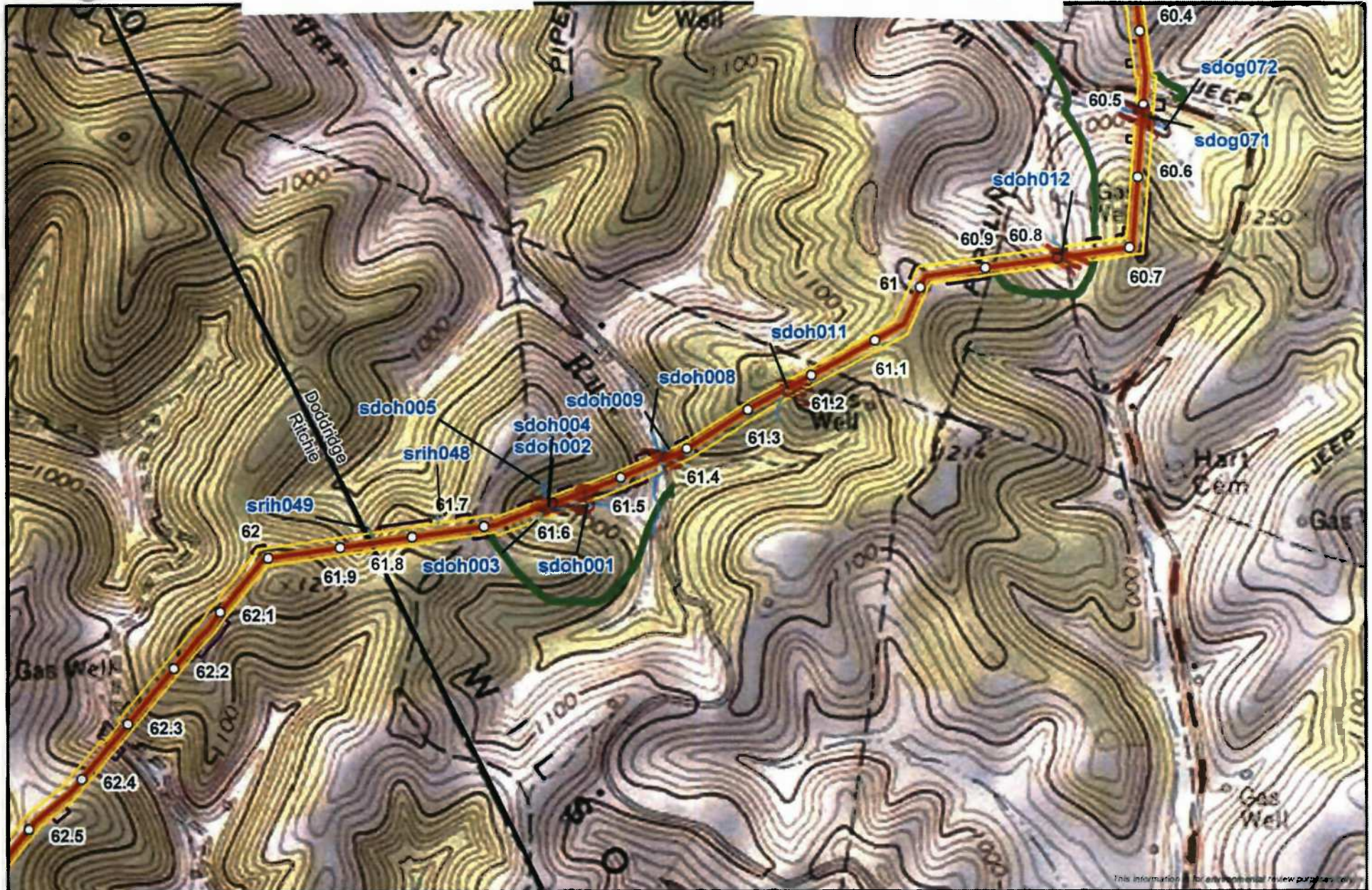


Figure 4B
 Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

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Columbia Gas Transmission

ERM



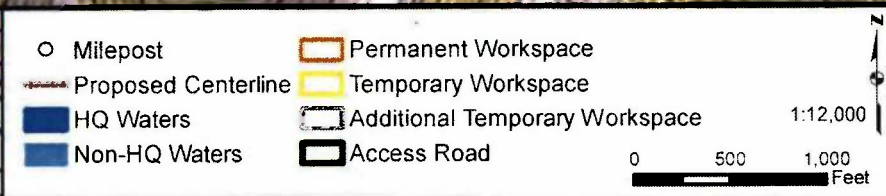
- Milepost
- Proposed Centerline
- Non-HQ Waters
- Permanent Workspace
- Temporary Workspace
- Additional Temporary Workspace
- Access Road



Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

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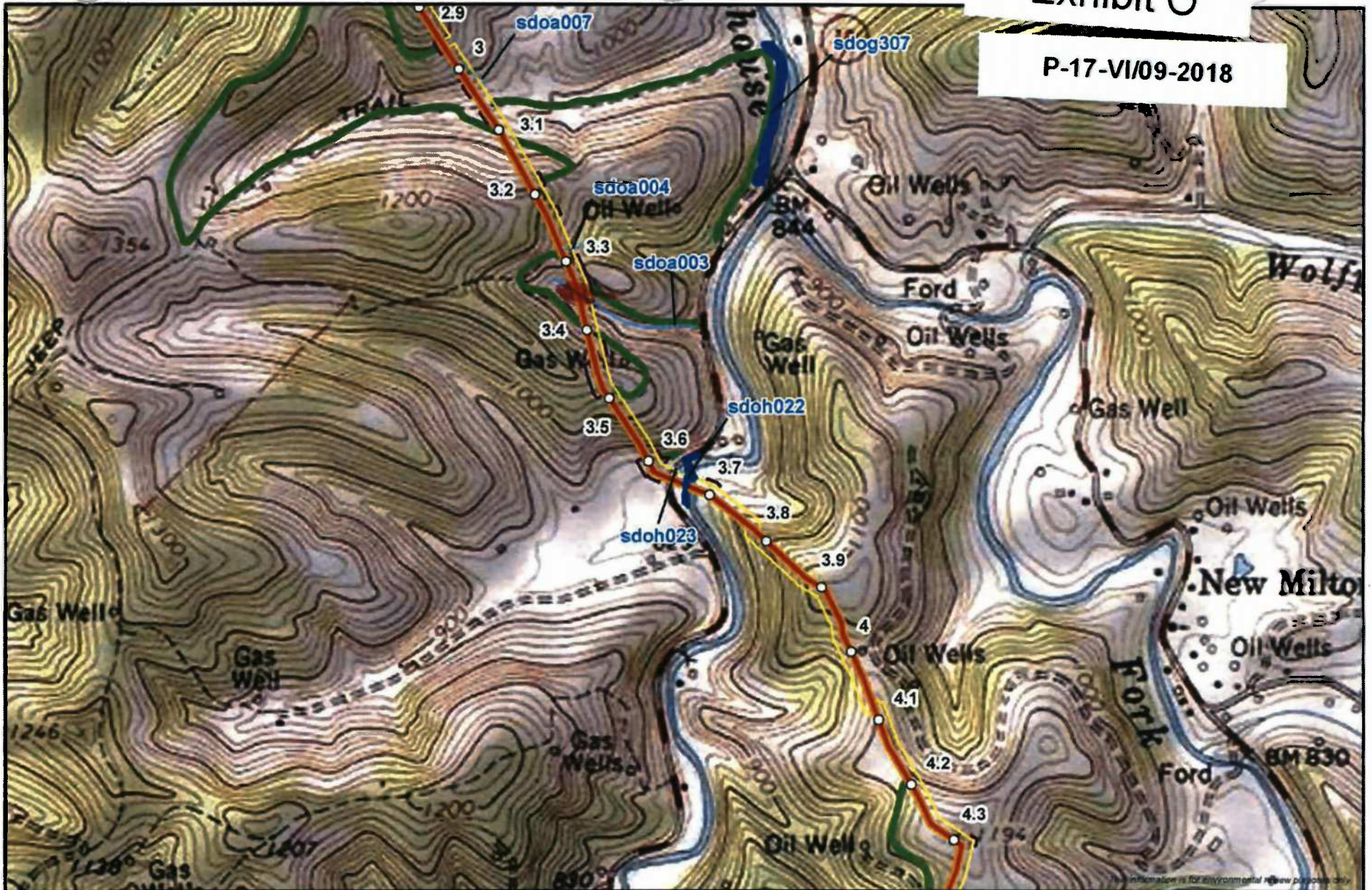
ERM



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Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
 Doddridge County, WV
 Mountaineer XPress Project
 Columbia Gas Transmission

ERM



○ Milepost	Permanent Workspace	1:12,000
— Proposed Centerline	Temporary Workspace	
■ HQ Waters	Additional Temporary Workspace	0 500 1,000 Feet
■ Non-HQ Waters	Access Road	

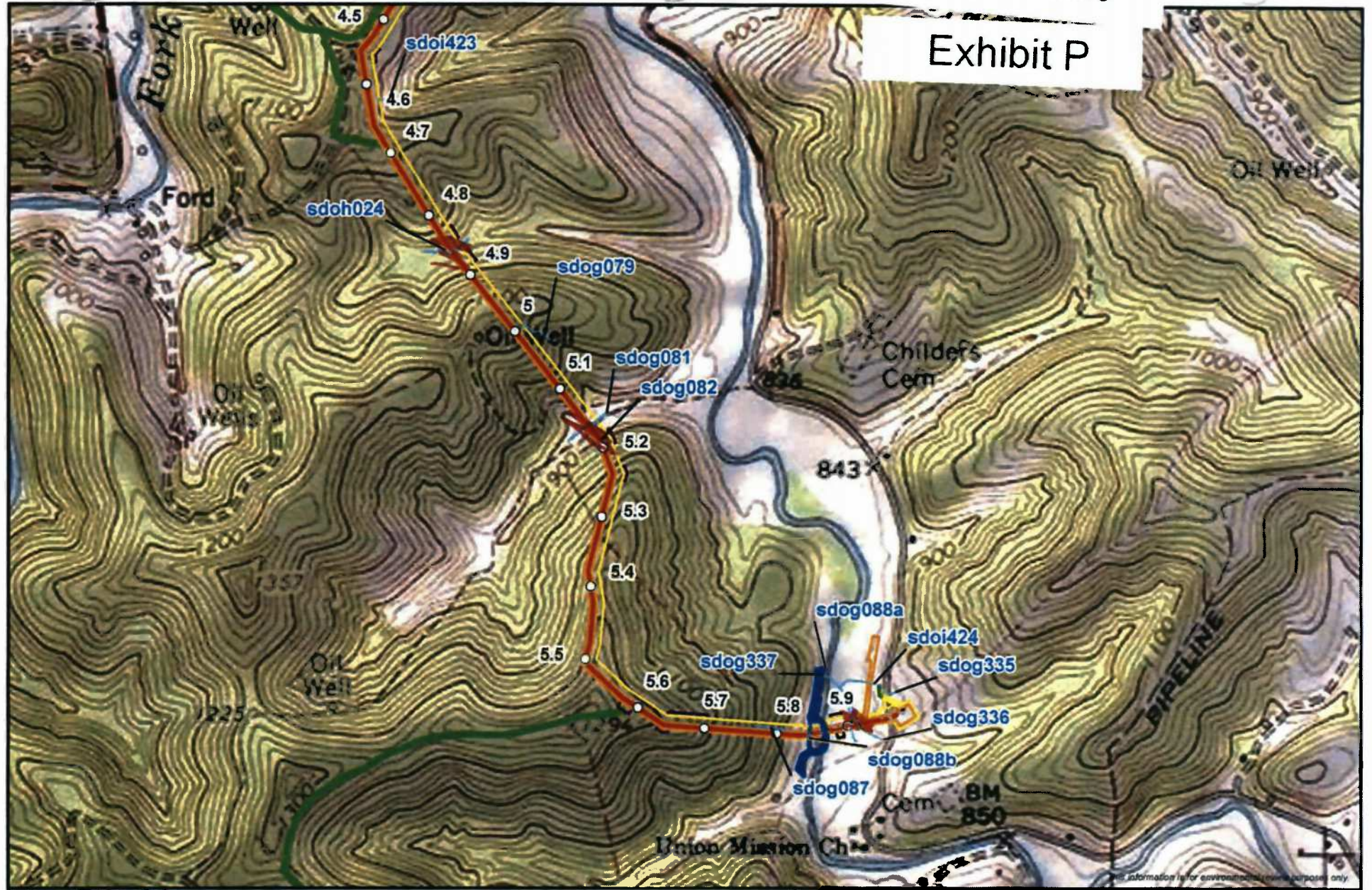
Figure 4B
 Waterbodies in the Pipeline Right-of-Way and Other Workspaces
 Topographic Map
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Exhibit P



○ Milepost	Permanent Workspace
— Proposed Centerline	Temporary Workspace
■ HQ Waters	Additional Temporary Workspace
■ Non-HQ Waters	Access Road

1:12,000

0 500 1,000
Feet

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Figure 4B
Waterbodies in the Pipeline Right-of-Way and Other Workspaces
Topographic Map
Doddridge County, WV
Mountaineer XPress Project
Columbia Gas Transmission

Fish Spawning Season Waiver Determinations

County/ Route/ Milepost	Unique ID	Waterbody Name	Flow Regime	State Water Quality Classification / Water Use Category ^b	Hydrologic Unit Code (HUC8)	Nearest City/ Town	Located In Floodplain (Yes/No)	Pipeline Diameter	Affected Bank Length (feet) ^c	Crossing Method ^d	Latitude	Longitude	Anticipated Date of impact	WVDNR Approval/ Denial
Doddridge														
MXP - 100														
38.5	sdoi011	McElroy Creek	Perennial	B1/HQW	05030201	Smithburg	Yes	36-inch	149	Dry	39.404290	-80.679273	March 2018- June 2018	Deny
43.9	sdog369	Flint Run	Perennial	B1/HQW	05030201	Smithburg	Yes	36-inch	137	Dry	39.341965	-80.694810	March 2018- June 2018	Deny
48.5	sdoc020	Buckeye Creek	Perennial	B1/HQW	05030201	Smithburg	Yes	36-inch	101	Dry	39.285924	-80.710130	March 2018- June 2018	Deny
50.4	sdo026	Meathouse Fork	Perennial	B1/HQW	05030201	Smithburg	Yes	36-inch	140	Dry	39.269184	-80.728374	March 2018- June 2018	Deny
53.8	sdog537	Bluestone Creek	Perennial	B1/HQW	05030201	Smithburg	Yes	36-inch	154	Dry	39.245443	-80.757988	March 2018- June 2018	Deny
59.6	sdog014	South Fork Hughes River	Perennial	B1/HQW	05030203	Pullman	Yes	36-inch	125	Dry	39.202326	-80.830494	March 2018- June 2018	Deny
MXP - 200														
1.1	sdog002	Meathouse Fork	Perennial	B1/HQW	05030201	Smithburg	Yes	24-inch	153	Dry	39.260671	-80.724280	March 2018- June 2018	Deny
3.7	sdo022	Toms Fork	Perennial	B1/HQW	05030201	New Milton	Yes	24-inch	107	Dry	39.234703	-80.696040	March 2018- June 2018	Deny
5.8	sdog088b *	Meathouse Fork - Back Channel	Ephemeral	B1/HQW	05030201	New Milton	Yes	24-inch	78	Open Cut/Wet Trench	39.210904	-80.679636	March 2018- June 2018	Deny
5.9	sdog088a	Meathouse Fork	Perennial	B1/HQW	05030201	New Milton	Yes	24-inch	75	Dry	39.210962	-80.679256	March 2018- June 2018	Deny

Fish Spawning Season Waiver Determinations

County/Waterpost	Unique ID	Waterbody Name	Flow Regime	State Water Quality Classification / Water Use Category ^b	Hydrologic Unit Code (HUC8)	Nearest City/Town	Located In Floodplain (Yes/No)	Crossing Method	Culvert Length (Feet)	Culvert Diameter	Latitude	Longitude	Anticipated Date of Impact	WVDNR Approval/Denial
Doddridge														
43.8	sd09368	Fork Run	Perennial	B1/HQW	05030201	Smithburg	Yes	Culvert	32	36 inch	39.34171537	-80.69424034	March 2018- June 2018	Deny
53.8	sd09537	Bluestone Creek	Perennial	B1/HQW	05030201	Smithburg	Yes	Culvert	35	36 inch	39.24340763	-80.75817068	March 2018- June 2018	Deny
53.8	sd09537	Bluestone Creek	Perennial	B1/HQW	05030201	Smithburg	Yes	Culvert	31	36 inch	39.2428157	-80.75846667	March 2018- June 2018	Deny
59.6	sd09014	South Fork Hughes River	Perennial	B1/HQW	05030203	Pulman	Yes	Culvert	72	36 inch	39.20269541	-80.83119377	March 2018- June 2018	Deny

Fish Spawning Season Waiver Determinations

County/ Route/ Milepost	Unique ID	Waterbody Name	Flow Regime	State Water Quality Classification / Water Use Category ^b	Hydrologic Unit Code (HUC8)	Nearest City/ Town	Located in Floodplain (Yes/No)	Pipeline Diameter	Affected Bank Length (feet) ^c	Crossing Method ^d	Latitude	Longitude	Anticipated Date of impact	WVDNR Approval/ Denial	
DODDRIDGE															
MXP-100															
	37	sdoh018	Elklick Run	Perennial	B1	05030201	Jacksonburg	No	36-inch	165	Open Cut/Wet Trench	39.42332949	-80.68330234	March 2018- June 2018	Approve
	38.8	sdoi008	UNT to McElroy Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	36-inch	134	Open Cut/Wet Trench	39.40031529	-80.68140488	March 2018- June 2018	Approve
	39.4	sdoc013	Riggins Run	Intermittent	B1	05030201	Smithburg	Yes	36-inch	128	Open Cut/Wet Trench	39.39524317	-80.6870865	March 2018- June 2018	Approve
	45	sdog527	UNT to Israel Fork	Intermittent	UNT to B1	05030201	Smithburg	No	36-inch	138	Open Cut/Wet Trench	39.32782081	-80.69561574	March 2018- June 2018	Approve
	45.9	sdog418	UNT Wolfpen Run	Intermittent	UNT to B1	05030201	Smithburg	No	36-inch	113	Open Cut/Wet Trench	39.3166272	-80.69610839	March 2018- June 2018	Approve
	45.9	sdog417	UNT Wolfpen Run	Intermittent	UNT to B1	05030201	Smithburg	No	36-inch	139	Open Cut/Wet Trench	39.31588942	-80.69612024	March 2018- June 2018	Approve
	46.2	sdog413	UNT Wolfpen Run	Intermittent	UNT to B1	05030201	Smithburg	No	36-inch	130	Open Cut/Wet Trench	39.31309282	-80.69595533	March 2018- June 2018	Approve
	48.4	sdog342	UNT to Buckeye Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	36-inch	158	Open Cut/Wet Trench	39.28748641	-80.71003391	March 2018- June 2018	Approve
	48.4	sdog342_a	UNT to Buckeye Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	36-inch	155	Open Cut/Wet Trench	39.28746197	-80.71005008	March 2018- June 2018	Approve
	52.2	sdog048	UNT to Georgescamp Run	Intermittent	UNT to B1	05030201	Smithburg	No	36-inch	131	Open Cut/Wet Trench	39.25479022	-80.73527278	March 2018- June 2018	Approve
	52.5	sdog043	UNT to Georgescamp Run	Intermittent	UNT to B1	05030201	Smithburg	No	36-inch	133	Open Cut/Wet Trench	39.2518026	-80.73955495	March 2018- June 2018	Approve
	54.3	sdog541	UNT to Bluestone Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	36-inch	77	Open Cut/Wet Trench	39.24064561	-80.76483283	March 2018- June 2018	Approve
	54.4	sdoi203	UNT to Bluestone Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	Yes	36-inch	134	Open Cut/Wet Trench	39.23884903	-80.76538003	March 2018- June 2018	Approve
	56.2	sdog040	UNT to Left Fork Arnold Creek	Intermittent	UNT to B1	05030201	West Union	No	36-inch	113	Open Cut/Wet Trench	39.22162603	-80.78269493	March 2018- June 2018	Approve
	56.8	sdoc302	Left Fork Arnold Creek	Intermittent	B1	05030201	West Union	No	36-inch	134	Open Cut/Wet Trench	39.21633614	-80.7908215	March 2018- June 2018	Approve
	60.5	sdog072	Taylor Drain	Intermittent	B1	05030203	Pullman	No	36-inch	111	Open Cut/Wet Trench	39.19215111	-80.83741376	March 2018- June 2018	Approve
	61.4	sdoh008	Sugar Run	Intermittent	B1	05030203	Pullman	No	36-inch	155	Open Cut/Wet Trench	39.18534755	-80.84985759	March 2018- June 2018	Approve
MXP-200															
	1.2	sdog396	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	24-inch	124	Open Cut/Wet Trench	39.26020878	-80.72360128	March 2018- June 2018	Approve
	1.5	sdog075	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	24-inch	137	Open Cut/Wet Trench	39.2567507	-80.71978163	March 2018- June 2018	Approve
	5.2	sdog081	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	24-inch	104	Open Cut/Wet Trench	39.21705172	-80.68529653	March 2018- June 2018	Approve
	5.9	sdog337	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	Yes	24-inch	76	Open Cut/Wet Trench	39.21107826	-80.67854191	March 2018- June 2018	Approve
	5.9	sdog336	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	Yes	24-inch	76	Open Cut/Wet Trench	39.21110239	-80.67839339	March 2018- June 2018	Approve

Fish Spawning Season Waiver Determinations

County/ Milepost	Unique ID	Waterbody Name	Flow Regime	State Water Quality Classification / Water Use Category ^b	Hydrologic Unit Code (HUC8)	Nearest City/Town	Located In Floodplain (Yes/No)	Crossing Method	Culvert Length (Feet)	Culvert Diameter	Latitude	Longitude	Anticipated Date of Impact	WVDNR Approval/ Denial
Doddridge														
MXP - 100														
36.3	sdog523	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	31	16 inch	39.42752573	-80.67572426	March 2018- June 2018	Approve
37.0	sdog515	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	36	16 inch	39.42696767	-80.6783273	March 2018- June 2018	Approve
37.0	sdog516	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	22	16 inch	39.42651201	-80.6787119	March 2018- June 2018	Approve
37.0	sdog516	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	15	16 inch	39.42648965	-80.67867806	March 2018- June 2018	Approve
37.0	sdog517	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	27	16 inch	39.42590093	-80.67941023	March 2018- June 2018	Approve
37.0	sdog517	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	12	16 inch	39.42588263	-80.67937124	March 2018- June 2018	Approve
37.0	sdog521	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	31	16 inch	39.42601642	-80.67837139	March 2018- June 2018	Approve
37.0	sdog375	UNT to Elklick Run	Intermittent	UNT to B1	05030201	Jacksonburg	No	Culvert	31	24 inch	39.42224454	-80.68632043	March 2018- June 2018	Approve
37.0	sdog518	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	31	16 inch	39.42620895	-80.67764414	March 2018- June 2018	Approve
37.0	sdog522	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	12	16 inch	39.42697306	-80.67560661	March 2018- June 2018	Approve
37.0	sdog522	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	23	16 inch	39.42698093	-80.67557163	March 2018- June 2018	Approve
37.0	sdog519	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	31	16 inch	39.4263495	-80.67686868	March 2018- June 2018	Approve
37.1	sdog520	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	30	16 inch	39.42628063	-80.67556011	March 2018- June 2018	Approve
37.5	sdoi429	UNT to Elklick Run	Ephemeral	UNT to B1	05030201	Jacksonburg	No	Culvert	38	16 inch	39.41802854	-80.6872239	March 2018- June 2018	Approve
38.3	sdog377	UNT to McElroy Creek	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	98	16 inch	39.40635952	-80.68070609	March 2018- June 2018	Approve
38.4	sdoi014	UNT to McElroy Creek	Ephemeral	B1	05030201	Smithburg	Yes	Culvert	142	16 inch	39.40590629	-80.68103643	March 2018- June 2018	Approve
40.2	sdog514	UNT to Ralphs Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	35	24 inch	39.38155848	-80.69461658	March 2018- June 2018	Approve
42.3	sdog317	UNT to Neds Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	19	16 inch	39.35996508	-80.69058608	March 2018- June 2018	Approve
42.3	sdog318	UNT to Neds Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	18	16 inch	39.35972663	-80.69060529	March 2018- June 2018	Approve
42.3	sdog319	UNT to Neds Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	21	16 inch	39.35880757	-80.68984604	March 2018- June 2018	Approve
42.4	sdog321	UNT to Neds Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	17	16 inch	39.35833066	-80.68984395	March 2018- June 2018	Approve
42.6	sdog327	UNT to Neds Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	23	24 inch	39.35644922	-80.68959374	March 2018- June 2018	Approve
42.6	sdog328	UNT to Neds Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	17	16 inch	39.35581831	-80.68936981	March 2018- June 2018	Approve
42.6	sdog329	UNT to Neds Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	18	16 inch	39.35521985	-80.68915319	March 2018- June 2018	Approve
42.6	sdog330	UNT to Neds Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	17	16 inch	39.35504357	-80.6890643	March 2018- June 2018	Approve
43.0	sdog353	UNT to Neds Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	53	16 inch	39.35236974	-80.69502389	March 2018- June 2018	Approve
43.9	sdog370	UNT to Flint Run	Ephemeral	UNT to B1/HQW	05030201	Smithburg	Yes	Culvert	31	16 inch	39.34150443	-80.69433458	March 2018- June 2018	Approve
44.1	sdog373	UNT to Flint Run	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	190	16 inch	39.33874171	-80.69341276	March 2018- June 2018	Approve
44.2	sdog535	UNT to Flint Run	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	31	16 inch	39.33729105	-80.69651407	March 2018- June 2018	Approve
44.3	sdog534	UNT to Flint Run	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	31	16 inch	39.33671492	-80.69659155	March 2018- June 2018	Approve
44.4	sdog533	UNT to Flint Run	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	32	16 inch	39.33659863	-80.69649411	March 2018- June 2018	Approve
44.4	sdog531	UNT to Flint Run	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	20	16 inch	39.33553814	-80.69671334	March 2018- June 2018	Approve
45.8	sdog406	UNT to Israel Fork	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	47	16 inch	39.31613706	-80.70735333	March 2018- June 2018	Approve
45.8	sdog501	UNT to Israel Fork	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	31	16 inch	39.31629348	-80.70705173	March 2018- June 2018	Approve
45.9	sdog419	UNT Wolfpen Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	32	24 inch	39.31676341	-80.6962895	March 2018- June 2018	Approve
45.9	sdoo328	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	115	16 inch	39.31657375	-80.69863207	March 2018- June 2018	Approve
46.2	sdog414	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	36	16 inch	39.31329364	-80.69670984	March 2018- June 2018	Approve
46.2	sdog505	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	8	16 inch	39.31310652	-80.69723821	March 2018- June 2018	Approve
46.2	sdog413	UNT Wolfpen Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	65	24 inch	39.3129976	-80.69760632	March 2018- June 2018	Approve
46.2	sdog510	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	20	16 inch	39.31294929	-80.69774613	March 2018- June 2018	Approve
46.2	sdog509	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	41	16 inch	39.31293465	-80.69772396	March 2018- June 2018	Approve
46.2	sdog510	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	45	16 inch	39.31282797	-80.69789468	March 2018- June 2018	Approve
46.2	sdog407	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	19	16 inch	39.3126837	-80.70114641	March 2018- June 2018	Approve
46.2	sdog407	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	31	16 inch	39.3125435	-80.70102514	March 2018- June 2018	Approve
46.2	sdog511	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	38	16 inch	39.31228894	-80.69900314	March 2018- June 2018	Approve
46.2	sdog511	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	302	16 inch	39.31200663	-80.69941402	March 2018- June 2018	Approve
46.3	sdog408	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	34	16 inch	39.31193319	-80.70020328	March 2018- June 2018	Approve
46.3	sdog408	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	14	16 inch	39.31180276	-80.70052104	March 2018- June 2018	Approve
46.3	sdog409	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	17	16 inch	39.311551	-80.6996525	March 2018- June 2018	Approve
46.3	sdog410	UNT Wolfpen Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	10	16 inch	39.31150681	-80.69827446	March 2018- June 2018	Approve
47.0	sdoo323	UNT to Englands Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	13	16 inch	39.30112232	-80.6965282	March 2018- June 2018	Approve
47.3	sdoo319	UNT to Englands Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	18	16 inch	39.30071561	-80.69855141	March 2018- June 2018	Approve
47.3	sdoo316	UNT to Englands Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	37	24 inch	39.30073092	-80.69909762	March 2018- June 2018	Approve
47.3	sdoo318	UNT to Englands Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	45	16 inch	39.30066986	-80.69933334	March 2018- June 2018	Approve

Fish Spawning Season Waiver Determinations

47.6	sdog383	UNT to Morgans Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	31	16 inch	39.29068568	-80.6935689	March 2018- June 2018	Approve
47.6	sdog386	UNT to Morgans Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	15	24 inch	39.29005432	-80.69318382	March 2018- June 2018	Approve
47.6	sdog385	UNT to Morgans Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	35	16 inch	39.29010008	-80.69325887	March 2018- June 2018	Approve
47.7	sdog386	UNT to Morgans Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	26	24 inch	39.28929365	-80.6926314	March 2018- June 2018	Approve
47.7	sdog380	UNT to Morgans Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	38	16 inch	39.29104285	-80.69567148	March 2018- June 2018	Approve
47.7	sdog386	UNT to Morgans Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	20	24 inch	39.2884599	-80.69260748	March 2018- June 2018	Approve
47.7	sdog386	UNT to Morgans Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	39	24 inch	39.28742837	-80.69231824	March 2018- June 2018	Approve
47.7	sdog387	UNT to Morgans Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	163	16 inch	39.28714735	-80.68952876	March 2018- June 2018	Approve
47.7	sdog389	Morgans Run	Perennial	B1	05030201	Smithburg	Yes	Culvert	26	36 inch	39.28659887	-80.68933959	March 2018- June 2018	Approve
48.3	sdog346	UNT to Buckeye Creek	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	17	16 inch	39.28763439	-80.70798565	March 2018- June 2018	Approve
48.3	sdog344	Englands Run	Perennial	B1	05030201	Smithburg	Yes	Culvert	32	36 inch	39.28820954	-80.71387865	March 2018- June 2018	Approve
48.3	sdog344	UNT to Buckeye Creek	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	21	16 inch	39.28790464	-80.71090286	March 2018- June 2018	Approve
48.3	sdog342	UNT to Buckeye Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	Culvert	34	24 inch	39.28774138	-80.70922224	March 2018- June 2018	Approve
48.3	sdog342	UNT to Buckeye Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	Culvert	87	24 inch	39.28795458	-80.71245489	March 2018- June 2018	Approve
48.4	sdog342	UNT to Buckeye Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	Culvert	24	24 inch	39.28793429	-80.71285519	March 2018- June 2018	Approve
49.0	sdoi418	UNT to Douglascamp Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	31	24 inch	39.2714014	-80.70703892	March 2018- June 2018	Approve
49.0	sdoi422	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	306	16 inch	39.27729873	-80.71068858	March 2018- June 2018	Approve
49.0	sdoi422	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	82	16 inch	39.27668009	-80.71089322	March 2018- June 2018	Approve
49.0	sdoi422	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	23	16 inch	39.27646151	-80.71104865	March 2018- June 2018	Approve
49.1	sdoi422	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	32	16 inch	39.27631121	-80.71121179	March 2018- June 2018	Approve
49.4	sdoi417	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	31	16 inch	39.27083919	-80.70853642	March 2018- June 2018	Approve
49.4	sdoi420	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	68	16 inch	39.27083203	-80.70841974	March 2018- June 2018	Approve
49.6	sdoi402	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	12	16 inch	39.27035246	-80.71292272	March 2018- June 2018	Approve
49.6	sdoi402	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	17	16 inch	39.27025577	-80.71301681	March 2018- June 2018	Approve
49.6	sdoi402	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	122	16 inch	39.27044963	-80.7125645	March 2018- June 2018	Approve
49.6	sdoi403	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	55	16 inch	39.27076964	-80.70884533	March 2018- June 2018	Approve
49.6	sdoi403	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	57	16 inch	39.27057706	-80.71168338	March 2018- June 2018	Approve
49.6	sdoi403	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	129	16 inch	39.27076776	-80.70955634	March 2018- June 2018	Approve
49.6	sdoi403	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	152	16 inch	39.27064574	-80.71068663	March 2018- June 2018	Approve
49.6	sdoi403	UNT to Douglascamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	156	16 inch	39.27059752	-80.71124786	March 2018- June 2018	Approve
50.3	sdog350	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	Smithburg	Yes	Culvert	25	24 inch	39.2693478	-80.72821142	March 2018- June 2018	Approve
50.5	sdoh027 *	UNT to Meathouse Fork	Ephemeral	UNT B1/HQW	05030201	Smithburg	No	Culvert	74	16 inch	39.2686211	-80.73394259	March 2018- June 2018	Approve
51.8	sdog073	Georgescamp Run	Intermittent	B1	05030201	Smithburg	No	Culvert	46	24 inch	39.2558971	-80.72592944	March 2018- June 2018	Approve
51.8	sdoo857	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	8	16 inch	39.25591344	-80.72596387	March 2018- June 2018	Approve
51.8	sdoo855	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	33	16 inch	39.25525054	-80.72677524	March 2018- June 2018	Approve
51.8	sdoo853	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	34	16 inch	39.25503109	-80.7274826	March 2018- June 2018	Approve
51.8	sdog073	Georgescamp Run	Intermittent	B1	05030201	Smithburg	No	Culvert	40	24 inch	39.25436511	-80.72859986	March 2018- June 2018	Approve
51.9	sdon810	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	9	16 inch	39.25933156	-80.73082004	March 2018- June 2018	Approve
52.1	sdoo851	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	12	16 inch	39.25334231	-80.7302715	March 2018- June 2018	Approve
52.1	sdoo850	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	21	16 inch	39.25323563	-80.73070171	March 2018- June 2018	Approve
52.2	sdoo848	UNT Georgescamp Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	31	24 inch	39.25230223	-80.73278563	March 2018- June 2018	Approve
52.3	sdog073	Georgescamp Run	Intermittent	B1	05030201	Smithburg	No	Culvert	49	24 inch	39.25149964	-80.73299899	March 2018- June 2018	Approve
52.3	sdoo847	UNT Georgescamp Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	31	24 inch	39.25075952	-80.73355737	March 2018- June 2018	Approve
52.4	sdog073	Georgescamp Run	Intermittent	B1	05030201	Smithburg	No	Culvert	21	24 inch	39.25039452	-80.73401501	March 2018- June 2018	Approve
52.4	sdoo846	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	33	16 inch	39.25004933	-80.73437571	March 2018- June 2018	Approve
52.4	sdoo845	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	97	16 inch	39.24982646	-80.73487583	March 2018- June 2018	Approve
52.5	sdoo844	UNT Georgescamp Run	Intermittent	UNT to B1	05030201	Smithburg	No	Culvert	22	24 inch	39.24977051	-80.73631123	March 2018- June 2018	Approve
52.5	sdog073	Georgescamp Run	Intermittent	B1	05030201	Smithburg	No	Culvert	30	24 inch	39.24974252	-80.73628783	March 2018- June 2018	Approve
52.6	sdoo826	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	36	16 inch	39.24893789	-80.73856309	March 2018- June 2018	Approve
52.7	sdoo824	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	31	16 inch	39.24811194	-80.74072787	March 2018- June 2018	Approve
52.7	sdoo825	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	31	16 inch	39.24844033	-80.7394388	March 2018- June 2018	Approve
52.9	sdog073	Georgescamp Run	Intermittent	B1	05030201	Smithburg	No	Culvert	33	24 inch	39.2468873	-80.74229143	March 2018- June 2018	Approve
52.9	sdoo828	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	23	16 inch	39.24593094	-80.74433384	March 2018- June 2018	Approve
52.9	sdoo829	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	14	16 inch	39.24592048	-80.74438195	March 2018- June 2018	Approve
53.2	sdoo830	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	7	16 inch	39.24578228	-80.74468779	March 2018- June 2018	Approve
53.2	sdoo831	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	21	16 inch	39.24553244	-80.74514558	March 2018- June 2018	Approve
53.2	sdoo832	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	13	16 inch	39.24557261	-80.74496534	March 2018- June 2018	Approve
53.2	sdoo833	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	32	16 inch	39.24459828	-80.74603867	March 2018- June 2018	Approve
53.2	sdoo834	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	15	16 inch	39.24455363	-80.746134	March 2018- June 2018	Approve

Fish Spawning Season Waiver Determinations

53.3	sdoe836	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	31	16 inch	39.24402982	-80.74687273	March 2018- June 2018	Approve	
53.3	sdoe837	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	8	16 inch	39.24337804	-80.74738586	March 2018- June 2018	Approve	
53.3	sdoe838	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	33	16 inch	39.24290809	-80.74752502	March 2018- June 2018	Approve	
53.3	sdoe840	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	12	16 inch	39.24256156	-80.74836767	March 2018- June 2018	Approve	
53.3	sdoe841	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	12	16 inch	39.24295572	-80.74895243	March 2018- June 2018	Approve	
53.3	sdoe842	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	38	16 inch	39.24348781	-80.74929674	March 2018- June 2018	Approve	
53.3	sdoe843	UNT Georgescamp Run	Ephemeral	UNT to B1	05030201	Smithburg	No	Culvert	8	16 inch	39.24349805	-80.74924425	March 2018- June 2018	Approve	
53.8	sdog538	UNT to Bluestone Creek	Ephemeral	UNT to B1/HQW	05030201	Smithburg	Yes	Culvert	33	16 inch	39.24462408	-80.75828661	March 2018- June 2018	Approve	
53.9	sdog211	UNT to Bluestone Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	Yes	Culvert	38	24 inch	39.24295706	-80.75832676	March 2018- June 2018	Approve	
54.2	sdog539	UNT to Bluestone Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	Yes	Culvert	33	24 inch	39.24144699	-80.76248159	March 2018- June 2018	Approve	
54.2	sdog539	UNT to Bluestone Creek	Intermittent	UNT to B1/HQW	05030201	Smithburg	No	Culvert	32	24 inch	39.24266317	-80.76420908	March 2018- June 2018	Approve	
54.3	sdog201	UNT to Bluestone Creek	Ephemeral	UNT to B1/HQW	05030201	Smithburg	No	Culvert	18	16 inch	39.24042365	-80.7643501	March 2018- June 2018	Approve	
56.1	sdoe310	UNT to Left Fork Arnold Creek	Ephemeral	UNT to B1	05030201	West Union	No	Culvert	51	16 inch	39.22367083	-80.78212187	March 2018- June 2018	Approve	
56.1	sdoe308	UNT to Left Fork Arnold Creek	Ephemeral	UNT to B1	05030201	West Union	No	Culvert	27	16 inch	39.22370079	-80.7824714	March 2018- June 2018	Approve	
56.1	sdoe309	UNT to Left Fork Arnold Creek	Ephemeral	UNT to B1	05030201	West Union	No	Culvert	12	16 inch	39.2236559	-80.78262174	March 2018- June 2018	Approve	
56.2	sdoe308	UNT to Left Fork Arnold Creek	Ephemeral	UNT to B1	05030201	West Union	No	Culvert	51	16 inch	39.2238927	-80.78353706	March 2018- June 2018	Approve	
56.2	sdoe308	UNT to Left Fork Arnold Creek	Ephemeral	UNT to B1	05030201	West Union	No	Culvert	171	16 inch	39.22382909	-80.78302396	March 2018- June 2018	Approve	
56.2	sdoe313	Left Fork Arnold Creek	Intermittent	B1	05030201	West Union	No	Culvert	33	24 inch	39.23026199	-80.79157476	March 2018- June 2018	Approve	
56.3	sdoe307	UNT to Left Fork Arnold Creek	Intermittent	UNT to B1	05030201	West Union	No	Culvert	32	24 inch	39.22327405	-80.78610054	March 2018- June 2018	Approve	
56.3	sdoe312	UNT to Left Fork Arnold Creek	Intermittent	UNT to B1	05030201	West Union	No	Culvert	31	24 inch	39.22633336	-80.78975641	March 2018- June 2018	Approve	
57.1	sdoi311	UNT to Big Run	Ephemeral	UNT to B1	05030203	New Milton	No	Culvert	37	16 inch	39.20563696	-80.79082271	March 2018- June 2018	Approve	
57.1	sdoi312	UNT to Big Run	Intermittent	UNT to B1	05030203	New Milton	No	Culvert	31	24 inch	39.20719435	-80.79107816	March 2018- June 2018	Approve	
59.6	sdoi323	UNT to South Fork Hughes River	Intermittent	UNT to B1/HQW	05030203	Pullman	Yes	Culvert	240	24 inch	39.20119698	-80.82905336	March 2018- June 2018	Approve	
60.4	sdoi304	UNT to Taylor Drain	Ephemeral	UNT to B1	05030203	Pullman	No	Culvert	35	16 inch	39.19339806	-80.84000403	March 2018- June 2018	Approve	
60.5	sdoi306	UNT to Taylor Drain	Intermittent	UNT to B1	05030203	Pullman	No	Culvert	33	24 inch	39.19223168	-80.83947983	March 2018- June 2018	Approve	
60.7	sdoi307	UNT to Taylor Drain	Ephemeral	UNT to B1	05030203	Pullman	No	Culvert	56	16 inch	39.19019353	-80.83875414	March 2018- June 2018	Approve	
61.5	sdoh008	Sugar Run	Intermittent	B1	05030203	Pullman	No	Culvert	48	24 inch	39.18441677	-80.84995926	March 2018- June 2018	Approve	
61.5	sdoe814	UNT to Sugar Run	Ephemeral	UNT to B1	05030203	Pullman	No	Culvert	81	16 inch	39.18431717	-80.850069	March 2018- June 2018	Approve	
61.6	sdoe816	UNT to Sugar Run	Ephemeral	UNT to B1	05030203	Pullman	No	Culvert	31	16 inch	39.18259458	-80.85205826	March 2018- June 2018	Approve	
61.6	sdoe816	UNT to Sugar Run	Ephemeral	UNT to B1	05030203	Pullman	No	Culvert	171	16 inch	39.18260291	-80.85243914	March 2018- June 2018	Approve	
61.7	sdoe817	UNT to Sugar Run	Ephemeral	UNT to B1	05030203	Pullman	No	Culvert	55	16 inch	39.1832297	-80.85361816	March 2018- June 2018	Approve	
MXP - 200															
2.8	sdoi405	UNT to Lick Run	Ephemeral	UNT to B1	05030201	New Milton	No	Culvert	21	16 inch	39.24468167	-80.70547774	March 2018- June 2018	Approve	
3.0	sdoi408	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	8	16 inch	39.24063324	-80.7074014	March 2018- June 2018	Approve	
3.0	sdoi406	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	37	16 inch	39.24063322	-80.7073236	March 2018- June 2018	Approve	
3.0	sdoi410	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	38	24 inch	39.24195402	-80.70414122	March 2018- June 2018	Approve	
3.0	sdoi410	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	19	24 inch	39.24202504	-80.70397153	March 2018- June 2018	Approve	
3.0	sdoi410	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	54	24 inch	39.24204576	-80.70349642	March 2018- June 2018	Approve	
3.0	sdoi410	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	79	24 inch	39.24202769	-80.70310591	March 2018- June 2018	Approve	
3.0	sdoi410	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	248	24 inch	39.24205444	-80.70242938	March 2018- June 2018	Approve	
3.1	sdog310	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	124	24 inch	39.24212761	-80.70121091	March 2018- June 2018	Approve	
3.1	sdog311	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	105	24 inch	39.24223112	-80.7005683	March 2018- June 2018	Approve	
3.1	sdog310	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	77	24 inch	39.24217518	-80.70061524	March 2018- June 2018	Approve	
3.1	sdog311	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	106	24 inch	39.24210087	-80.69963878	March 2018- June 2018	Approve	
3.1	sdog310	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	92	24 inch	39.242105	-80.6993257	March 2018- June 2018	Approve	
3.1	sdog312	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	12	16 inch	39.24208962	-80.69930188	March 2018- June 2018	Approve	
3.1	sdog313	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	16	16 inch	39.24209622	-80.69924039	March 2018- June 2018	Approve	
3.1	sdog310_at	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	189	16 inch	39.2421712	-80.69889828	March 2018- June 2018	Approve	
3.1	sdog310	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	75	24 inch	39.2422037	-80.69858055	March 2018- June 2018	Approve	
3.1	sdog310_at	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	255	16 inch	39.24224547	-80.69813053	March 2018- June 2018	Approve	
3.1	sdog314	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	19	16 inch	39.24235258	-80.69765569	March 2018- June 2018	Approve	
3.1	sdog315	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	17	16 inch	39.24238469	-80.69754565	March 2018- June 2018	Approve	
3.1	sdog310	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	208	24 inch	39.24238944	-80.69746909	March 2018- June 2018	Approve	
3.2	sdog310	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	45	24 inch	39.24253138	-80.6969407	March 2018- June 2018	Approve	
3.2	sdog310_at	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	632	16 inch	39.24265597	-80.69618382	March 2018- June 2018	Approve	
3.2	sdog310	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	232	24 inch	39.24271768	-80.6959884	March 2018- June 2018	Approve	
3.2	sdog310	UNT to Meathouse Fork	Intermittent	UNT to B1/HQW	05030201	New Milton	No	Culvert	29	24 inch	39.2429289	-80.69529927	March 2018- June 2018	Approve	
3.3	sdog308	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	116	16 inch	39.24141383	-80.69414791	March 2018- June 2018	Approve	
3.3	sdoo03_ext	UNT Toms Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	61	16 inch	39.23889555	-80.70025881	March 2018- June 2018	Approve	

Fish Spawning Season Waiver Determinations

3.3	sdog306	UNT to Meathouse Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	69	16 inch	39.24064315	-80.69450347	March 2018- June 2018	Approve
3.4	sdoi416	UNT Toms Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	17	16 inch	39.23779996	-80.69610086	March 2018- June 2018	Approve
3.4	sdoa003	UNT Toms Fork	Ephemeral	UNT to B1/HQW	05030201	New Milton	No	Culvert	12	16 inch	39.23773703	-80.69580719	March 2018- June 2018	Approve

LETTER OF TRANSMITTAL

**STAHL SHEAFFER
ENGINEERING**

5000 Waterdam Plaza Drive, Ste. 120, McMurray, PA 15317
Phone: 724-960-1111 Fax: 724-960-1162

**TO: Doddridge County Office of Emergency
Services**
118 E. Court Street, Room 102
West Union, WV 26456

DATE: February 9, 2018
PROJECT: Mountaineer XPress Project
ATTENTION: George Eidel
RE: Floodplain permits for pipeline transmission facilities

WE ARE SENDING YOU:

- | | | | | |
|---|---------------------------------------|---|--|---|
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Prints | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Copy of Letter | <input type="checkbox"/> Change Order | <input checked="" type="checkbox"/> Other | <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under |

COPIES	DATE	DWG. NO.	DESCRIPTION
1	February 9, 2018		Additional permits received to date

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> For Approval | <input type="checkbox"/> Approved as Submitted | <input type="checkbox"/> Resubmit copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return corrected prints |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Other: | |

REMARKS: Dear Mr. Eidel: Attached are additional permits that have been received to date for the MXP Pipeline project. Should you have any questions or require additional information, please do not hesitate to call me at 724-960-1111 or email kgleason@sse-llc.com.

Thank you,
Karen

COPY TO: 15-238 File
doddridgecountyfpm@gmail.com

SIGNED: 
Karen M. Gleason

**Mountaineer XPress Project
Environmental Permits, Approvals, and Consultations**

Agency	Permit/Approval/Consultation	Filing Date (Anticipated)	Receipt Date (Anticipated)
Federal			
Federal Energy Regulatory Commission	Certificate of Public Convenience and Necessity under Section 7(c) of the Natural Gas Act	April 29, 2016	December 29, 2017
U.S. Army Corps of Engineers – Pittsburgh, Huntington Districts	Department of the Army Permits under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act (Joint Permit Application)	July 8, 2016	February 6, 2018
U.S. Fish and Wildlife Service – West Virginia Ecological Field Services Office	Consultation under Section 7 of the Endangered Species Act	July 2015 ^a	Technical Guidance Received December 7, 2017 ^b
State: West Virginia			
West Virginia Department of Environmental Protection- Division of Air Quality	Air Permit – Title V Permit	April 29, 2016	December 12, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Water Quality Certificate under Section 401 of the Clean Water Act	July 21, 2016	July 26, 2017
West Virginia Department of Environmental Protection – Division of Water and Waste Management	West Virginia Water Pollution Control Permit – Stormwater Associated with Oil and Gas Related Construction Activities – WV0116815	April 27, 2017	January 31, 2018
West Virginia Department of Environmental Protection – Division of Water and Waste Management	National Pollutant Discharge Elimination System – Water Pollution Control Permit for Hydrostatic Testing Water – WV0113069	January 16, 2018	(February 2018)
West Virginia Department of Environmental Protection – Division of Water and Waste Management	Large Quantity Water Use Registration ^c	NA	NA
West Virginia Division of Culture and History	Consultation under Section 106 of the National Historic Preservation Act	July 2015	December 15, 2017
West Virginia Division of Natural Resources – Natural Heritage Program	Natural Heritage/Protected Species Consultation	July 2015	Consultation does not result in a permit. The information from the WVDNR contains privileged species information and will not be provided to the County. December 2017 and January 2018 (culvert, timber mat, and some pipeline crossings)
West Virginia Division of Natural Resources – Office of Land and Streams	Stream Activity Permit (Joint Application with the Public Lands Corporation)	October 2017	(February 2018) Pending crossings.
^a To comply with the provisions of the Endangered Species Act, Columbia has evaluated and certified that the Project activities are consistent with the U.S. Fish and Wildlife Service approved NiSource/Columbia Multi-Species Habitat Conservation Plan and the resulting programmatic Section 7 consultation. ^b Although the USFWS provided concurrence with the use of the MSHCP in covered lands, and provided technical guidance that a finding of "No Effect" or "Not Likely to Adversely Affect" for protected species outside of MSHCP-covered lands would be supported if Columbia's proposed Mussel Alternative Routes are adopted by FERC. ESA closure is predicated on Columbia receiving FERC authorization of certain reroutes; which have been requested by Columbia but not yet been adopted by FERC. ^c Registration is required the year following the water appropriation; and no consultation is required prior to appropriating water.			



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, West Virginia 25304-2345
Phone: 304-926-0495
Fax: 304-926-0496

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

January 31, 2018

JASON CHAMBERS
COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVE
CHARLESTON, WV 25314

Re: General Permit Registration No. WVR310872
Mountaineer XPress Project, Marshall County, Disturbed
Acres (3648)

Dear Permittee:

Attached is a copy of your completed registration form for your activity with the above assigned registration number. You are now authorized to operate under General Permit No. WV0116815. This registration form should be kept with your copy of the General Permit. You should carefully read the contents of the permit and become familiar with all requirements needed to remain in compliance.

Although you should be aware of all the terms and conditions of this permit, we wish to advise you of the following important requirements:

1. In accordance with Section G.4 of the General Permit, you have developed a complete storm water pollution prevention plan. This plan is to be retained on site and be available for review by the Director or the Director's authorized representative as of the date of your coverage by the General Permit, which is the date of this letter.
2. The erosion control measures approved by this agency for this project shall be maintained in proper condition to individually and collectively perform the functions for which they were designed. In order to ensure the efficiency and proper maintenance of these measures, the permittee shall make sufficiently frequent, periodic inspections to detect any impairment of the designed stability, capacity or environmental requirements of the approved measures. The permittee shall take immediate steps to correct any such impairment found to exist.
3. If this Stormwater Pollution Prevention Plan (SWPPP) proves to be ineffective in controlling erosion and the sediment in storm water discharges associated with industrial/construction activities, or site conditions change, the Permittee shall amend the SWPPP and install appropriate sediment and/or control devices in accordance with Section G.4.c) of this permit and the application instructions
4. The current General Permit expires on May 13, 2018. If you wish to continue an activity regulated by this permit after the expiration date of the permit, provisions for coverage will be made during the public notice process for any new General Permit to be issued at that time.

5. Final stabilization means disturbed areas shall be covered by the appropriate permanent protection. Final stabilization includes: pavement; buildings; stable waterways (riprap, concrete, grass or pipe); a healthy, vigorous stand of perennial grass that uniformly covers at least 70 percent of the ground; stable outlet channels with velocity dissipation which directs site runoff to a natural watercourse; and any other approved structure or material.

Your annual permit fee has been assessed as \$1,500.00. You will be invoiced by this agency one month prior to the anniversary date of your original approval date. Failure to submit the annual fee within 90 days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect. Please be advised that a pro-rated annual permit fee may be assessed upon the completion date and proper stabilization.

Issuance of this approval of the General Permit registration does not authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state or local law or rules.

The validity of this General Permit Registration is contingent upon payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Your efforts toward preventing the degradation of our natural resources are greatly appreciated. If you have any questions, please contact Sharon Mullins of this Division at (304) 926-0499 extension 1132 or at sharon.a.mullins@wv.gov.

Scott G. Mandirola
Director
WV DEP-Division of Water & Waste Mgt.
601 57th St SE
Charleston, WV 25304-2345
Phone: (304) 926-0495
Fax: (304) 926-0463



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200
South Charleston WV 25303-1228
TDD (304) 558-1439
TDD 1-800-354-6087
Fax (304) 558-6048
Telephone (304) 558-3225

Jim Justice
Governor

Stephen S. McDaniel
Director

January 24, 2018
Division of Natural Resources
RIGHT OF ENTRY

Re: LS-18-VI/09-266

Columbia Gas Transmission, LLC
Eric Duncan
c/o ERM
Attention: Tim Andersen
1000 IDS Center, 80 S. Eight Street
Minneapolis, MN 55402-

Dear Mr. Duncan:

The Division of Natural Resources hereby grants to you for a period of ten (10) years from the date hereof, a Right of Entry for the purpose of installing and maintaining a timber mat crossing and/or a minimum twenty foot (20') length and minimum sixteen inch (16") diameter culvert in the streambeds (when necessary, sized not to restrict highest expected flow, and removed when construction and restoration activities are complete) at fifty-one (51) separate locations (Mountain Xpress Project) along Elklick Run, unnamed tributaries of McElroy Creek, Riggins Run, Brush Run, Neds Run, unnamed tributaries of Neds Run, an unnamed tributary of Flint Run, unnamed tributaries of Israel Fork, unnamed tributaries of Wolfpen Run, unnamed tributaries of Buckeye Creek, unnamed tributaries of Meathouse Fork, unnamed tributaries of Georgescamp Run, unnamed tributaries of Bluestone Creek, Left Fork Arnold Creek, unnamed tributaries of Left Fork Arnold Creek, Taylor Drain, an unnamed tributary of Taylor Drain, Sugar Run, unnamed tributaries of Sugar Run, Lick Run, and an unnamed tributary of Toms Fork near Jacksonburg, Smithburg, West Union, Pullman, and New Milton in Doddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

1. No in stream work during the fish-spawning season (April 1-June 30).
2. Work must be performed during low flows.
3. Any stream bed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
4. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
5. Applicant is responsible for removing debris from in and around the installation

periodically to prevent stream flow obstruction.

6. Green concrete must not be put in the stream (highly toxic to aquatic life).
7. Guidance should be obtained from NRCS (formerly SCS) and a registered engineer for the design and construction. Must allow for passage of at least ten-year flood flow.
8. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.
9. Durable head walls of logs, rock, or concrete shall be constructed at both the upstream and downstream ends of crossing to prevent erosion of fill material into the stream.
10. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State assume any liability for the applicant's/landowner's construction activities. By accepting this Right-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this activity to both upstream and downstream landowners.
11. A 404 permit may be required from the U.S. Army Corps of Engineers. You may call them at 304-529-5710 or 412-395-7155.

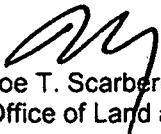
Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, 601 57th Street S.E., Charleston, West Virginia 25304-2345, Telephone No. (304) 926-0495.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

LS-18-VI/09-266
Page 3
January 24, 2018

Your payment is now due and payable in the amount of \$5100.00 to the Division of Natural Resources covering the first year's annual fee of this agreement. Your agreement will be effective upon receipt of your payment in full. You must notify this office in writing when this installation has been removed.

Sincerely,


Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
PITTSBURGH DISTRICT, CORPS OF ENGINEERS
WILLIAM S. MOORHEAD FEDERAL BUILDING
1000 LIBERTY AVENUE
PITTSBURGH, PA 15222-4186

February 6, 2018

Operations Division
Regulatory Branch
LRP 2015-1572

Erik Duncan
Columbia Gas Transmission LLC
1700 Maccorkle Avenue
Charleston, West Virginia 25314

Dear Mr. Duncan:

I refer to the Mountaineer Xpress Project, received in this office July 11, 2016, proposing to construct, modify, operate, and maintain various natural gas transmission pipeline facilities in West Virginia, referred to as the Mountaineer Xpress Project (Project or MXP). The Project will involve the construction and operation of approximately 170.1 miles of various diameter pipeline, modifications to one existing compressor station and two new compressor stations being constructed as part of other Columbia projects, construction of three new compressor stations, three new regulating stations, and other modifications at a number of aboveground facility sites, all of which occur in West Virginia.

In the Pittsburgh District, this project proposes to install approximately 15.7 miles of new 36-inch-diameter natural gas transmission pipeline, temporary staging areas, and temporary pipe yards. Additionally the Project will require modifications to the Lone Oak Compressor Station and will require construction of a new facility (MXP-100 Tie-in with LEX) and one MXP-100 valve site within the USACE Pittsburgh District. Counties crossed by Project facilities within the USACE Pittsburgh District regulatory boundaries include Marshall and Wetzel counties, West Virginia. In the Pittsburgh District, the project proposes to temporarily impact 9,018 linear feet of 101 streams and 0.16 acre of four wetlands.

Activities associated with projects of this type are authorized by Nationwide Permit (NWP) No. 12 Utility Line Activities, previously issued by the Corps of Engineers, for purposes of Section 404 of the Clean Water Act as published in the January 6, 2017 issue of the Federal Register. This project has been verified to comply with all applicable regional conditions and water quality certification conditions as published in Public Notice LRH-2016-00006-WV on May 15, 2017.

For a list of conditions which must be followed for the NWP to be valid, refer to:
<http://www.lrp.usace.army.mil/LinkClick.aspx?fileticket=N2GQpAPStQo%3d&portalid=72>

Adherence to these conditions will permit you to proceed with the proposed project. Please note, the enclosed Compliance Certification Form must be signed and returned to this office upon completion of the proposed work. In addition to the general conditions, the following special condition must be adhered to in its entirety in order for this permit to be valid:

SPECIAL CONDITION:

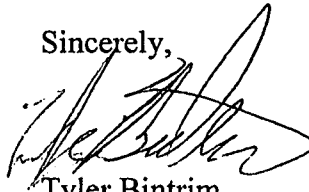
The December 7, 2017 United States Fish and Wildlife Service (USFWS) letter titled *Columbia Gas Transmission, LLC – Mountaineer Xpress Project, in Cabell, Calhoun, Doddridge, Jackson, Marshall, Kanawha, Mason, Putnam, Ritchie, Roane, Tyler, Wayne, Wetzel, and Wirt Counties, West Virginia (FWS File # 2015-I-0575) (FERC Docket No. CP16-357-000)* must be adhered to in its entirety in order for this permit to be valid. This includes adherence to Columbia Gas's Multi Species Habitat Conservation Plan.

The verification of this NWP is valid until March 18, 2022, unless the NWP's are modified, suspended, or revoked. If project specifications are changed or work has not been initiated before March 18, 2022, please contact this office for further verification.

The verification of this NWP will not relieve you of the responsibility to obtain any other required state, local, or Federal authorizations.

If you have any questions, please contact Matthew Gilbert at (412) 395-7189 or at matthew.c.gilbert@usace.army.mil. Please complete our customer survey online and provide us with feedback at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0

Sincerely,



Tyler Bintrim
Acting Chief, Southern Section
Regulatory Branch

Enclosure

Compliance Certification Form

PERMIT NO: LRP 2015-1572

NAME OF PERMITTEE: Columbia Gas Transmission LLC

DATE OF ISSUANCE: February 6, 2018

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers
Pittsburgh District
Regulatory Branch, Room 2200
William S. Moorhead Federal Building
1000 Liberty Avenue
Pittsburgh, PA 15222-4186

Please note that your permitted activity is subject to compliance inspection by a U.S. Army Corps of Engineers Representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701-2070

February 5, 2018

Regulatory Division
Energy Resource Branch
LRH-2015-736-OHR

NATIONWIDE PERMIT NO. 12 VERIFICATION

Mr. Erik Duncan
Columbia Gas Transmission, LLC
455 Racetrack Road
Washington, Pennsylvania 15301

Dear Mr. Duncan:

I refer to the Columbia Gas Transmission, LLC's request dated July 8, 2016 with the most updated application materials received on January 11, 2018 requesting a Department of the Army (DA) authorization to discharge dredged and/or fill material into waters of the United States (U.S.) in association with the Mountaineer XPress (MXP) Project. The proposed project will involve the construction of a 173.2-mile various diameter natural gas pipeline and its associated features. The MXP project pipeline will cross the U.S. Army Corps of Engineers (Corps) Huntington and Pittsburgh Districts regulatory boundaries. Within the Huntington District regulatory boundary, the MXP project is located within Wetzel, Tyler, Doddridge, Ritchie, Calhoun, Wirt, Roane, Jackson, Mason, Putnam and Cabell Counties, West Virginia. The project has been assigned the following file number: LRH-2015-736-OHR. Please reference this number on all future correspondence related to this proposed project.

The Corps' authority to regulate waters of the U.S. is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a DA permit be obtained prior to discharging dredged or fill material into waters of the U.S., including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over or under a navigable water.

The proposed project, as described in your PCN and supplemental information, has been reviewed in accordance with Section 404 and Section 10. Based on your description of the proposed work, and other information available to us, it has been determined that this project will involve activities subject to the requirements of Section 404 and Section 10.

In the submitted information, you have requested a DA authorization to temporarily discharge dredged and/or fill material into 29,101 linear feet (1.3905 acres) of ephemeral streams, 8,888 linear feet (1.3240 acres) of intermittent streams, 5,034 linear feet (2.5171 acres) of perennial streams, 5.604 acres of palustrine emergent wetlands, 0.180 acre of palustrine scrub-shrub wetlands and 0.070 acre of palustrine forested wetland, to permanently discharge dredged and/or fill material into 1,020 linear feet (0.0545 acre) of ephemeral streams, 60 linear feet (0.0186 acre) of intermittent stream and 0.009 acre of palustrine emergent wetland, and to permanently convert 0.032 acre of palustrine scrub-shrub wetlands and 0.262 acre of palustrine forested wetlands. There are 891 separate and distant locations in the portion of the proposed project located within the Huntington District's regulatory boundary, as shown on the enclosed table titled *Aquatic Resources Crossed by the Mountaineer Xpress Project U.S. Army Corps of Engineers – Huntington District*.

Based on the provided information, it has been determined the discharge of dredged and/or fill material into waters of the U.S., at 891 separate and distant locations, in conjunction with the utility line project meets the criteria for Nationwide Permit (NWP) #12 under the January 6, 2017 Federal Register, Issuance and Reissuance of NWPs (82 FR 1860) provided you comply with all terms and conditions of the enclosed material and the enclosed special conditions. A copy of this NWP can be found on our website at: <http://www.lrh.usace.army.mil/Missions/Regulatory.aspx>. Please be aware this NWP verification does not obviate the requirement to obtain any state or local assent required by law for the activities.

This verification is valid until the expiration date of the NWPs, unless the NWP authorization is modified, suspended, or revoked. The verification will remain valid if the NWP authorization is reissued without modification or the activity complies with any subsequent modification of the NWP authorization. All of the existing NWPs are scheduled to be modified, reissued, or revoked on March 18, 2022. Prior to this date, it is not necessary to contact this office for re-verification of your project unless the plans for the proposed activity are modified. Furthermore, if you commence or under contract to commence this activity before March 18, 2022, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

A copy of the NWP and this verification letter should be supplied to your project engineer responsible for project activities must be kept at the site during construction. Upon completion of the activities authorized by this NWP verification, the enclosed certification must be signed and returned to this office.

If you have any questions concerning the above, please contact Christopher L. Carson at 304-399-5819, by mail at the above address, or by email at christopher.l.carson@usace.army.mil.

Sincerely,

Teresa D. Spagna
Chief, North Branch

Enclosures

cc:

Ms. Julia Yuan
Office of Energy Projects
Federal Energy Regulatory Commission
Washington, D.C. 20426

Mr. Matthew Gilbert
U.S. Army Corps of Engineers
Pittsburgh District
1000 Liberty Avenue
Pittsburgh, Pennsylvania 15222

Ms. Wilma Reip
West Virginia Department of Environmental Protection
601 57th Street Southeast
Charleston, West Virginia 25304

Nationwide Permit 12 Verification Special Conditions
Columbia Gas Transmission, LLC Mountaineer Xpress Project
LRH-2015-736-OHR

Page 1 of 4

1. This verification remains contingent upon the permittee's submitted Pre-Construction Notification (PCN) information regarding the scope and/or impacts of the project as described in Figure 1 titled *Project Location Map Mountaineer Xpress Project Columbia Gas Transmission* and the aquatic resources identified in the enclosed Table 1 titled *Aquatic Resources Crossed by the Mountaineer Xpress Project U.S. Army Corps of Engineers – Huntington District*. Should new information regarding the scope and/or impacts of the project become available that was not submitted to this office during our review of the proposal, the permittee must submit written information concerning proposed modification(s) to this office for review and evaluation, as soon as practicable.
2. The permittee is required to apply for and secure all necessary permits, certifications or other approvals from Federal, State and/or local regulatory agencies, prior to commencing the construction activity. These other Federal, State and/or local approvals and all conditions attached to or contained therein are hereby incorporated by reference as being special conditions of this nationwide permit verification.
3. Enclosed is a copy of Nationwide Permit 12, which will be kept at the site during construction. A copy of the nationwide permit verification, special conditions, and the submitted construction plans must be kept at the site during construction. The permittee will supply a copy of these documents to their project engineer responsible for construction activities.
4. Construction activities will be performed during low flow conditions to the greatest extent practicable. Additionally, appropriate site specific best management practices for sediment and erosion control will be fully implemented during construction activities. The permittee shall ensure avoided stream and riparian upland buffers are adequately flagged and/or staked before construction activities to ensure these areas are not inadvertently impacted pre-, during- or post-construction and follow the *Wetland and Waterbody Construction and Mitigation Procedures* and the *Upland Erosion Control, Revegetation Plan, and Maintenance Plan* established by the Federal Energy Regulatory Commission.
5. Completion of stream and wetland crossings must adhere to the dates established in the Standard Conditions of the State 401 Water Quality Certification applicable to the Nationwide Permits, including the established restrictions during the spawning season for warm water streams and their adjacent tributaries (April to June) and trout waters and their adjacent tributaries (September 15 to March 31) or in accordance with any applicable timing restriction waivers issued by the State of West Virginia. For waiver requests, the permittee must contact the West Virginia Division of Natural Resources Coordination Unit, at (304) 637-0245. For information about specific stream designations, the permittee must contact the West Virginia Department of Environmental Protection, Water Quality Standards Section at (304) 926-0495.

**Nationwide Permit 12 Verification Special Conditions
Columbia Gas Transmission, LLC Mountaineer XPress Project
LRH-2015-736-OHR**

Page 2 of 4

6. At each stream crossing, substrate in the channel will be removed and stockpiled separately from other excavated material. This native material must be reused in the restoration of the stream channels and, upon final stream bed restoration, the streams must have similar substrate pattern, profile, dimension and embeddedness of the original stream channel. At each wetland crossing, the top 12 inches of soil will be removed and stockpiled separately from other excavated material and in accordance with the Federal Energy Regulatory Commission procedures. This native material must be reused in the restoration of the wetlands.

7. The permittee will document pre- and post-construction activities through photographs, both upstream and downstream of each channel and each bank. A minimum of four (4) photographs per stream crossing will be taken. For the major streams, as defined by the Federal Energy Regulatory Commission, additional photographs of the streams' banks will be taken for a minimum of six (6) photographs. For wetland crossings, the permittee will document prior to construction through photographs of the wetland within the Right-of-Way (ROW), the ROW as it enters the wetland, and the ROW as it exits the wetland. All photographs will be geo-referenced and identified to correspond with aquatic feature names as described in the enclosed Table titled *Aquatic Resources Crossed by the Mountaineer Xpress Project U.S. Army Corps of Engineers – Huntington District*, with a date of the photograph taken and corresponding GPS coordinates. Upon completion of construction and reclamation of each stream and wetland crossing, associated photographs must be taken in the same manner and locations as pre-impact existing conditions with narrative documentation that the area has been returned to pre-construction contours. The pre- and post-construction photographs associated with each stream and wetland crossing must be submitted to the Huntington District along with the enclosed "Activity Completion Certification."

8. The Individual Section 401 Water Quality Certification, issued by the West Virginia Department of Environmental Protection on July 26, 2017, is attached hereto and made a part of this nationwide permit verification. All conditions attached to or contained therein are hereby incorporated by reference as being special conditions of the nationwide permit verification.

9. The permittee has committed to cross the Kanawha River and Little Kanawha River water(s) subject to Section 10 of the Rivers and Harbors Act of 1899 (Section 10) via the horizontal directional drill method. Prior to any work in, on over or under the Kanawha River, the permittee must notify the United States Army Corps of Engineers, Huntington District Waterways Section, at least 14 days, but no more than 20 days, prior to the start of work. The Huntington District Waterways Section may be contacted at (304) 399-5239.

**Nationwide Permit 12 Verification Special Conditions
Columbia Gas Transmission, LLC Mountaineer XPress Project
LRH-2015-736-OHR**

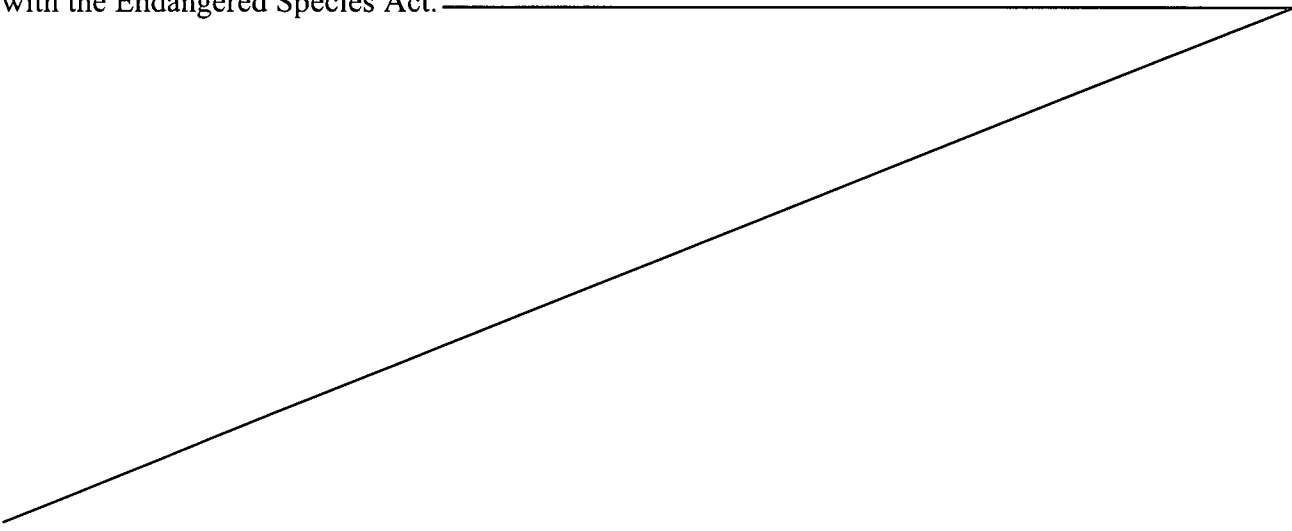
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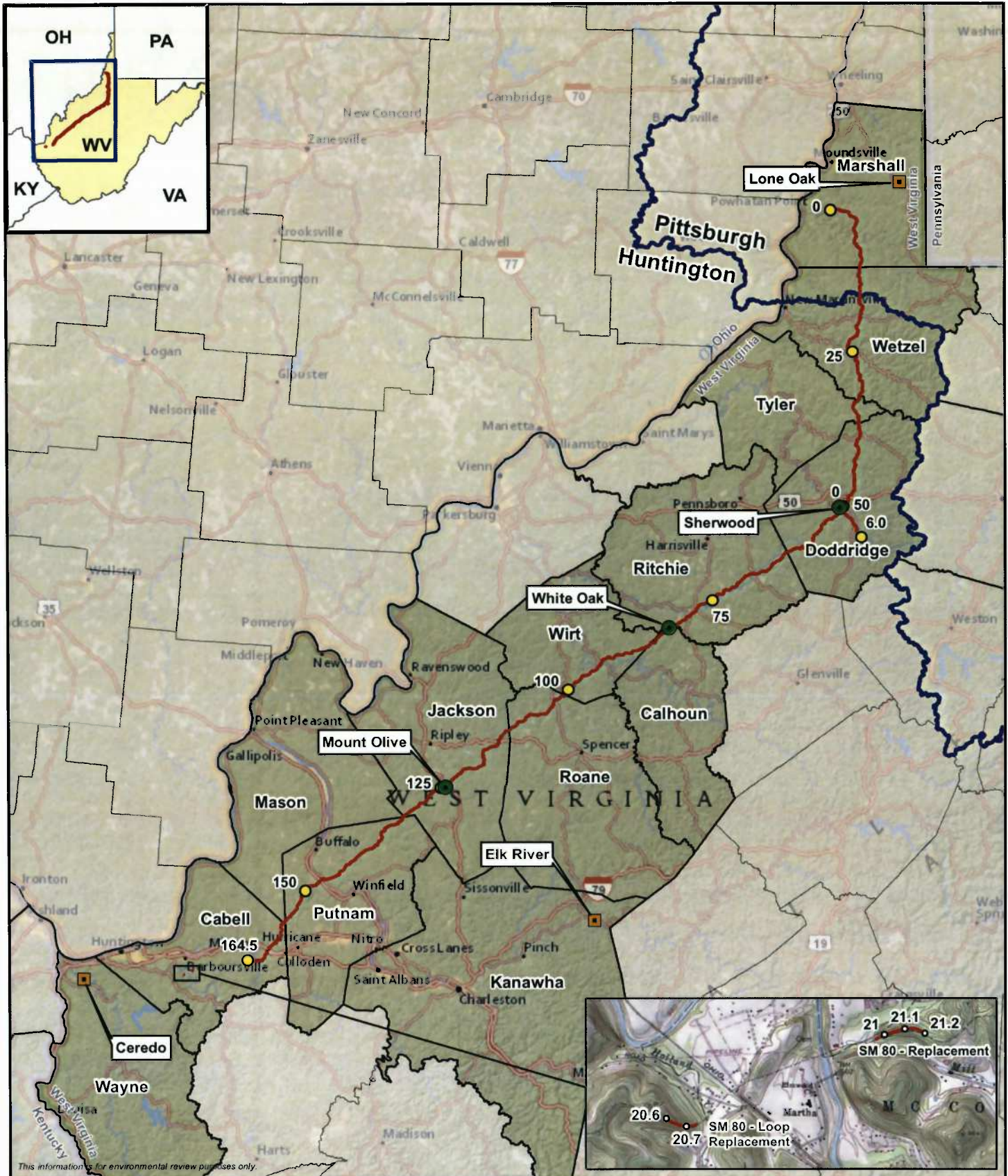
10. The project shall adhere to all United States Coast Guard regulations.
11. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the United States Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration. The permittee is solely responsible for insuring all activities are performed in compliance with all permit conditions.
12. The authorized work shall not interfere with the public's right to free navigation on navigable waters of the United States. The permittee will provide a site-specific spill response plan and Aid to Navigation (ATON) to provide public information on construction, in-stream activities, and any potential user restrictions during construction.
13. The permittee will purchase the required mitigation bank credits from the Foster Run Mitigation Bank prior to the discharge of dredged and/or fill material into waters of the United States as indicated on the table below. The permittee will submit confirmation to the Corps, Huntington District (Permit Number LRH-2015-736) of the fully executed mitigation purchase agreement with the Foster Run Mitigation Bank. The permittee will forward a check(s) for a total amount of \$752,602.11 to the West Virginia Department of Environmental Protection (WVDEP) In Lieu Fee (WVILF) program within 60 calendar days of the nationwide permit verification. After making the required payment, please forward the WVILF Payment Receipt to the Corps, Huntington District (Permit Number LRH-2015-736). If the required payment is not received by the WVDEP within 60 calendar days of the date of this nationwide permit verification, the permittee's nationwide permit verification may be revoked.

HUC-8 Name	Required Purchase of WVILF Credits Prior to Discharge of Dredged and/or Fill Material	Required Purchase of Mitigation Bank Credits Prior to Discharge of Dredged and/or Fill Material
Upper-Ohio Shade	615.52	-
Little Muskingum-Middle Island	-	16.15
Little Kanawha	146.18	-
Lower Guyandotte	0.16	-
Little Muskingum-Middle Island	-	0.02
Lower Kanawha	0.05	-
Little Kanawha	0.05	-
Upper Ohio Shade	0.04	-

**Nationwide Permit 12 Verification Special Conditions
Columbia Gas Transmission, LLC Mountaineer XPress Project
LRH-2015-736-OHR
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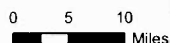
14. In the event any previously unknown historic or archaeological sites or human remains are uncovered while accomplishing the authorized activity, the permittee must cease all work in waters of the United States immediately and contact local, state and county law enforcement offices (only contact law enforcement on findings of human remains), the Corps at (304) 399-5210 and West Virginia State Historic Preservation Office at (304) 558-0220. The Federal Energy Regulatory Commission will initiate the Federal, state and tribal coordination required to comply with the National Historic Preservation Act and the applicable state and local laws and regulations. Federally recognized tribes are afforded a government-to-government status as sovereign nations and consultations are required under Executive Order 13175 and 36 CFR Part 800.

 15. The United States Fish and Wildlife Service (USFWS) letter titled *Columbia Gas Transmission, LLC – Mountaineer Xpress Project, in Cabell, Calhoun, Doddridge, Jackson, Marshall, Kanawha, Mason, Putnam, Ritchie, Roane, Tyler, Wayne, Wetzel, and Wirt Counties, West Virginia (FWS File # 2015-I-0575) (FERC Docket No. CP16-357-000)* and dated December 7, 2017 contains mandatory terms and conditions to avoid adverse effects to all federally listed species within the project area. The permittee's authorization under this nationwide permit verification is conditional upon their compliance with all of the mandatory terms and conditions, which are incorporated by reference as being special conditions of this nationwide permit verification, described in the December 7, 2017 USFWS letter. Section 7 obligations under Endangered Species Act must be reconsidered if new information reveals impacts of the project that may affect federally listed species or critical habitat in a manner not previously considered, the proposed project is subsequently modified to include activities which were not considered during Section 7 consultation with the USFWS, or new species are listed or critical habitat designated that might be affected by the subject project. The USFWS is the appropriate authority to determine compliance with the terms and conditions, and with the Endangered Species Act.
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This information is for environmental review purposes only.

- Proposed Mountaineer Pipeline
- Milepost
- Proposed Compressor Station
- Existing Station Modification
- USACE District Boundary
- County Boundary



Project Location Map
Mountaineer XPress Project
Columbia Gas Transmission

**Aquatic Resources Crossed by the Mountaineer XPress Project
U.S. Army Corps of Engineers – Huntington District**

Single and Complete Crossing No.	Unique ID	Flow Regime/ Cowardin Class ^a	County	Latitude	Longitude	Temporary Construction Impact Area (Acres) ^b	Permanent Construction Impact Area (Acres) ^{b, c}	Volume (Cubic Yards) ^d	Workspace Type ^e	Impact Type ^f	Mitigation (Bank and/or ILF)	Delineation Type	Figure A-7 Page No.
MXP-100													
1	swzg016	Intermittent	Wetzel	39.663074	-80.677933	0.0063	0.000	25	Pipeline/ Workspace	Temporary		Field	002
2	swzn803	Ephemeral	Wetzel	39.653212	-80.679576	0.0003	0.000	3	Pipeline/ Workspace	Temporary		Field	003
3	swzg012c	Perennial	Wetzel	39.649459	-80.673714	0.0104	0.000	42	Pipeline/ Workspace	Temporary		Field	004
4	swzo301	Ephemeral	Wetzel	39.649141	-80.673139	0.0005	0.000	0	Pipeline/ Workspace	Temporary		Field	004
5	swzg026	Ephemeral	Wetzel	39.646641	-80.671498	0.0043	0.000	15	Pipeline/ Workspace	Temporary		Field	004
5	swzg028	Ephemeral	Wetzel	39.646285	-80.671543	0.0006	0.000	4	Pipeline/ Workspace	Temporary		Field	004
6	swzg029	Intermittent	Wetzel	39.645989	-80.67145	0.0074	0.000	29	Pipeline/ Workspace	Temporary		Field	004
6	swzg030	Ephemeral	Wetzel	39.64584	-80.671428	0.0054	0.000	18	Pipeline/ Workspace	Temporary		Field	004
7	wwzo301e	PEM	Wetzel	39.631623	-80.678759	0.005	0.000	0	Staging Area	Temporary		Field	006
8	swzf014	Perennial	Wetzel	39.631023	-80.677346	0.023	0.000	95	Pipeline/ Workspace	Temporary		Field	006
9	swzf013	Intermittent	Wetzel	39.621537	-80.679636	0.0044	0.000	18	Pipeline/ Workspace	Temporary		Field	007
10	swzf009	Intermittent	Wetzel	39.611734	-80.685751	0.0056	0.000	23	Pipeline/ Workspace	Temporary		Field	008, 010
11	swzg504	Ephemeral	Wetzel	39.623029	-80.714459	0.0011	0.000	12	Proposed Yard	Temporary		Field	243
12	swzf021	Ephemeral	Wetzel	39.595944	-80.686123	0.0031	0.000	16	Pipeline/ Workspace	Temporary		Field	243
13	swzf018	Intermittent	Wetzel	39.595667	-80.686715	0.0072	0.000	29	Pipeline/ Workspace	Temporary		Field	012
14	swzf023	Ephemeral	Wetzel	39.593283	-80.686163	0.0039	0.000	16	Pipeline/ Workspace	Temporary		Field	012
14	swzf024	Intermittent	Wetzel	39.593157	-80.686061	0.0024	0.000	10	Pipeline/ Workspace	Temporary		Field	012
14	swzf305	Intermittent	Wetzel	39.593463	-80.686212	0.0023	0.000	8	Pipeline/ Workspace	Temporary		Field	012
15	swza017	Ephemeral	Wetzel	39.589773	-80.692617	0.0066	0.000	27	Pipeline/ Workspace	Temporary		Field	012, 013, 014
16	swza022	Ephemeral	Wetzel	39.587716	-80.695956	0.0044	0.000	18	Pipeline/ Workspace	Temporary		Field	015
16	swza023	Ephemeral	Wetzel	39.587627	-80.696261	0.0047	0.000	16	Pipeline/ Workspace	Temporary		Field	013, 014
17	swzo801	Ephemeral	Wetzel	39.591061	-80.698972	0.004	0.000	1	Access Road	Temporary		Field	013
17	swzo802	Ephemeral	Wetzel	39.591143	-80.699002	0.0013	0.000	4	Access Road	Temporary		Field	013

**Aquatic Resources Crossed by the Mountaineer XPress Project
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Single and Complete Crossing No.	Unique ID	Flow Regime/ Cowardin Class ^a	County	Latitude	Longitude	Temporary Construction Impact Area (Acres) ^b	Permanent Construction Impact Area (Acres) ^{b, c}	Volume (Cubic Yards) ^d	Workspace Type ^e	Impact Type ^f	Mitigation (Bank and/or ILF)	Delineation Type	Figure A-7 Page No.
18	swza026	Ephemeral	Wetzel	39.586553	-80.699132	0.0053	0.000	21	Pipeline/ Workspace	Temporary		Field	014
19	swza029	Ephemeral	Wetzel	39.583886	-80.704189	0.0009	0.000	6	Pipeline/ Workspace	Temporary		Field	014
19	swza031	Ephemeral	Wetzel	39.583689	-80.704229	0.0052	0.000	21	Pipeline/ Workspace	Temporary		Field	014
20	swza032	Ephemeral	Wetzel	39.583334	-80.704619	0.0042	0.000	17	Pipeline/ Workspace	Temporary		Field	014
20	swza033	Ephemeral	Wetzel	39.583474	-80.704463	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	014
21	wwza003e	PEM	Wetzel	39.579943	-80.705987	0.033	0.000	0	Workspace	Temporary		Field	015
22	swzg045	Ephemeral	Wetzel	39.577446	-80.707088	0.0016	0.000	10	Pipeline/ Workspace	Temporary		Field	015
23	swzg047	Ephemeral	Wetzel	39.577249	-80.707308	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	015
24	swzg042	Ephemeral	Wetzel	39.572363	-80.708641	0.0041	0.000	17	Pipeline/ Workspace	Temporary		Field	017
25	wwzg003e	PEM	Wetzel	39.571894	-80.708437	0.011	0.000	0	Workspace	Temporary		Field	016
26	swzg039	Ephemeral	Wetzel	39.568379	-80.709052	0.0029	0.000	12	Pipeline/ Workspace	Temporary		Field	016
27	swzg065	Perennial	Wetzel	39.562172	-80.705408	0.0601	0.000	257	Pipeline/ Workspace	Temporary		Field	017
28	swzf005	Intermittent	Wetzel	39.562002	-80.703314	0.0652	0.000	263	Pipeline/ Workspace	Temporary		Field	017, 018
29	swzf306	Ephemeral	Wetzel	39.560587	-80.697205	0.001	0.000	0	Pipeline/ Workspace	Temporary		Field	018
30	swzh001	Ephemeral	Wetzel	39.559455	-80.695263	0.0033	0.000	21	Pipeline/ Workspace	Temporary		Field	018
31	swzf308	Ephemeral	Wetzel	39.557902	-80.692177	0.0021	0.000	9	Pipeline/ Workspace	Temporary		Field	018
32	swzf309	Ephemeral	Wetzel	39.55779	-80.691774	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	018
32	swzh002	Ephemeral	Wetzel	39.557705	-80.691471	0.0031	0.000	12	Pipeline/ Workspace	Temporary		Field	018
33	swza013	Intermittent	Wetzel	39.552963	-80.688944	0.007	0.000	29	Pipeline/ Workspace	Temporary		Field	019
34	swzg051	Ephemeral	Wetzel	39.549878	-80.688349	0.000	0.000	0	Pipeline/ Workspace	Temporary		Field	019
35	swzg053	Perennial	Wetzel	39.547298	-80.691121	0.0201	0.000	84	Pipeline/ Workspace	Temporary		Field	019, 020
36	swza011	Intermittent	Wetzel	39.541296	-80.689332	0.0002	0.000	1	Access Road	Temporary		Field	020
37	swzg053	Perennial	Wetzel	39.543941	-80.689149	0.0291	0.000	120	Pipeline/ Workspace	Temporary		Field	019, 020
38	swzn819	Ephemeral	Wetzel	39.542251	-80.683882	0.0002	0.000	1	Access Road	Temporary		Field	020

**Aquatic Resources Crossed by the Mountaineer XPress Project
U.S. Army Corps of Engineers – Huntington District**

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39	swzn819	Ephemeral	Wetzel	39.541935	-80.683356	0.0008	0.000	3	Access Road	Temporary		Field	020
40	swzo318	Intermittent	Wetzel	39.540685	-80.683913	0.0044	0.000	7	Access Road	Temporary		Field	020
41	swzg503	Ephemeral	Wetzel	39.54081	-80.68846	0.0001	0.000	1	Access Road	Temporary		Field	020
41	swzg502	Ephemeral	Wetzel	39.540697	-80.688541	0.0053	0.000	8	Access Road	Temporary		Field	020, 021
42	swza011	Intermittent	Wetzel	39.540535	-80.684677	0.0073	0.000	29	Pipeline/ Workspace	Temporary		Field	020
43	swza011	Intermittent	Wetzel	39.540335	-80.684294	0.0054	0.000	5	Access Road	Temporary		Field	020
44	swzn820	Ephemeral	Wetzel	39.540197	-80.68797	0.0016	0.000	5	Access Road	Temporary		Field	020
45	swzg502	Ephemeral	Wetzel	39.539833	-80.688591	0.0027	0.000	4	Access Road	Temporary		Field	020, 021
46	swzn816	Ephemeral	Wetzel	39.538672	-80.688698	0.0005	0.000	2	Access Road	Temporary		Field	021
47	swzn818	Ephemeral	Wetzel	39.537765	-80.689309	0.0011	0.000	2	Access Road	Temporary		Field	021
48	swzn817	Ephemeral	Wetzel	39.538219	-80.688834	0.0008	0.000	3	Access Road	Temporary		Field	021
49	swza006	Ephemeral	Wetzel	39.535675	-80.686121	0.0114	0.000	48	Pipeline/ Workspace	Temporary		Field	021
50	swza001	Intermittent	Wetzel	39.533392	-80.685605	0.0084	0.000	39	Pipeline/ Workspace	Temporary		Field	021
51	wwza001e	PEM	Wetzel	39.529402	-80.685301	0.054	0.000	33	Pipeline/ Workspace	Temporary		Field	022
52	swzg010	Intermittent	Wetzel	39.520534	-80.682054	0.0074	0.000	30	Pipeline/ Workspace	Temporary		Field	023
52	swzg011	Ephemeral	Wetzel	39.520621	-80.682094	0.006	0.000	21	Pipeline/ Workspace	Temporary		Field	023
53	swzg009	Ephemeral	Wetzel	39.520343	-80.681995	0.0008	0.000	4	Pipeline/ Workspace	Temporary		Field	023
54	swzf319	Perennial	Wetzel	39.522681	-80.64681	0.0202	0.000	11	Access Road	Temporary		Field	024
55	swzf314	Ephemeral	Wetzel	39.51468	-80.67914	0.0004	0.000	0	Workspace	Temporary		Field	026
56	swzf315	Ephemeral	Wetzel	39.513249	-80.680647	0.0004	0.000	0	Workspace	Temporary		Field	026
57	swzg006	Intermittent	Wetzel	39.50968	-80.681652	0.0069	0.000	29	Pipeline/ Workspace	Temporary		Field	026
58	swzf318	Perennial	Wetzel	39.504706	-80.635091	0.0116	0.000	10	Access Road	Temporary		Field	030
59	swzg031	Ephemeral	Wetzel	39.5021	-80.674146	0.0003	0.000	2	Pipeline/ Workspace	Temporary		Field	029
60	swzg032	Ephemeral	Wetzel	39.501175	-80.674003	0.0011	0.000	5	Pipeline/ Workspace	Temporary		Field	029

**Aquatic Resources Crossed by the Mountaineer XPress Project
U.S. Army Corps of Engineers – Huntington District**

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61	swzg033	Intermittent	Wetzel	39.500435	-80.674022	0.0104	0.000	45	Pipeline/ Workspace	Temporary		Field	029, 032
62	swzg055	Ephemeral	Wetzel	39.500141	-80.673927	0.001	0.000	1	Pipeline/ Workspace	Temporary		Field	029, 032
63	swzg056	Ephemeral	Wetzel	39.498175	-80.673999	0.0008	0.000	4	Pipeline/ Workspace	Temporary		Field	032
63	swzg058	Ephemeral	Wetzel	39.498061	-80.674002	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	032
64	swzg057	Ephemeral	Wetzel	39.497949	-80.673997	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	032
64	swzg059	Ephemeral	Wetzel	39.497823	-80.673956	0.001	0.000	4	Pipeline/ Workspace	Temporary		Field	032
65	swzg061	Intermittent	Wetzel	39.484462	-80.67631	0.0199	0.000	78	Pipeline/ Workspace	Temporary		Field	035, 038
66	swzo401	Perennial	Wetzel	39.481983	-80.673172	0.0069	0.000	10	Access Road	Temporary		Field	038
67	swzo317	Ephemeral	Wetzel	39.479118	-80.681342	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	038
68	wwzo302f	PFO	Wetzel	39.478192	-80.681715	0.000	0.000	0	Workspace	Temporary		Field	038
69	styh014	Intermittent	Tyler	39.467338	-80.689491	0.0036	0.000	15	Pipeline/ Workspace	Temporary		Field	040
70	styo805	Ephemeral	Tyler	39.461404	-80.695109	0.0004	0.000	0	Workspace	Temporary		Field	040, 041
71	styo804	Ephemeral	Tyler	39.461313	-80.695215	0.0008	0.000	0	Workspace	Temporary		Field	041
72	styg520	Ephemeral	Tyler	39.458636	-80.69685	0.00003	0.000	0	Access Road	Temporary		Field	041
73	styg010	Ephemeral	Tyler	39.455475	-80.697213	0.0018	0.000	2	Access Road	Temporary		Field	041
74	styh005	Perennial	Tyler	39.454533	-80.696848	0.0068	0.000	27	Pipeline/ Workspace	Temporary		Field	041, 042
75	styh008	Intermittent	Tyler	39.453011	-80.69524	0.0045	0.000	18	Pipeline/ Workspace	Temporary		Field	042
75	styh012	Ephemeral	Tyler	39.452816	-80.695041	0.0083	0.000	43	Pipeline/ Workspace	Temporary		Field	042
76	styh001	Perennial	Tyler	39.446529	-80.689634	0.0092	0.000	35	Pipeline/ Workspace	Temporary		Field	042, 043
77	styh003	Ephemeral	Tyler	39.445511	-80.689408	0.0011	0.000	2	Access Road	Temporary		Field	043
78	styh003	Ephemeral	Tyler	39.445236	-80.688583	0.0019	0.000	8	Pipeline/ Workspace	Temporary		Field	043
79	styg312	Intermittent	Tyler	39.442534	-80.686031	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	043
80	styg310	Ephemeral	Tyler	39.442316	-80.685733	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	043
81	styg028	Ephemeral	Tyler	39.43833	-80.684015	0.0032	0.000	2	Access Road	Temporary		Field	043, 044

**Aquatic Resources Crossed by the Mountaineer XPress Project
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82	styg027	Perennial	Tyler	39.438614	-80.685489	0.0047	0.000	11	Access Road	Temporary		Field	043, 044
83	styg027	Perennial	Tyler	39.438237	-80.685035	0.0077	0.000	39	Pipeline/ Workspace	Temporary		Field	043, 044
84	sdog523	Ephemeral	Doddridge	39.427526	-80.675724	0.0006	0.000	2	Access Road	Temporary		Field	045
85	sdog515	Ephemeral	Doddridge	39.426968	-80.678327	0.0014	0.000	2	Access Road	Temporary		Field	045
86	sdog516	Ephemeral	Doddridge	39.426512	-80.678712	0.0004	0.000	1	Access Road	Temporary		Field	045
86	sdog516	Ephemeral	Doddridge	39.42649	-80.678678	0.0002	0.000	1	Access Road	Temporary		Field	045
87	sdog517	Ephemeral	Doddridge	39.425901	-80.67941	0.0005	0.000	2	Access Road	Temporary		Field	045
87	sdog517	Ephemeral	Doddridge	39.425883	-80.679371	0.0001	0.000	1	Access Road	Temporary		Field	045
88	sdog521	Ephemeral	Doddridge	39.426016	-80.678371	0.0006	0.000	2	Access Road	Temporary		Field	045
89	sdog375	Intermittent	Doddridge	39.422245	-80.68632	0.0012	0.000	5	Access Road	Temporary		Field	046
90	sdog518	Ephemeral	Doddridge	39.426209	-80.677644	0.0006	0.000	2	Access Road	Temporary		Field	045
91	sdoh018	Perennial	Doddridge	39.423329	-80.683302	0.0077	0.000	31	Pipeline/ Workspace	Temporary		Field	045, 046
92	sdog522	Ephemeral	Doddridge	39.426973	-80.675607	0.0001	0.000	1	Access Road	Temporary		Field	045
92	sdog522	Ephemeral	Doddridge	39.426981	-80.675572	0.0004	0.000	2	Access Road	Temporary		Field	045
93	sdog519	Ephemeral	Doddridge	39.42635	-80.676869	0.0006	0.000	2	Access Road	Temporary		Field	045
94	wdog313e	PEM	Doddridge	39.423181	-80.683098	0.012	0.000	0	Workspace	Temporary		Field	045, 046
95	sdog520	Ephemeral	Doddridge	39.426281	-80.67556	0.0005	0.000	2	Access Road	Temporary		Field	045
96	wdoi404e	PEM	Doddridge	39.417533	-80.684693	0.005	0.000	0	Access Road	Temporary		Field	046
97	sdoi429	Ephemeral	Doddridge	39.418029	-80.687222	0.0022	0.000	0	Access Road	Temporary		Field	046
98	sdoi201	Ephemeral	Doddridge	39.407836	-80.680129	0.0025	0.000	25	Pipeline/ Workspace	Temporary		Field	047, 048
99	sdog377	Ephemeral	Doddridge	39.40642	-80.680272	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	048
100	sdog377	Ephemeral	Doddridge	39.40636	-80.680706	0.0021	0.000	3	Staging Area	Temporary		Field	048
101	wdog315e	PEM	Doddridge	39.405554	-80.679530	0.012	0.000	0	Workspace	Temporary		Field	048
101	wdog315e	PEM	Doddridge	39.405554	-80.679530	0.004	0.000	0	Staging Area	Temporary		Field	048

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102	sdoi013	Ephemeral	Doddridge	39.405906	-80.681036	0.0093	0.000	15	Staging Area	Temporary		Field	048
103	sdoi011	Perennial	Doddridge	39.40429	-80.679273	0.0732	0.000	284	Pipeline/ Workspace	Temporary		Field	048
104	sdoi008	Intermittent	Doddridge	39.400315	-80.681405	0.0044	0.000	18	Pipeline/ Workspace	Temporary		Field	048
104	sdoi007	Ephemeral	Doddridge	39.39962	-80.681555	0.0025	0.000	18	Pipeline/ Workspace	Temporary		Field	048, 049
105	sdon800	Ephemeral	Doddridge	39.397824	-80.689565	0.0012	0.000	4	Access Road	Temporary		Field	049
106	sdoc013	Intermittent	Doddridge	39.395243	-80.687087	0.0147	0.000	53	Pipeline/ Workspace	Temporary		Field	049
107	sdog514	Intermittent	Doddridge	39.381558	-80.694617	0.0027	0.000	5	Access Road	Temporary		Field	052
108	sdog240a	Ephemeral	Doddridge	39.363121	-80.689127	0.0074	0.000	39	Pipeline/ Workspace	Temporary		Field	054
109	wdoi403e	PEM	Doddridge	39.362578	-80.689363	0.057	0.000	93	Pipeline/ Workspace	Temporary		Field	054
110	sdog317	Ephemeral	Doddridge	39.359965	-80.690586	0.0003	0.000	1	Access Road	Temporary		Field	055
111	sdog318	Ephemeral	Doddridge	39.359727	-80.690605	0.0003	0.000	1	Access Road	Temporary		Field	055
112	sdog319	Ephemeral	Doddridge	39.358808	-80.689846	0.0003	0.000	1	Access Road	Temporary		Field	055
113	sdog321	Ephemeral	Doddridge	39.358331	-80.689844	0.0003	0.000	1	Access Road	Temporary		Field	055
114	sdog329	Ephemeral	Doddridge	39.35522	-80.689153	0.0003	0.000	1	Access Road	Temporary		Field	055
115	sdog328	Ephemeral	Doddridge	39.355818	-80.68937	0.0003	0.000	1	Access Road	Temporary		Field	055
116	sdog327	Intermittent	Doddridge	39.356449	-80.689594	0.0012	0.000	3	Access Road	Temporary		Field	055
117	sdog330	Ephemeral	Doddridge	39.355044	-80.689064	0.0002	0.000	1	Access Road	Temporary		Field	055
118	sdog352	Ephemeral	Doddridge	39.355464	-80.696008	0.0014	0.000	3	Pipeline/ Workspace	Temporary		Field	055
118	sdog353	Ephemeral	Doddridge	39.354844	-80.695934	0.0026	0.000	5	Pipeline/ Workspace	Temporary		Field	055, 056
119	sdog353	Ephemeral	Doddridge	39.35237	-80.695024	0.0011	0.000	3	Access Road	Temporary		Field	055, 056
120	sdof401	Perennial	Doddridge	39.351997	-80.693927	0.0061	0.000	25	Pipeline/ Workspace	Temporary		Field	056
121	sdog369	Perennial	Doddridge	39.341965	-80.69481	0.0191	0.000	70	Pipeline/ Workspace	Temporary		Field	057
122	sdog369	Perennial	Doddridge	39.341715	-80.69424	0.000	0.000	0	Access Road - existing	Permanent		Field	057

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123	sdog370	Ephemeral	Doddridge	39.341504	-80.694335	0.000	0.000	0	Access Road - existing	Permanent		Field	057
124	sdog370	Ephemeral	Doddridge	39.340867	-80.695015	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	057
125	sdog373	Ephemeral	Doddridge	39.338742	-80.693413	0.0025	0.000	13	Access Road	Temporary		Field	057
126	sdog535	Ephemeral	Doddridge	39.337291	-80.696514	0.0006	0.000	2	Access Road	Temporary		Field	058
127	sdog534	Ephemeral	Doddridge	39.336715	-80.696592	0.0006	0.000	2	Access Road	Temporary		Field	058
128	sdog533	Ephemeral	Doddridge	39.336599	-80.696494	0.0006	0.000	2	Access Road	Temporary		Field	058
129	sdog531	Ephemeral	Doddridge	39.335538	-80.696713	0.0003	0.000	1	Access Road	Temporary		Field	058
130	sdog526	Ephemeral	Doddridge	39.327989	-80.695585	0.0028	0.000	11	Pipeline/ Workspace	Temporary		Field	059
131	sdog527	Intermittent	Doddridge	39.327821	-80.695616	0.0024	0.000	9	Pipeline/ Workspace	Temporary		Field	059
131	sdog528	Ephemeral	Doddridge	39.327683	-80.69563	0.0009	0.000	4	Pipeline/ Workspace	Temporary		Field	059
132	sdog406	Ephemeral	Doddridge	39.316137	-80.707353	0.0045	0.000	3	Access Road	Temporary		Field	060
133	sdog501	Ephemeral	Doddridge	39.316293	-80.707052	0.0006	0.000	2	Access Road	Temporary		Field	060
134	wdog317e	PEM	Doddridge	39.316920	-80.696209	0.016	0.000	0	Workspace	Temporary		Field	060
134	sdog418	Intermittent	Doddridge	39.316627	-80.696108	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	060
134	sdog419	Intermittent	Doddridge	39.316763	-80.69629	0.0018	0.000	5	Access Road	Temporary		Field	060
134	sdog420	Ephemeral	Doddridge	39.316958	-80.696065	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	060
135	sdoo328	Ephemeral	Doddridge	39.316574	-80.698632	0.0039	0.000	8	Access Road	Temporary		Field	060
136	sdog417	Intermittent	Doddridge	39.315889	-80.69612	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	060
137	sdog414	Ephemeral	Doddridge	39.313294	-80.69671	0.0007	0.000	2	Access Road	Temporary		Field	061
138	sdog412	Ephemeral	Doddridge	39.312902	-80.695907	0.0012	0.000	0	Pipeline/ Workspace	Temporary		Field	061
138	sdog413	Intermittent	Doddridge	39.313093	-80.695955	0.003	0.000	12	Pipeline/ Workspace	Temporary		Field	061
139	sdog505	Ephemeral	Doddridge	39.313107	-80.697238	0.00004	0.000	1	Access Road	Temporary		Field	061
140	sdog413	Intermittent	Doddridge	39.312998	-80.697606	0.0055	0.000	10	Access Road	Temporary		Field	061

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140	sdog509	Ephemeral	Doddridge	39.312935	-80.697724	0.0009	0.000	3	Access Road	Temporary		Field	061
140	sdog510	Ephemeral	Doddridge	39.312949	-80.697746	0.0003	0.000	1	Access Road	Temporary		Field	061
141	sdog510	Ephemeral	Doddridge	39.312828	-80.697895	0.0009	0.000	3	Access Road	Temporary		Field	061
142	sdog407	Ephemeral	Doddridge	39.312544	-80.701025	0.0006	0.000	2	Access Road	Temporary		Field	061
143	sdog407	Ephemeral	Doddridge	39.312684	-80.701146	0.0003	0.000	1	Access Road	Temporary		Field	061
144	sdog511	Ephemeral	Doddridge	39.312289	-80.699003	0.0007	0.000	2	Access Road	Temporary		Field	061
145	sdog511	Ephemeral	Doddridge	39.312161	-80.698987	0.0004	0.000	1	Access Road	Temporary		Field	061
146	sdog408	Ephemeral	Doddridge	39.311933	-80.700203	0.0019	0.000	2	Access Road	Temporary		Field	061
147	sdog408	Ephemeral	Doddridge	39.311803	-80.700521	0.0004	0.000	1	Access Road	Temporary		Field	061
148	sdog409	Ephemeral	Doddridge	39.311551	-80.699653	0.0002	0.000	1	Access Road	Temporary		Field	061
149	sdog410	Ephemeral	Doddridge	39.311507	-80.698274	0.0001	0.000	1	Access Road	Temporary		Field	061
150	sdoo323	Ephemeral	Doddridge	39.301122	-80.696528	0.0002	0.000	1	Access Road	Temporary		Field	062
151	sdoo319	Ephemeral	Doddridge	39.300716	-80.698551	0.0003	0.000	1	Access Road	Temporary		Field	062
152	sdoo316	Intermittent	Doddridge	39.300731	-80.699098	0.0021	0.000	5	Access Road	Temporary		Field	062
153	sdoo318	Ephemeral	Doddridge	39.30067	-80.699333	0.0018	0.000	3	Access Road	Temporary		Field	062
154	sdog383	Ephemeral	Doddridge	39.290686	-80.693569	0.0006	0.000	2	Access Road	Temporary		Field	063, 064
155	sdog385	Ephemeral	Doddridge	39.2901	-80.693259	0.0013	0.000	2	Access Road	Temporary		Field	064
155	sdog386	Intermittent	Doddridge	39.290054	-80.693184	0.0008	0.000	2	Access Road	Temporary		Field	063, 064
156	sdog380	Ephemeral	Doddridge	39.291043	-80.695671	0.0007	0.000	2	Access Road	Temporary		Field	063, 064
157	sdog386	Intermittent	Doddridge	39.289294	-80.692631	0.0031	0.000	4	Access Road	Temporary		Field	063, 064
158	sdog389	Perennial	Doddridge	39.286599	-80.68934	0.0088	0.000	9	Access Road	Temporary		Field	064
159	sdog387	Ephemeral	Doddridge	39.287147	-80.689529	0.0036	0.000	11	Access Road	Temporary		Field	064
160	sdog386	Intermittent	Doddridge	39.287428	-80.692318	0.0045	0.000	6	Access Road	Temporary		Field	063, 064

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161	sdog386	Intermittent	Doddridge	39.28846	-80.692607	0.0013	0.000	3	Access Road	Temporary		Field	063, 064
162	sdog346	Ephemeral	Doddridge	39.287634	-80.707986	0.0002	0.000	1	Access Road	Temporary		Field	065
163	sdog341	Ephemeral	Doddridge	39.2883	-80.709785	0.0014	0.000	6	Pipeline/ Workspace	Temporary		Field	065
164	sdog343	Perennial	Doddridge	39.28821	-80.713879	0.0093	0.000	11	Access Road	Temporary		Field	065
165	sdog344	Ephemeral	Doddridge	39.287905	-80.710903	0.0003	0.000	1	Access Road	Temporary		Field	065
166	sdog342	Intermittent	Doddridge	39.287741	-80.709222	0.0026	0.000	5	Access Road	Temporary		Field	065
167	sdog342	Intermittent	Doddridge	39.287955	-80.712455	0.0071	0.000	13	Access Road	Temporary		Field	065
168	sdog342	Intermittent	Doddridge	39.287934	-80.712855	0.0017	0.000	4	Access Road	Temporary		Field	065
169	sdog342	Intermittent	Doddridge	39.287486	-80.710034	0.0031	0.000	13	Pipeline/ Workspace	Temporary		Field	065
169	sdog342_a	Intermittent	Doddridge	39.287462	-80.71005	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	065
170	sdoc020	Perennial	Doddridge	39.285924	-80.71013	0.0377	0.000	157	Pipeline/ Workspace	Temporary		Field	065
171	sdoi418	Intermittent	Doddridge	39.271401	-80.707039	0.0029	0.000	5	Access Road	Temporary		Field	067
172	sdoi422	Ephemeral	Doddridge	39.277299	-80.710689	0.0069	0.000	20	Access Road	Temporary		Field	066
173	sdoi422	Ephemeral	Doddridge	39.276462	-80.711049	0.0003	0.000	2	Access Road	Temporary		Field	066
173	wdoi401e	PEM	Doddridge	39.276511	-80.711013	0.002	0.000	0	Access Road	Temporary		Field	066
174	sdoi422	Ephemeral	Doddridge	39.27668	-80.710893	0.0018	0.000	5	Access Road	Temporary		Field	066
174	sdoi422	Ephemeral	Doddridge	39.276311	-80.711212	0.0006	0.000	2	Access Road	Temporary		Field	066
175	sdoi417	Ephemeral	Doddridge	39.270839	-80.708536	0.0012	0.000	2	Access Road	Temporary		Field	067
175	sdoi420	Ephemeral	Doddridge	39.270832	-80.70842	0.0014	0.000	5	Access Road	Temporary		Field	067
176	sdoi402	Ephemeral	Doddridge	39.270256	-80.713017	0.0004	0.000	1	Access Road	Temporary		Field	067
177	sdoi402	Ephemeral	Doddridge	39.270352	-80.712923	0.0002	0.000	1	Access Road	Temporary		Field	067
178	sdoi402	Ephemeral	Doddridge	39.27045	-80.712565	0.0054	0.000	8	Access Road	Temporary		Field	067
179	sdoi403	Ephemeral	Doddridge	39.270577	-80.711683	0.0012	0.000	4	Access Road	Temporary		Field	067

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180	sdoi403	Ephemeral	Doddridge	39.270598	-80.711248	0.0034	0.000	10	Access Road	Temporary		Field	067
181	sdoi403	Ephemeral	Doddridge	39.270646	-80.710687	0.0033	0.000	10	Access Road	Temporary		Field	067
181	sdoi403	Ephemeral	Doddridge	39.27077	-80.708845	0.0011	0.000	4	Access Road	Temporary		Field	067
181	sdoi403	Ephemeral	Doddridge	39.270768	-80.709556	0.0028	0.000	9	Access Road	Temporary		Field	067
182	sdog349	Ephemeral	Doddridge	39.269107	-80.727407	0.0015	0.000	10	Pipeline/ Workspace	Temporary		Field	068
182	wdog305e	PEM	Doddridge	39.268980	-80.727327	0.023	0.000	40	Pipeline/ Workspace	Temporary		Field	068
183	sdoh026	Perennial	Doddridge	39.269184	-80.728374	0.0689	0.000	515	Pipeline/ Workspace	Temporary		Field	068
184	sdoh027	Ephemeral	Doddridge	39.268621	-80.733943	0.000	0.0026	32	Sherwood CS	Permanent	Foster Run MB	Field	068
184	sdoh027	Ephemeral	Doddridge	39.268621	-80.733943	0.0036	0.000	7	Sherwood CS	Temporary		Field	068
185	sdoh028	Ephemeral	Doddridge	39.270363	-80.733832	0.000	0.000	0	Access Road - existing	Temporary		Field	068
186	sdoh028	Ephemeral	Doddridge	39.269003	-80.734265	0.000	0.000	0	Access Road - existing	Temporary		Field	068
187	sdog002	Perennial	Doddridge	39.260671	-80.72428	0.2094	0.000	723	Pipeline/ Workspace	Temporary		Field	070, 233
188	sdog396	Intermittent	Doddridge	39.260209	-80.723601	0.0012	0.000	6	Pipeline/ Workspace	Temporary		Field	233
189	sdog073	Intermittent	Doddridge	39.257399	-80.72502	0.0094	0.000	41	Pipeline/ Workspace	Temporary		Field	070, 071, 072, 233, 234
190	sdog073	Intermittent	Doddridge	39.255897	-80.725929	0.0141	0.000	7	Access Road	Temporary		Field	070, 071, 072, 233, 234
190	sdoo857	Ephemeral	Doddridge	39.255913	-80.725964	0.0001	0.000	1	Access Road	Temporary		Field	070, 234
191	sdoo855	Ephemeral	Doddridge	39.255251	-80.726775	0.0006	0.000	2	Access Road	Temporary		Field	070, 234
192	sdoo853	Ephemeral	Doddridge	39.255031	-80.727483	0.0006	0.000	2	Access Road	Temporary		Field	070
193	sdog073	Intermittent	Doddridge	39.254365	-80.7286	0.0117	0.000	6	Access Road	Temporary		Field	070, 071, 072, 233, 234
194	sdon810	Ephemeral	Doddridge	39.259332	-80.73082	0.00004	0.000	1	Access Road	Temporary		Field	069, 070, 233
195	sdog054	Ephemeral	Doddridge	39.257772	-80.731169	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	070, 233

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195	sdog055	Ephemeral	Doddridge	39.257786	-80.731038	0.0067	0.000	27	Pipeline/ Workspace	Temporary		Field	069, 070, 233
196	sdoo851	Ephemeral	Doddridge	39.253342	-80.730272	0.0001	0.000	1	Access Road	Temporary		Field	070
197	sdoo850	Ephemeral	Doddridge	39.253236	-80.730702	0.0003	0.000	1	Access Road	Temporary		Field	070
198	sdog048	Intermittent	Doddridge	39.25479	-80.735273	0.0064	0.000	23	Pipeline/ Workspace	Temporary		Field	070
198	sdog051	Ephemeral	Doddridge	39.255058	-80.734691	0.0039	0.000	0	Pipeline/ Workspace	Temporary		Field	070
199	sdoo848	Intermittent	Doddridge	39.252302	-80.732786	0.0023	0.000	5	Access Road	Temporary		Field	070
200	sdog073	Intermittent	Doddridge	39.2515	-80.732999	0.0039	0.000	7	Access Road	Temporary		Field	070, 071, 072, 233, 234
201	sdoo847	Intermittent	Doddridge	39.25076	-80.733557	0.0006	0.000	5	Access Road	Temporary		Field	070, 071
202	sdog073	Intermittent	Doddridge	39.250395	-80.734015	0.0007	0.000	3	Access Road	Temporary		Field	070, 071, 072, 233, 234
203	sdoo846	Ephemeral	Doddridge	39.250049	-80.734376	0.0006	0.000	2	Access Road	Temporary		Field	071
204	sdoo845	Ephemeral	Doddridge	39.249826	-80.734876	0.0041	0.000	6	Access Road	Temporary		Field	071
205	sdog046	Ephemeral	Doddridge	39.252175	-80.738884	0.0107	0.000	66	Pipeline/ Workspace	Temporary		Field	070, 073
206	sdog073	Intermittent	Doddridge	39.249743	-80.736288	0.0024	0.000	106	Access Road	Temporary		Field	070, 071, 072, 233, 234
206	sdoo844	Intermittent	Doddridge	39.249771	-80.736311	0.0015	0.000	65	Access Road	Temporary		Field	071
207	sdog043	Intermittent	Doddridge	39.251803	-80.739555	0.0018	0.000	7	Pipeline/ Workspace	Temporary		Field	070, 071, 72
208	sdoo826	Ephemeral	Doddridge	39.248938	-80.738563	0.0014	0.000	60	Access Road	Temporary		Field	071
209	sdoo824	Ephemeral	Doddridge	39.248112	-80.740728	0.0012	0.000	2	Access Road	Temporary		Field	071, 072
210	sdoo825	Ephemeral	Doddridge	39.24844	-80.739439	0.0006	0.000	2	Access Road	Temporary		Field	071, 072
211	sdoo828	Ephemeral	Doddridge	39.245931	-80.744334	0.0004	0.000	2	Access Road	Temporary		Field	072, 073
211	sdoo829	Ephemeral	Doddridge	39.24592	-80.744382	0.0002	0.000	1	Access Road	Temporary		Field	072, 073
212	sdog073	Intermittent	Doddridge	39.246887	-80.742291	0.0025	0.000	5	Access Road	Temporary		Field	070, 071, 072, 233, 234

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213	sdoo830	Ephemeral	Doddridge	39.245782	-80.744688	0.00001	0.000	0	Access Road	Temporary		Field	072, 073
214	sdoo831	Ephemeral	Doddridge	39.245532	-80.745146	0.0009	0.000	1	Access Road	Temporary		Field	072, 073
215	sdoo832	Ephemeral	Doddridge	39.245573	-80.744965	0.0001	0.000	1	Access Road	Temporary		Field	072, 073
216	sdoo833	Ephemeral	Doddridge	39.244598	-80.746039	0.0012	0.000	2	Access Road	Temporary		Field	072, 073
217	sdoo834	Ephemeral	Doddridge	39.244554	-80.746134	0.0004	0.000	1	Access Road	Temporary		Field	072, 073
218	sdoo836	Ephemeral	Doddridge	39.24403	-80.746873	0.0006	0.000	2	Access Road	Temporary		Field	072, 073
219	sdoo840	Ephemeral	Doddridge	39.242562	-80.748368	0.0001	0.000	1	Access Road	Temporary		Field	073
220	sdoo838	Ephemeral	Doddridge	39.242908	-80.747525	0.0006	0.000	2	Access Road	Temporary		Field	073
221	sdoo841	Ephemeral	Doddridge	39.242956	-80.748952	0.0001	0.000	1	Access Road	Temporary		Field	073
222	sdoo837	Ephemeral	Doddridge	39.243378	-80.747386	0.000	0.000	1	Access Road	Temporary		Field	073
223	sdoo842	Ephemeral	Doddridge	39.243488	-80.749297	0.0008	0.000	3	Access Road	Temporary		Field	073
223	sdoo843	Ephemeral	Doddridge	39.243498	-80.749244	0.0001	0.000	1	Access Road	Temporary		Field	072, 073
224	sdog537	Perennial	Doddridge	39.245443	-80.757988	0.0194	0.000	75	Pipeline/ Workspace	Temporary		Field	074
225	sdog538	Ephemeral	Doddridge	39.244624	-80.758287	0.0012	0.000	2	Access Road	Temporary		Field	074
226	sdog537	Perennial	Doddridge	39.243408	-80.758171	0.0114	0.000	12	Access Road	Temporary		Field	074
227	sdog211	Intermittent	Doddridge	39.242957	-80.758327	0.0057	0.000	6	Access Road	Temporary		Field	074
228	sdog537	Perennial	Doddridge	39.242816	-80.758467	0.004	0.000	10	Access Road	Temporary		Field	074
229	sdog543	Ephemeral	Doddridge	39.243885	-80.761646	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	074
230	sdog539	Intermittent	Doddridge	39.241447	-80.762482	0.0049	0.000	5	Access Road	Temporary		Field	074
231	sdog539	Intermittent	Doddridge	39.242215	-80.763713	0.0059	0.000	24	Pipeline/ Workspace	Temporary		Field	074
232	sdog539	Intermittent	Doddridge	39.242663	-80.764209	0.0047	0.000	5	Access Road	Temporary		Field	074
233	sdog541	Intermittent	Doddridge	39.240646	-80.764833	0.0022	0.000	9	Pipeline/ Workspace	Temporary		Field	074
233	wdog502e	PEM	Doddridge	39.240669	-80.764830	0.025	0.000	63	Pipeline/ Workspace	Temporary		Field	074

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234	sdog201	Ephemeral	Doddridge	39.240424	-80.76435	0.0003	0.000	1	Access Road	Temporary		Field	074
235	sdoi203	Intermittent	Doddridge	39.238849	-80.76538	0.007	0.000	29	Pipeline/ Workspace	Temporary		Field	074, 075
236	sdoi204	Perennial	Doddridge	39.238709	-80.764842	0.000	0.000	0	Access Road - existing	Temporary		Field	074, 075
237	sdoi205	Ephemeral	Doddridge	39.238075	-80.765451	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	074, 075
238	sdoi204	Perennial	Doddridge	39.237717	-80.764923	0.000	0.000	0	Access Road - existing	Temporary		Field	074, 075
239	sdoo310	Ephemeral	Doddridge	39.223671	-80.782122	0.0021	0.000	3	Access Road	Temporary		Field	077
240	sdoo308	Ephemeral	Doddridge	39.223701	-80.782471	0.0005	0.000	2	Access Road	Temporary		Field	077
241	sdoo309	Ephemeral	Doddridge	39.223656	-80.782622	0.0001	0.000	1	Access Road	Temporary		Field	077
242	sdoo311	Ephemeral	Doddridge	39.221966	-80.782298	0.0018	0.000	9	Pipeline/ Workspace	Temporary		Field	077, 079
243	sdoo308	Ephemeral	Doddridge	39.223893	-80.783537	0.001	0.000	3	Access Road	Temporary		Field	077
244	sdoo308	Ephemeral	Doddridge	39.223829	-80.783024	0.0038	0.000	11	Access Road	Temporary		Field	077
245	sdoo313	Intermittent	Doddridge	39.230262	-80.791575	0.005	0.000	5	Access Road	Temporary		Field	078
246	wdoo301e	PEM	Doddridge	39.221764	-80.782697	0.004	0.000	0	Pipeline/ Workspace	Temporary		Field	079
246	sdog040	Intermittent	Doddridge	39.221626	-80.782695	0.0115	0.000	47	Pipeline/ Workspace	Temporary		Field	079
247	sdoo307	Intermittent	Doddridge	39.223274	-80.786101	0.0035	0.000	5	Access Road	Temporary		Field	076, 078
247	sdoh002	Intermittent	Doddridge	39.184399	-80.852563	0.0112	0.000	17	Pipeline/ Workspace	Temporary		Field	089
248	sdoo312	Intermittent	Doddridge	39.226333	-80.789756	0.0046	0.000	5	Access Road	Temporary		Field	077, 078
249	sdoo302	Intermittent	Doddridge	39.216336	-80.790822	0.0067	0.000	25	Pipeline/ Workspace	Temporary		Field	079, 080
250	sdoi311	Ephemeral	Doddridge	39.205637	-80.790823	0.0007	0.000	0	Access Road	Temporary		Field	081
251	sdoi312	Intermittent	Doddridge	39.207194	-80.791078	0.0017	0.000	0	Access Road	Temporary		Field	081
252	sdon818	Ephemeral	Doddridge	39.204287	-80.796824	0.0006	0.000	0	Access Road	Temporary		Field	081
253	sdon817	Ephemeral	Doddridge	39.203981	-80.796951	0.0001	0.000	0	Access Road	Temporary		Field	081

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254	sdon816	Ephemeral	Doddridge	39.203179	-80.797016	0.0006	0.000	0	Access Road	Temporary		Field	081
255	sdon819	Perennial	Doddridge	39.202459	-80.79581	0.0034	0.000	14	Pipeline/ Workspace	Temporary		Field	081
255	sdon820	Ephemeral	Doddridge	39.202427	-80.795708	0.0020	0.000	7	Pipeline/ Workspace	Temporary		Field	081
256	sdon822	Ephemeral	Doddridge	39.202199	-80.795916	0.0057	0.000	55	Pipeline/ Workspace	Temporary		Field	081
256	sdon821	Ephemeral	Doddridge	39.202177	-80.795761	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	081
257	sdon823	Ephemeral	Doddridge	39.194252	-80.802719	0.0004	0.000	0	Access Road	Temporary		Field	082, 083, 084
258	sdon824	Perennial	Doddridge	39.192923	-80.801756	0.0086	0.000	26	Pipeline/ Workspace	Temporary		Field	082, 083, 084, 085
259	sdon834	Ephemeral	Doddridge	39.190852	-80.810728	0.0025	0.000	13	Pipeline/ Workspace	Temporary		Field	085
260	sdon825	Ephemeral	Doddridge	39.189707	-80.814169	0.0005	0.000	0	Access Road	Temporary		Field	085, 086
261	sdon826	Ephemeral	Doddridge	39.191401	-80.81758	0.0011	0.000	5	Pipeline/ Workspace	Temporary		Field	085, 086
262	sdon840	Intermittent	Doddridge	39.192282	-80.82427	0.0036	0.000	0	Pipeline/ Workspace	Temporary		Field	086
263	sdon836	Ephemeral	Doddridge	39.191071	-80.834102	0.0014	0.000	6	Pipeline/ Workspace	Temporary		Field	087
264	sdon837	Intermittent	Doddridge	39.190969	-80.836168	0.0026	0.000	11	Pipeline/ Workspace	Temporary		Field	087, 088
265	sdoi306	Intermittent	Doddridge	39.192232	-80.83948	0.0012	0.000	5	Access Road	Temporary		Field	087, 088
265	wdoi304e	PEM	Doddridge	39.192290	-80.839440	0.006	0.000	0	Access Road	Temporary		Field	087, 088
266	wdoi303e	PEM	Doddridge	39.193045	-80.839724	0.025	0.000	0	Access Road	Temporary		Field	087, 088
267	sdoi304	Ephemeral	Doddridge	39.193398	-80.840004	0.0007	0.000	2	Access Road	Temporary		Field	087, 088
268	sdoi307	Ephemeral	Doddridge	39.190194	-80.838754	0.0011	0.000	4	Access Road	Temporary		Field	087, 088
269	sdoh012	Ephemeral	Doddridge	39.189381	-80.839526	0.003	0.000	12	Pipeline/ Workspace	Temporary		Field	087, 088
270	sdoh011	Ephemeral	Doddridge	39.186646	-80.846731	0.0022	0.000	5	Pipeline/ Workspace	Temporary		Field	088, 089
271	sdoh008	Intermittent	Doddridge	39.185348	-80.849858	0.0073	0.000	30	Pipeline/ Workspace	Temporary		Field	088, 089
272	sdoh008	Intermittent	Doddridge	39.184417	-80.849959	0.0039	0.000	7	Access Road	Temporary		Field	088, 089
272	sdoo814	Ephemeral	Doddridge	39.184317	-80.850069	0.0035	0.000	5	Access Road	Temporary		Field	089

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273	sdoh001	Ephemeral	Doddridge	39.184634	-80.851849	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	088, 089
274	sdoh004	Ephemeral	Doddridge	39.184506	-80.852753	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	089
275	sdoo816	Ephemeral	Doddridge	39.182595	-80.852058	0.0006	0.000	2	Access Road	Temporary		Field	089
276	sdoo816	Ephemeral	Doddridge	39.182603	-80.852439	0.0038	0.000	11	Access Road	Temporary		Field	089
277	sdoo817	Ephemeral	Doddridge	39.18323	-80.853618	0.0011	0.000	4	Access Road	Temporary		Field	089
278	srih050	Ephemeral	Ritchie	39.183749	-80.857585	0.0024	0.000	10	Pipeline/ Workspace	Temporary		Field	089
279	srih045	Intermittent	Ritchie	39.179982	-80.863833	0.0022	0.000	9	Pipeline/ Workspace	Temporary		Field	090
280	srio310	Ephemeral	Ritchie	39.16955	-80.872671	0.0012	0.000	5	Pipeline/ Workspace	Temporary		Field	091
280	srio313	Intermittent	Ritchie	39.169713	-80.872346	0.0055	0.000	22	Pipeline/ Workspace	Temporary		Field	091
281	srih039	Intermittent	Ritchie	39.167081	-80.879093	0.005	0.000	22	Pipeline/ Workspace	Temporary		Field	092
281	srih040	Intermittent	Ritchie	39.167129	-80.878813	0.004	0.000	18	Pipeline/ Workspace	Temporary		Field	092
282	srio316	Ephemeral	Ritchie	39.167197	-80.885314	0.0001	0.000	1	Access Road	Temporary		Field	092
283	srig016	Ephemeral	Ritchie	39.155781	-80.896609	0.003	0.000	13	Pipeline/ Workspace	Temporary		Field	093, 094
283	wrig003e	PEM	Ritchie	39.155775	-80.896580	0.030	0.000	42	Pipeline/ Workspace	Temporary		Field	093, 094
284	srig015	Ephemeral	Ritchie	39.154527	-80.897629	0.0048	0.000	19	Pipeline/ Workspace	Temporary		Field	094
285	srig022	Perennial	Ritchie	39.151223	-80.900747	0.0391	0.000	129	Pipeline/ Workspace	Temporary		Field	094
286	wrig006e	PEM	Ritchie	39.146705	-80.908600	0.005	0.000	0	Workspace	Temporary		Field	095
287	srio833	Intermittent	Ritchie	39.13934	-80.921302	0.0102	0.000	0	Access Road	Temporary		Field	095, 096
288	srio832	Ephemeral	Ritchie	39.140288	-80.92118	0.0002	0.000	0	Access Road	Temporary		Field	096
289	srio833	Intermittent	Ritchie	39.138534	-80.921771	0.0074	0.000	0	Access Road	Temporary		Field	095, 096
290	srio833	Intermittent	Ritchie	39.137997	-80.922072	0.0032	0.000	0	Access Road	Temporary		Field	095, 096
291	srio833	Intermittent	Ritchie	39.138161	-80.922	0.0004	0.000	3	Access Road	Temporary		Field	095, 096
292	srih031	Perennial	Ritchie	39.141532	-80.931198	0.0576	0.000	237	Pipeline/ Workspace	Temporary		Field	096
293	srih023	Intermittent	Ritchie	39.142062	-80.934657	0.006	0.000	26	Pipeline/ Workspace	Temporary		Field	096, 097, 098

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294	srih030	Ephemeral	Ritchie	39.141216	-80.935362	0.0035	0.000	2	Access Road	Temporary		Field	096
295	srih029	Ephemeral	Ritchie	39.141713	-80.935686	0.000	0.000	1	Access Road	Temporary		Field	096
296	srih023	Intermittent	Ritchie	39.141507	-80.93606	0.0036	0.000	5	Access Road	Temporary		Field	096, 097, 098
297	srih023	Intermittent	Ritchie	39.142747	-80.939857	0.0043	0.000	18	Pipeline/ Workspace	Temporary		Field	096, 097, 098
297	srih022	Ephemeral	Ritchie	39.142801	-80.940052	0.0033	0.000	14	Pipeline/ Workspace	Temporary		Field	097, 098
298	srih009	Intermittent	Ritchie	39.141166	-80.945779	0.0044	0.000	18	Pipeline/ Workspace	Temporary		Field	097
298	srih010	Intermittent	Ritchie	39.141248	-80.946039	0.0055	0.000	16	Pipeline/ Workspace	Temporary		Field	097
299	srih012	Ephemeral	Ritchie	39.140404	-80.949246	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	097
299	srih013	Intermittent	Ritchie	39.140501	-80.949105	0.0072	0.000	16	Pipeline/ Workspace	Temporary		Field	097
300	srih011	Ephemeral	Ritchie	39.139994	-80.949534	0.0038	0.000	0	Workspace	Temporary		Field	097
301	srio319	Ephemeral	Ritchie	39.118221	-80.978129	0.0068	0.000	10	Access Road	Temporary		Field	101
302	srio810	Ephemeral	Ritchie	39.11753	-80.982581	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	101
303	srig030	Perennial	Ritchie	39.116277	-80.988335	0.0158	0.000	67	Pipeline/ Workspace	Temporary		Field	101, 102
303	wrig007e	PEM	Ritchie	39.116380	-80.988195	0.125	0.000	243	Pipeline/ Workspace	Temporary		Field	101, 102
304	srif307	Ephemeral	Ritchie	39.115187	-80.988361	0.0003	0.000	1	Access Road	Temporary		Field	101, 102
305	wrin800e	PEM	Ritchie	39.111407	-80.999800	0.056	0.000	72	Pipeline/ Workspace	Temporary		Field	102, 103, 104
306	srin813	Ephemeral	Ritchie	39.114025	-80.99912	0.0002	0.000	1	Access Road	Temporary		Field	102, 103
307	srin812	Perennial	Ritchie	39.114126	-80.999672	0.0081	0.000	11	Access Road	Temporary		Field	102, 103
308	srin804	Perennial	Ritchie	39.111751	-81.000883	0.0069	0.000	59	Pipeline/ Workspace	Temporary		Field	102, 103, 104
309	srin810	Ephemeral	Ritchie	39.11491	-81.001418	0.0006	0.000	2	Access Road	Temporary		Field	103
310	srin809	Ephemeral	Ritchie	39.115525	-81.002648	0.004	0.000	12	Access Road	Temporary		Field	103
311	srin808	Ephemeral	Ritchie	39.116056	-81.003098	0.0024	0.000	7	Access Road	Temporary		Field	103
312	srin808	Ephemeral	Ritchie	39.116468	-81.003261	0.0001	0.000	1	Access Road	Temporary		Field	103
313	srin806	Ephemeral	Ritchie	39.116541	-81.003988	0.0013	0.000	4	Access Road	Temporary		Field	103

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314	srin807	Ephemeral	Ritchie	39.11657	-81.003585	0.0008	0.000	5	Access Road	Temporary		Field	103
315	srii802	Perennial	Ritchie	39.111637	-81.007268	0.0031	0.000	27	Pipeline/ Workspace	Temporary		Field	103, 104
316	srii800	Ephemeral	Ritchie	39.10905	-81.008888	0.0007	0.000	2	Access Road	Temporary		Field	104
317	srio318	Ephemeral	Ritchie	39.107548	-81.005399	0.001	0.000	0	Access Road	Temporary		Field	104
318	sric042	Intermittent	Ritchie	39.107661	-81.005441	0.0004	0.000	0	Access Road	Temporary		Field	104
319	wric019e	PEM	Ritchie	39.105375	-81.010186	0.011	0.000	17	Pipeline/ Workspace	Temporary		Field	104
320	srif304	Intermittent	Ritchie	39.104098	-81.012244	0.0032	0.000	13	Pipeline/ Workspace	Temporary		Field	104, 105
321	wrif302e	PEM	Ritchie	39.103884	-81.014907	0.603	0.000	928	Pipeline/ Workspace	Temporary		Field	104, 105
321	sric039	Perennial	Ritchie	39.103866	-81.015637	0.0371	0.000	153	Pipeline/ Workspace	Temporary		Field	104, 105
322	wric016e	PEM	Ritchie	39.103874	-81.016737	0.004	0.000	0	Workspace	Temporary		Field	105
323	wrif303e	PEM	Ritchie	39.103500	-81.020289	0.035	0.000	0	Workspace	Temporary		Field	105
324	wrif304e	PEM	Ritchie	39.103537	-81.021265	0.327	0.000	114	Pipeline/ Workspace	Temporary		Field	105
325	sric038	Ephemeral	Ritchie	39.103584	-81.022487	0.0034	0.000	14	Pipeline/ Workspace	Temporary		Field	105
326	sric037	Ephemeral	Ritchie	39.104231	-81.024632	0.0033	0.000	3	Access Road	Temporary		Field	105
327	sric035	Perennial	Ritchie	39.097632	-81.030396	0.0161	0.000	66	Pipeline/ Workspace	Temporary		Field	106
327	sric036	Ephemeral	Ritchie	39.09799	-81.029584	0.0071	0.000	35	Pipeline/ Workspace	Temporary		Field	106
328	sric033	Ephemeral	Ritchie	39.096835	-81.031698	0.0046	0.000	20	Pipeline/ Workspace	Temporary		Field	106
329	sric030	Intermittent	Ritchie	39.091332	-81.036105	0.0017	0.000	2	Access Road	Temporary		Field	107
329	sric030	Intermittent	Ritchie	39.091589	-81.036435	0.0047	0.000	7	Access Road	Temporary		Field	107
329	sric030	Intermittent	Ritchie	39.091752	-81.036611	0.0006	0.000	4	Access Road	Temporary		Field	107
329	sric030	Intermittent	Ritchie	39.091904	-81.036765	0.0062	0.000	25	Pipeline/ Workspace	Temporary		Field	107
329	srif303	Ephemeral	Ritchie	39.091425	-81.036311	0.0017	0.000	5	Access Road	Temporary		Field	107
329	srif303	Ephemeral	Ritchie	39.091505	-81.036441	0.0004	0.000	1	Access Road	Temporary		Field	107
329	wric010e	PEM	Ritchie	39.091725	-81.036631	0.019	0.000	18	Pipeline/ Workspace	Temporary		Field	107

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329	wric010e	PEM	Ritchie	39.091725	-81.036631	0.043	0.000	0	Access Road	Temporary		Field	107
330	sric028	Intermittent	Ritchie	39.089964	-81.04044	0.0037	0.000	15	Pipeline/ Workspace	Temporary		Field	107
331	sric027	Ephemeral	Ritchie	39.089029	-81.043275	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	107
332	sric025	Ephemeral	Ritchie	39.089001	-81.043651	0.0049	0.000	21	Pipeline/ Workspace	Temporary		Field	107
332	sric026	Ephemeral	Ritchie	39.08907	-81.04376	0.0009	0.000	8	Pipeline/ Workspace	Temporary		Field	107
333	sric023	Ephemeral	Ritchie	39.088762	-81.04475	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	107
334	sric022	Ephemeral	Ritchie	39.088415	-81.045852	0.0008	0.000	0	Workspace	Temporary		Field	107
335	sric017	Intermittent	Ritchie	39.086921	-81.04772	0.0048	0.000	5	Access Road	Temporary		Field	107, 108
336	sric019	Intermittent	Ritchie	39.087924	-81.048654	0.0189	0.000	77	Pipeline/ Workspace	Temporary		Field	107, 108
337	sric018	Ephemeral	Ritchie	39.085681	-81.053631	0.0001	0.000	1	Access Road	Temporary		Field	108
338	sric018	Ephemeral	Ritchie	39.085698	-81.054596	0.0011	0.000	4	Pipeline/ Workspace	Temporary		Field	108
339	sric018	Ephemeral	Ritchie	39.085256	-81.055923	0.0006	0.000	2	Pipeline/ Workspace	Temporary		Field	108
340	sric018	Ephemeral	Ritchie	39.083432	-81.058518	0.0009	0.000	2	Access Road	Temporary		Field	108
341	sric017	Perennial	Ritchie	39.085148	-81.060101	0.0109	0.000	38	Pipeline/ Workspace	Temporary		Field	108, 109
342	wric009e	PEM	Ritchie	39.085156	-81.060421	0.018	0.000	31	Pipeline/ Workspace	Temporary		Field	108, 109
343	sric016	Ephemeral	Ritchie	39.085097	-81.06168	0.0051	0.000	20	Pipeline/ Workspace	Temporary		Field	108, 109
344	sric016	Ephemeral	Ritchie	39.086262	-81.065722	0.002	0.000	0	Workspace	Temporary		Field	109
345	sric016	Ephemeral	Ritchie	39.085775	-81.066187	0.0075	0.000	0	Workspace	Temporary		Field	109
346	sric014	Ephemeral	Ritchie	39.084847	-81.066875	0.0002	0.000	0	Workspace	Temporary		Field	109
347	sric014	Ephemeral	Ritchie	39.084897	-81.067036	0.0001	0.000	0	Workspace	Temporary		Field	109
348	sric014	Ephemeral	Ritchie	39.084428	-81.067406	0.0014	0.000	0	Workspace	Temporary		Field	109
349	sric013	Ephemeral	Ritchie	39.083564	-81.067836	0.0024	0.000	11	Pipeline/ Workspace	Temporary		Field	109
350	wric007e	PEM	Ritchie	39.083418	-81.068282	0.012	0.000	62	Pipeline/ Workspace	Temporary		Field	109
351	wric006e	PEM	Ritchie	39.083233	-81.068500	0.000	0.000	0	Pipeline/ Workspace	HDD		Field	109
352	sric012	Perennial	Ritchie	39.081618	-81.070609	0.000	0.000	0	Pipeline/ Workspace	HDD		Field	109

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353	srin815	Ephemeral	Ritchie	39.08079	-81.071697	0.0003	0.000	0	Pipeline/ Workspace	Temporary		Field	109
354	srik311	Ephemeral	Ritchie	39.07495	-81.071566	0.001	0.000	0	Access Road	Temporary		Field	110
355	srig202	Ephemeral	Ritchie	39.075518	-81.076383	0.0045	0.000	18	Pipeline/ Workspace	Temporary		Field	110
356	sric007	Intermittent	Ritchie	39.071875	-81.076721	0.006	0.000	24	Pipeline/ Workspace	Temporary		Field	110, 111
357	sric007	Intermittent	Ritchie	39.072282	-81.078017	0.0036	0.000	5	Access Road	Temporary		Field	110, 111
358	sric010	Ephemeral	Ritchie	39.07113	-81.078231	0.0021	0.000	6	Pipeline/ Workspace	Temporary		Field	110, 111
359	srio330	Ephemeral	Ritchie	39.070962	-81.079074	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	110, 111
360	srik310	Ephemeral	Ritchie	39.065749	-81.090409	0.0008	0.000	3	Access Road	Temporary		Field	111, 112
361	srik308	Ephemeral	Ritchie	39.064748	-81.09025	0.0006	0.000	2	Access Road	Temporary		Field	111, 112
362	sric001	Perennial	Ritchie	39.06189	-81.091635	0.0364	0.000	152	Pipeline/ Workspace	Temporary		Field	112
363	sric002	Ephemeral	Ritchie	39.061475	-81.094583	0.0013	0.000	0	Pipeline/ Workspace	Temporary		Field	112
364	srio320	Ephemeral	Ritchie	39.060077	-81.096642	0.0001	0.000	1	Access Road	Temporary		Field	112
365	srig501	Ephemeral	Ritchie	39.057472	-81.096968	0.0029	0.000	9	Access Road	Temporary		Field	111, 112
365	srig503	Ephemeral	Ritchie	39.058003	-81.097135	0.0062	0.000	18	Access Road	Temporary		Field	112
365	srio321	Ephemeral	Ritchie	39.057689	-81.097005	0.0013	0.000	2	Access Road	Temporary		Field	111, 112
365	srio322	Ephemeral	Ritchie	39.057303	-81.096946	0.0017	0.000	2	Access Road	Temporary		Field	111, 112
366	srio323	Ephemeral	Ritchie	39.056755	-81.096509	0.0006	0.000	2	Access Road	Temporary		Field	113
367	sric005	Intermittent	Ritchie	39.057752	-81.101255	0.0148	0.000	65	Pipeline/ Workspace	Temporary		Field	112
368	sric006	Ephemeral	Ritchie	39.057379	-81.101413	0.0059	0.000	23	Pipeline/ Workspace	Temporary		Field	112, 113
369	srig504	Ephemeral	Ritchie	39.056085	-81.095808	0.0001	0.000	1	Access Road	Temporary		Field	113
369	srio324	Ephemeral	Ritchie	39.056096	-81.095719	0.0032	0.000	5	Access Road	Temporary		Field	113
369	srio324	Ephemeral	Ritchie	39.055851	-81.095301	0.0077	0.000	11	Access Road	Temporary		Field	113
369	srio325	Ephemeral	Ritchie	39.055527	-81.094833	0.0126	0.000	12	Access Road	Temporary		Field	113

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369	srio326	Intermittent	Ritchie	39.055364	-81.094694	0.0125	0.000	11	Access Road	Temporary		Field	113
370	srio326	Intermittent	Ritchie	39.055144	-81.094338	0.001	0.000	3	Access Road	Temporary		Field	113
371	srio327	Intermittent	Ritchie	39.053055	-81.09493	0.0013	0.000	3	Access Road	Temporary		Field	113
372	srig002	Intermittent	Ritchie	39.051497	-81.113072	0.01	0.000	42	Pipeline/ Workspace	Temporary		Field	114
373	srio329	Ephemeral	Ritchie	39.044884	-81.107872	0.0001	0.000	1	Access Road	Temporary		Field	114
374	srig506	Ephemeral	Calhoun	39.034014	-81.113872	0.0007	0.000	3	Access Road	Temporary		Field	116
375	srig507	Ephemeral	Calhoun	39.035101	-81.112511	0.0007	0.000	2	Access Road	Temporary		Field	116
376	srig508	Ephemeral	Calhoun	39.040025	-81.115826	0.0023	0.000	2	Access Road	Temporary		Field	116, 117
377	srig007	Intermittent	Ritchie	39.04688	-81.124388	0.009	0.000	42	Pipeline/ Workspace	Temporary		Field	115, 117
377	wrig001e	PEM	Ritchie	39.046977	-81.124285	0.003	0.000	0	Pipeline/ Workspace	Temporary		Field	115, 117
378	srig010	Ephemeral	Ritchie	39.046757	-81.125162	0.0016	0.000	8	Pipeline/ Workspace	Temporary		Field	115, 117
379	srio821	Ephemeral	Calhoun	39.040337	-81.126085	0.0001	0.000	1	Access Road	Temporary		Field	117
380	srik307	Ephemeral	Calhoun	39.041196	-81.1381	0.0007	0.000	6	Pipeline/ Workspace	Temporary		Field	118
381	srih032	Intermittent	Calhoun	39.04113	-81.138397	0.0024	0.000	10	Pipeline/ Workspace	Temporary		Field	118
382	srik305	Ephemeral	Calhoun	39.040487	-81.142084	0.0002	0.000	0	White Oak CS	Temporary		Field	118
383	srio804	Ephemeral	Calhoun	39.042304	-81.142013	0.0017	0.000	3	Access Road	Temporary		Field	118
383	srio805	Ephemeral	Calhoun	39.04221	-81.141978	0.0013	0.000	2	Access Road	Temporary		Field	118
383	srio805	Ephemeral	Calhoun	39.042307	-81.141975	0.0002	0.000	1	Access Road	Temporary		Field	118
384	srik306	Ephemeral	Calhoun	39.040503	-81.142785	0.000	0.0034	11	White Oak CS	Permanent	ILF	Field	118
384	srik306	Ephemeral	Calhoun	39.040503	-81.142785	0.0009	0.000	2	White Oak CS	Temporary		Field	118
384	wrih007e	PEM	Calhoun	39.040583	-81.142985	0.000	0.0093	0	White Oak CS	Permanent	ILF	Field	118
385	srik301	Ephemeral	Calhoun	39.041702	-81.142794	0.000	0.0047	8	White Oak CS	Permanent	ILF	Field	118
385	srik302	Ephemeral	Calhoun	39.041714	-81.142704	0.000	0.001	1	White Oak CS	Permanent	ILF	Field	118

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386	scla001	Ephemeral	Calhoun	39.036676	-81.144702	0.0009	0.000	7	Pipeline/ Workspace	Temporary		Field	118, 119
387	scla002	Ephemeral	Calhoun	39.036464	-81.144969	0.0003	0.000	3	Pipeline/ Workspace	Temporary		Field	119
388	scla023	Perennial	Calhoun	39.031725	-81.152923	0.0042	0.000	14	Access Road	Temporary		Field	119, 120
389	wcla003e	PEM	Calhoun	39.031788	-81.153209	0.007	0.000	0	Workspace	Temporary		Field	119
389	scla023	Perennial	Calhoun	39.031948	-81.153197	0.0041	0.000	17	Pipeline/ Workspace	Temporary		Field	119, 120
390	sclk302	Ephemeral	Calhoun	39.030907	-81.152744	0.0009	0.000	2	Access Road	Temporary		Field	119, 120
391	wclk301e	PEM	Calhoun	39.030357	-81.152572	0.004	0.000	0	Access Road	Temporary		Field	119, 120
391	scla023	Perennial	Calhoun	39.03036	-81.152606	0.0049	0.000	11	Access Road	Temporary		Field	119, 120
392	scla018	Intermittent	Calhoun	39.028619	-81.158818	0.0061	0.000	25	Pipeline/ Workspace	Temporary		Field	120
392	scla019	Ephemeral	Calhoun	39.028688	-81.158619	0.0012	0.000	4	Pipeline/ Workspace	Temporary		Field	120
393	scla017	Ephemeral	Calhoun	39.028035	-81.159834	0.004	0.000	17	Pipeline/ Workspace	Temporary		Field	120
394	scla002	Ephemeral	Calhoun	39.026659	-81.162006	0.0028	0.000	11	Pipeline/ Workspace	Temporary		Field	120
395	scla011	Ephemeral	Calhoun	39.025855	-81.163057	0.0034	0.000	12	Pipeline/ Workspace	Temporary		Field	120
396	scla005	Perennial	Calhoun	39.023049	-81.166685	0.0053	0.000	16	Pipeline/ Workspace	Temporary		Field	120, 122
397	sclf304	Ephemeral	Wirt	39.022679	-81.174582	0.0002	0.000	1	Access Road	Temporary		Field	121, 122
398	scla007	Intermittent	Calhoun	39.019961	-81.170528	0.0083	0.000	28	Pipeline/ Workspace	Temporary		Field	122
398	scla008	Ephemeral	Calhoun	39.019671	-81.170815	0.0018	0.000	7	Pipeline/ Workspace	Temporary		Field	122
399	swif308	Ephemeral	Wirt	39.02362	-81.178388	0.0001	0.000	1	Access Road	Temporary		Field	121
400	swif304	Ephemeral	Wirt	39.02477	-81.183735	0.0002	0.000	1	Access Road	Temporary		Field	121
401	wcla001e	PEM	Calhoun	39.012147	-81.179698	0.030	0.000	45	Pipeline/ Workspace	Temporary		Field	123
401	wcla001e	PEM	Calhoun	39.012147	-81.179698	0.010	0.000	0	Access Road	Temporary		Field	123
401	scla016	Perennial	Calhoun	39.012116	-81.179643	0.0168	0.000	80	Pipeline/ Workspace	Temporary		Field	123, 124
402	scla016	Perennial	Calhoun	39.013092	-81.179894	0.002	0.000	11	Access Road	Temporary		Field	123, 124
403	scla016	Perennial	Calhoun	39.013427	-81.180421	0.0035	0.000	9	Access Road	Temporary		Field	123, 124

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404	sclf305	Ephemeral	Calhoun	39.013622	-81.180751	0.0013	0.000	2	Access Road	Temporary		Field	123
405	scla016	Perennial	Calhoun	39.013835	-81.180958	0.0298	0.000	31	Access Road	Temporary		Field	123, 124
406	scla015	Ephemeral	Calhoun	39.012482	-81.182077	0.0028	0.000	16	Pipeline/ Workspace	Temporary		Field	123
407	scla016	Perennial	Calhoun, Wirt	39.015035	-81.182233	0.2034	0.000	171	Access Road	Temporary		Field	123, 124
408	scla016	Perennial	Wirt	39.016767	-81.182637	0.107	0.000	97	Access Road	Temporary		Field	123, 124
409	scla016	Perennial	Wirt	39.017517	-81.182926	0.009	0.000	11	Access Road	Temporary		Field	123, 124
409	scla016	Perennial	Wirt	39.017957	-81.183261	0.0089	0.000	11	Access Road	Temporary		Field	123, 124
410	swif302	Ephemeral	Wirt	39.021652	-81.186184	0.0001	0.000	1	Access Road	Temporary		Field	124
411	swif303	Ephemeral	Wirt	39.022136	-81.185666	0.0001	0.000	1	Access Road	Temporary		Field	124
412	swii007	Ephemeral	Wirt	39.011861	-81.187258	0.0001	0.000	1	Access Road	Temporary		Field	123
413	sclf301	Intermittent	Wirt	39.011137	-81.185549	0.0047	0.000	19	Pipeline/ Workspace	Temporary		Field	123
413	sclf302	Ephemeral	Wirt	39.011162	-81.185542	0.0002	0.000	0	Pipeline/ Workspace	Temporary		Field	123
413	sclf302	Ephemeral	Wirt	39.011042	-81.185545	0.0007	0.000	0	Pipeline/ Workspace	Temporary		Field	123
413	sclf303	Ephemeral	Wirt	39.011493	-81.185392	0.0034	0.000	19	Pipeline/ Workspace	Temporary		Field	123
414	swii009	Ephemeral	Wirt	39.009948	-81.191839	0.0002	0.000	1	Access Road	Temporary		Field	125
415	swif315	Intermittent	Calhoun	39.005105	-81.190909	0.006	0.000	24	Pipeline/ Workspace	Temporary		Field	125
416	swif314	Ephemeral	Wirt	39.003832	-81.193232	0.0008	0.000	4	Pipeline/ Workspace	Temporary		Field	125
417	swii005	Ephemeral	Wirt	39.003288	-81.198003	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	125, 126
418	swif053	Perennial	Wirt	38.999593	-81.210601	0.029	0.000	91	Pipeline/ Workspace	Temporary		Field	126
419	swif050	Ephemeral	Wirt	38.997899	-81.215544	0.0017	0.000	8	Pipeline/ Workspace	Temporary		Field	127
420	swif048	Ephemeral	Wirt	38.997806	-81.216298	0.0005	0.000	4	Pipeline/ Workspace	Temporary		Field	127
420	swif049	Perennial	Wirt	38.997697	-81.216302	0.0082	0.000	47	Pipeline/ Workspace	Temporary		Field	127
421	swig310	Ephemeral	Wirt	39.005206	-81.221732	0.0003	0.000	1	Access Road	Temporary		Field	128

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422	swif045	Ephemeral	Wirt	38.997129	-81.21823	0.001	0.000	4	Pipeline/ Workspace	Temporary		Field	127
422	swif046	Ephemeral	Wirt	38.997131	-81.21815	0.0011	0.000	4	Pipeline/ Workspace	Temporary		Field	127
423	swig311	Ephemeral	Wirt	38.997952	-81.221078	0.0049	0.000	14	Access Road	Temporary		Field	127
424	swig311	Ephemeral	Wirt	38.997238	-81.221394	0.0006	0.000	2	Access Road	Temporary		Field	127
425	swif043	Ephemeral	Wirt	38.996191	-81.223613	0.0013	0.000	9	Pipeline/ Workspace	Temporary		Field	127
426	swif052	Intermittent	Wirt	38.996003	-81.225576	0.0054	0.000	23	Pipeline/ Workspace	Temporary		Field	127
427	swig309	Ephemeral	Wirt	39.005593	-81.227916	0.0008	0.000	3	Access Road	Temporary		Field	128
428	swif051	Ephemeral	Wirt	38.99583	-81.227549	0.001	0.000	4	Pipeline/ Workspace	Temporary		Field	127
429	swig315	Ephemeral	Wirt	39.007667	-81.23009	0.0006	0.000	2	Access Road	Temporary		Field	128
430	swif042	Intermittent	Wirt	38.992525	-81.230852	0.0062	0.000	24	Pipeline/ Workspace	Temporary		Field	129
431	swif041	Ephemeral	Wirt	38.992341	-81.230933	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	129
432	swif039	Ephemeral	Wirt	38.991124	-81.232249	0.0025	0.000	10	Pipeline/ Workspace	Temporary		Field	129
433	swif036	Intermittent	Wirt	38.990779	-81.235805	0.0052	0.000	22	Pipeline/ Workspace	Temporary		Field	129
434	swif038	Ephemeral	Wirt	38.991443	-81.239181	0.0018	0.000	8	Pipeline/ Workspace	Temporary		Field	129
435	swif031	Ephemeral	Wirt	38.991956	-81.241499	0.0061	0.000	32	Pipeline/ Workspace	Temporary		Field	129
436	swik301	Ephemeral	Wirt	38.999049	-81.242853	0.005	0.000	0	Access Road	Temporary		Field	130
437	swif030	Intermittent	Wirt	38.991905	-81.242026	0.0173	0.000	79	Pipeline/ Workspace	Temporary		Field	129, 132
438	swik306	Ephemeral	Wirt	39.003176	-81.244315	0.0006	0.000	0	Access Road	Temporary		Field	131
439	swig333	Ephemeral	Wirt	39.001942	-81.244902	0.0006	0.000	2	Access Road	Temporary		Field	130, 131
440	swik303	Ephemeral	Wirt	39.000373	-81.244685	0.0009	0.000	0	Access Road	Temporary		Field	130
441	swig333	Ephemeral	Wirt	39.00193	-81.244963	0.0002	0.000	1	Access Road	Temporary		Field	130, 131
442	swig333	Ephemeral	Wirt	39.001919	-81.24511	0.0001	0.000	1	Access Road	Temporary		Field	130, 131
443	swig321	Ephemeral	Wirt	39.005982	-81.24584	0.0006	0.000	0	Access Road	Temporary		Field	131

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444	swig333	Ephemeral	Wirt	39.001761	-81.245624	0.0051	0.000	15	Access Road	Temporary		Field	130, 131
445	swig323	Ephemeral	Wirt	39.005012	-81.247794	0.0006	0.000	0	Access Road	Temporary		Field	131
446	swig324	Ephemeral	Wirt	39.004232	-81.249688	0.0006	0.000	0	Access Road	Temporary		Field	131
447	swig331	Ephemeral	Wirt	38.993555	-81.249169	0.0006	0.000	2	Access Road	Temporary		Field	130, 132
448	swig332	Ephemeral	Wirt	38.997876	-81.24999	0.0012	0.000	4	Access Road	Temporary		Field	130
449	swig325	Ephemeral	Wirt	39.004255	-81.250249	0.0008	0.000	0	Access Road	Temporary		Field	131
450	swig326	Ephemeral	Wirt	39.004445	-81.250965	0.0034	0.000	0	Access Road	Temporary		Field	131
451	swig327	Ephemeral	Wirt	39.004659	-81.252308	0.0006	0.000	0	Access Road	Temporary		Field	131
452	swig328	Ephemeral	Wirt	39.005007	-81.254366	0.0019	0.000	0	Access Road	Temporary		Field	131
453	swif027	Intermittent	Wirt	38.988537	-81.252192	0.0033	0.000	13	Pipeline/ Workspace	Temporary		Field	132
454	swif025	Perennial	Wirt	38.98793	-81.259761	0.0105	0.000	44	Pipeline/ Workspace	Temporary		Field	133
455	swig502	Perennial	Wirt	38.983237	-81.262796	0.0163	0.000	12	Access Road	Temporary		Field	134
456	swig316	Ephemeral	Wirt	38.981514	-81.26361	0.0256	0.000	37	Access Road	Temporary		Field	134
457	swig503	Ephemeral	Wirt	38.982381	-81.263204	0.0002	0.000	1	Access Road	Temporary		Field	134
458	swig317	Ephemeral	Wirt	38.982643	-81.264241	0.0002	0.000	1	Access Road	Temporary		Field	134
459	swig318	Ephemeral	Wirt	38.982927	-81.264478	0.0023	0.000	4	Access Road	Temporary		Field	134
459	swig319	Ephemeral	Wirt	38.983012	-81.264528	0.0036	0.000	3	Access Road	Temporary		Field	134
460	wwia001e	PEM	Wirt	38.987698	-81.268071	0.035	0.000	60	Pipeline/ Workspace	Temporary		Field	133
460	swia005	Perennial	Wirt	38.987772	-81.2679	0.0189	0.000	78	Pipeline/ Workspace	Temporary		Field	133
461	swia003	Perennial	Wirt	38.984473	-81.272893	0.0177	0.000	89	Pipeline/ Workspace	Temporary		Field	133, 134
462	swia004	Intermittent	Wirt	38.98424	-81.273123	0.0067	0.000	27	Pipeline/ Workspace	Temporary		Field	133, 134
463	swin810	Ephemeral	Wirt	38.983547	-81.277373	0.0014	0.000	4	Access Road	Temporary		Field	134
464	swia002	Ephemeral	Wirt	38.98199	-81.280464	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	135

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465	swia001	Ephemeral	Wirt	38.981971	-81.281985	0.0019	0.000	7	Pipeline/ Workspace	Temporary		Field	135
466	swig307	Ephemeral	Wirt	38.983796	-81.284205	0.0006	0.000	2	Access Road	Temporary		Field	135
467	swif023	Ephemeral	Wirt	38.983755	-81.284792	0.0017	0.000	5	Pipeline/ Workspace	Temporary		Field	135
468	swig308	Ephemeral	Wirt	38.984704	-81.284113	0.0006	0.000	2	Access Road	Temporary		Field	135
469	swig305	Ephemeral	Wirt	38.985788	-81.284779	0.0006	0.000	2	Access Road	Temporary		Field	135
470	swif022	Ephemeral	Wirt	38.984054	-81.286898	0.0039	0.000	16	Pipeline/ Workspace	Temporary		Field	135
471	swif014	Ephemeral	Wirt	38.979473	-81.299916	0.0025	0.000	10	Pipeline/ Workspace	Temporary		Field	136
472	swoi407	Ephemeral	Wood	39.19075	-81.525715	0.001	0.000	19	Proposed Yard	Temporary		Field	248
473	swif011	Ephemeral	Wirt	38.972992	-81.304163	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	137
474	swif007	Ephemeral	Wirt	38.969671	-81.305987	0.0024	0.000	8	Pipeline/ Workspace	Temporary		Field	137
475	swif005	Ephemeral	Wirt	38.967755	-81.307797	0.0016	0.000	8	Pipeline/ Workspace	Temporary		Field	137
476	swif009	Ephemeral	Wirt	38.968013	-81.309396	0.0015	0.000	5	Access Road	Temporary		Field	137
477	swif004	Intermittent	Wirt	38.967523	-81.309751	0.0018	0.000	8	Pipeline/ Workspace	Temporary		Field	137
478	swif003	Ephemeral	Wirt	38.967314	-81.31021	0.001	0.000	4	Pipeline/ Workspace	Temporary		Field	137
479	swif002	Intermittent	Wirt	38.965557	-81.311414	0.0058	0.000	15	Pipeline/ Workspace	Temporary		Field	137, 138
479	swii202	Ephemeral	Wirt	38.965845	-81.311144	0.0013	0.000	3	Pipeline/ Workspace	Temporary		Field	137, 138
480	wwif001e	PEM	Wirt	38.964334	-81.312347	0.017	0.000	0	Pipeline/ Workspace	Temporary		Field	138
481	swif001	Perennial	Wirt	38.962153	-81.313612	0.000	0.000	0	Pipeline/ Workspace	HDD		Field	138
482	swif058	Intermittent	Wirt	38.961279	-81.314113	0.038	0.000	0	Pipeline/ Workspace	Temporary		Field	138
483	swii306	Ephemeral	Wirt	38.95916	-81.319238	0.0006	0.000	2	Access Road	Temporary		Field	138, 140
484	swii307	Ephemeral	Wirt	38.959455	-81.319953	0.0032	0.000	9	Access Road	Temporary		Field	138, 140
485	swii302	Ephemeral	Wirt	38.961337	-81.321864	0.0007	0.000	3	Access Road	Temporary		Field	138, 140
486	swii302	Ephemeral	Wirt	38.961537	-81.322056	0.0012	0.000	4	Access Road	Temporary		Field	138, 140

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487	swig510	Ephemeral	Wirt	38.952046	-81.317805	0.0006	0.000	2	Access Road	Temporary		Field	139
488	swig511	Ephemeral	Wirt	38.952248	-81.318378	0.0006	0.000	2	Access Road	Temporary		Field	139
489	swig512	Ephemeral	Wirt	38.952694	-81.319424	0.0003	0.000	1	Access Road	Temporary		Field	139
490	swig513	Ephemeral	Wirt	38.95293	-81.319678	0.0006	0.000	2	Access Road	Temporary		Field	139
491	swig514	Ephemeral	Wirt	38.953038	-81.319844	0.0005	0.000	2	Access Road	Temporary		Field	139
492	swig515	Perennial	Wirt	38.961867	-81.323598	0.0396	0.000	0	Access Road	Temporary		Field	138, 140
493	wwin801e	PEM	Wirt	38.961218	-81.324600	0.044	0.000	0	Staging Area	Temporary		Field	138, 140
494	swif057	Intermittent	Wirt	38.957915	-81.326281	0.0067	0.000	27	Pipeline/ Workspace	Temporary		Field	140
495	swii312	Ephemeral	Wirt	38.952774	-81.331292	0.0005	0.000	1	Pipeline/ Workspace	Temporary		Field	141
495	swii313	Ephemeral	Wirt	38.952939	-81.331251	0.0002	0.000	0	Pipeline/ Workspace	Temporary		Field	141
496	swii309	Ephemeral	Wirt	38.951509	-81.332799	0.0008	0.000	0	Pipeline/ Workspace	Temporary		Field	141
497	swii310	Ephemeral	Wirt	38.951313	-81.333917	0.0021	0.000	9	Pipeline/ Workspace	Temporary		Field	141
498	swio812	Ephemeral	Wirt	38.949896	-81.338112	0.0025	0.000	19	Pipeline/ Workspace	Temporary		Field	141
499	swih010	Perennial	Wirt	38.949896	-81.338112	0.0643	0.000	265	Pipeline/ Workspace	Temporary		Field	141
499	swin802	Intermittent	Wirt	38.949552	-81.339024	0.0007	0.000	5	Pipeline/ Workspace	Temporary		Field	141
500	swii316	Intermittent	Wirt	38.94839	-81.34468	0.007	0.000	31	Pipeline/ Workspace	Temporary		Field	141, 142
500	swii318	Ephemeral	Wirt	38.948382	-81.344509	0.0044	0.000	5	Pipeline/ Workspace	Temporary		Field	141, 142
500	swii318	Ephemeral	Wirt	38.948628	-81.344745	0.00005	0.000	0	Access Road	Temporary		Field	141, 142
501	swin814	Intermittent	Wirt	38.949055	-81.345199	0.0012	0.000	5	Access Road	Temporary		Field	141, 142
502	swin816	Ephemeral	Wirt	38.948253	-81.349459	0.0004	0.000	3	Pipeline/ Workspace	Temporary		Field	142
503	swin817	Ephemeral	Wirt	38.948035	-81.349694	0.0003	0.000	3	Pipeline/ Workspace	Temporary		Field	142, 143
504	swin819	Intermittent	Wirt	38.946503	-81.351544	0.0021	0.000	18	Pipeline/ Workspace	Temporary		Field	142, 143
504	swin820	Ephemeral	Wirt	38.946418	-81.351776	0.0029	0.000	26	Pipeline/ Workspace	Temporary		Field	143, 144

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505	swio831	Ephemeral	Wirt	38.943032	-81.354927	0.0006	0.000	2	Access Road	Temporary		Field	143, 144
506	swio829	Ephemeral	Wirt	38.943143	-81.355182	0.0006	0.000	2	Access Road	Temporary		Field	143, 144
506	swio830	Ephemeral	Wirt	38.943191	-81.35526	0.0001	0.000	1	Access Road	Temporary		Field	143, 144
507	swio826	Ephemeral	Wirt	38.943875	-81.356693	0.0007	0.000	2	Access Road	Temporary		Field	143, 144
508	swio828	Ephemeral	Wirt	38.942617	-81.354965	0.0006	0.000	2	Access Road	Temporary		Field	143, 144
509	swio824	Ephemeral	Wirt	38.944897	-81.35877	0.0007	0.000	2	Access Road	Temporary		Field	144
510	swii802	Ephemeral	Wirt	38.942196	-81.355011	0.0003	0.000	2	Access Road	Temporary		Field	143, 144
511	swio820	Ephemeral	Wirt	38.945147	-81.359773	0.0006	0.000	2	Access Road	Temporary		Field	144
512	swio819	Intermittent	Wirt	38.94505	-81.360091	0.0029	0.000	5	Access Road	Temporary		Field	144
513	swio818	Ephemeral	Wirt	38.944094	-81.359356	0.0001	0.000	1	Access Road	Temporary		Field	144
514	swio816	Ephemeral	Wirt	38.943529	-81.358694	0.0001	0.000	1	Access Road	Temporary		Field	144
515	swih007	Perennial	Wirt	38.941019	-81.355503	0.0093	0.000	35	Pipeline/ Workspace	Temporary		Field	143, 144, 145
516	swio814	Ephemeral	Wirt	38.94199	-81.357143	0.00004	0.000	1	Access Road	Temporary		Field	143, 144
517	swih006	Perennial	Wirt	38.939269	-81.357428	0.0131	0.000	45	Pipeline/ Workspace	Temporary		Field	143, 145
518	swih001	Perennial	Wirt	38.919618	-81.384805	0.0068	0.000	28	Pipeline/ Workspace	Temporary		Field	147
519	wroc002e	PEM	Roane	38.909776	-81.394374	0.002	0.000	0	Workspace	Temporary		Field	149
520	sroc002	Perennial	Roane	38.909678	-81.394616	0.0065	0.000	27	Pipeline/ Workspace	Temporary		Field	149
521	sroc030	Perennial	Roane	38.897859	-81.418678	0.0199	0.000	10	Access Road	Temporary		Field	151
522	sroc030	Perennial	Roane	38.897832	-81.418404	0.0399	0.000	152	Pipeline/ Workspace	Temporary		Field	151
523	wrok302e	PEM	Roane	38.887836	-81.427204	0.009	0.000	0	Access Road	Temporary		Field	152
524	srok304	Intermittent	Roane	38.887517	-81.427185	0.0017	0.000	5	Access Road	Temporary		Field	152
525	wrok301e	PEM	Roane	38.887286	-81.427236	0.009	0.000	0	Access Road	Temporary		Field	152
526	sroh002	Perennial	Roane	38.886602	-81.427105	0.0175	0.000	10	Access Road	Temporary		Field	152
527	sroh001	Ephemeral	Roane	38.886286	-81.426955	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	152

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528	wroh001e	PEM	Roane	38.885748	-81.427550	0.100	0.000	248	Pipeline/ Workspace	Temporary		Field	152
529	wroa002	PEM	Roane	38.882312	-81.429901	0.352	0.000	686	Pipeline/ Workspace	Temporary		Field	153
529	sroa006	Ephemeral	Roane	38.88247	-81.429577	0.0019	0.000	7	Pipeline/ Workspace	Temporary		Field	143, 144
529	srog202	Ephemeral	Roane	38.882618	-81.429327	0.0018	0.000	8	Pipeline/ Workspace	Temporary		Field	153
529	wroa002	PFO	Roane	38.882202	-81.429895	0.057	0.000	0	Workspace	Temporary		Field	153
530	sroc029	Perennial	Roane	38.878779	-81.432902	0.0233	0.000	92	Pipeline/ Workspace	Temporary		Field	153
531	sroa005	Ephemeral	Roane	38.877683	-81.434112	0.0065	0.000	21	Pipeline/ Workspace	Temporary		Field	153
532	wroc006e	PEM	Roane	38.875954	-81.438027	0.010	0.000	52	Pipeline/ Workspace	Temporary		Field	153, 154
533	sroa003	Ephemeral	Roane	38.87597	-81.439044	0.0033	0.000	13	Pipeline/ Workspace	Temporary		Field	153, 154
534	wroc005f	PFO	Roane	38.875204	-81.441757	0.008	0.000	0	Workspace	Temporary		Field	154
534	wroc004f	PFO	Roane	38.875335	-81.441877	0.024	0.0388	179	Pipeline/ Workspace	Permanent	ILF	Field	154
534	sroc025	Perennial	Roane	38.875297	-81.441896	0.0069	0.000	35	Pipeline/ Workspace	Temporary		Field	154
535	sroc021	Perennial	Roane	38.873961	-81.453885	0.0054	0.000	25	Pipeline/ Workspace	Temporary		Field	154, 155
536	sroc019	Ephemeral	Roane	38.87388	-81.462029	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	155, 156
537	sroc018	Ephemeral	Roane	38.874381	-81.462742	0.0016	0.000	8	Pipeline/ Workspace	Temporary		Field	155, 156
538	sroc016	Ephemeral	Roane	38.874533	-81.469514	0.0009	0.000	4	Pipeline/ Workspace	Temporary		Field	156
539	srof401	Intermittent	Roane	38.864338	-81.492454	0.0012	0.000	5	Access Road	Temporary		Field	158
540	srog013	Ephemeral	Roane	38.861085	-81.491413	0.0051	0.000	11	Pipeline/ Workspace	Temporary		Field	158
541	srog016	Intermittent	Roane	38.860783	-81.492481	0.0022	0.000	9	Pipeline/ Workspace	Temporary		Field	158
542	srog032	Ephemeral	Roane	38.860774	-81.49278	0.0022	0.000	9	Pipeline/ Workspace	Temporary		Field	158
543	wrof401e	PEM	Roane	38.864204	-81.493164	0.001	0.000	0	Access Road	Temporary		Field	158
544	srof403	Intermittent	Roane	38.864287	-81.494117	0.002	0.000	5	Access Road	Temporary		Field	158
545	srog019	Ephemeral	Roane	38.8609	-81.497492	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	158
546	srog021	Intermittent	Roane	38.860891	-81.498003	0.0038	0.000	15	Pipeline/ Workspace	Temporary		Field	158

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547	srog022	Ephemeral	Roane	38.860826	-81.500305	0.0005	0.000	1	Pipeline/ Workspace	Temporary		Field	158, 159
548	srog026	Ephemeral	Roane	38.856386	-81.505712	0.0108	0.000	39	Pipeline/ Workspace	Temporary		Field	159
549	sroc012	Ephemeral	Roane	38.852169	-81.508935	0.001	0.000	3	Pipeline/ Workspace	Temporary		Field	160
549	sroc013	Ephemeral	Roane	38.852194	-81.509004	0.0004	0.000	2	Pipeline/ Workspace	Temporary		Field	160
550	sroc011	Ephemeral	Roane	38.851922	-81.510018	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	160
551	sroc010	Ephemeral	Roane	38.851698	-81.511038	0.0019	0.000	9	Pipeline/ Workspace	Temporary		Field	160
552	sroc009	Intermittent	Roane	38.851175	-81.513289	0.0012	0.000	5	Pipeline/ Workspace	Temporary		Field	160
553	srof301	Ephemeral	Roane	38.850875	-81.520409	0.000	0.000	0	Access Road - existing	Permanent		Field	160
554	srog033	Ephemeral	Roane	38.848344	-81.519432	0.0049	0.000	26	Pipeline/ Workspace	Temporary		Field	160
554	srog034	Ephemeral	Roane	38.848487	-81.51939	0.0006	0.000	4	Pipeline/ Workspace	Temporary		Field	160
555	sjaa010	Ephemeral	Jackson	38.838813	-81.536246	0.0034	0.000	13	Pipeline/ Workspace	Temporary		Field	162
556	sjaf315	Ephemeral	Jackson	38.832862	-81.536896	0.0002	0.000	1	Access Road	Temporary		Field	163
557	sjaf306	Ephemeral	Jackson	38.827127	-81.53388	0.005	0.000	8	Access Road	Temporary		Field	163
557	sjaf306	Ephemeral	Jackson	38.827442	-81.534028	0.0048	0.000	7	Access Road	Temporary		Field	163
557	sjaf307	Perennial	Jackson	38.827553	-81.534188	0.0106	0.000	10	Access Road	Temporary		Field	163
557	sjaf308	Intermittent	Jackson	38.827708	-81.534391	0.0112	0.000	18	Access Road	Temporary		Field	163
558	sjaf308	Intermittent	Jackson	38.828643	-81.535051	0.011	0.000	18	Access Road	Temporary		Field	163
559	sjaf309	Ephemeral	Jackson	38.829446	-81.535399	0.0014	0.000	2	Access Road	Temporary		Field	163
560	sjaf310	Ephemeral	Jackson	38.830036	-81.535549	0.0002	0.000	1	Access Road	Temporary		Field	163
561	sjaf311	Ephemeral	Jackson	38.830703	-81.535861	0.0014	0.000	2	Access Road	Temporary		Field	163
562	sjaf312	Ephemeral	Jackson	38.830814	-81.535957	0.0001	0.000	1	Access Road	Temporary		Field	163
563	sjaf313	Ephemeral	Jackson	38.831131	-81.536337	0.0021	0.000	4	Access Road	Temporary		Field	163
564	sjaf314	Ephemeral	Jackson	38.831647	-81.536617	0.0005	0.000	1	Access Road	Temporary		Field	163

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565	sjaa031	Ephemeral	Jackson	38.825589	-81.550029	0.0029	0.000	0	Pipeline/ Workspace	Temporary		Field	164
566	sjaa032	Ephemeral	Jackson	38.823326	-81.549558	0.0008	0.000	0	Pipeline/ Workspace	Temporary		Field	164
567	sjaf305	Ephemeral	Jackson	38.823217	-81.549442	0.0028	0.000	12	Pipeline/ Workspace	Temporary		Field	164
568	sjaf304	Ephemeral	Jackson	38.822999	-81.549276	0.0029	0.000	10	Pipeline/ Workspace	Temporary		Field	164
569	sjaf303	Ephemeral	Jackson	38.82219	-81.548974	0.0002	0.000	1	Access Road	Temporary		Field	164
570	sjaa025b	Perennial	Jackson	38.820314	-81.550102	0.0262	0.000	99	Pipeline/ Workspace	Temporary		Field	164, 165
571	sjaa014	Perennial	Jackson	38.808913	-81.577228	0.0198	0.000	84	Pipeline/ Workspace	Temporary		Field	167
572	sjaa013	Ephemeral	Jackson	38.808176	-81.579898	0.0058	0.000	28	Pipeline/ Workspace	Temporary		Field	167
573	sjaf057	Ephemeral	Jackson	38.80411	-81.586402	0.0052	0.000	21	Pipeline/ Workspace	Temporary		Field	168
574	sjaf050	Ephemeral	Jackson	38.80259	-81.586494	0.004	0.000	25	Pipeline/ Workspace	Temporary		Field	168
574	sjaf051	Ephemeral	Jackson	38.80273	-81.586419	0.0003	0.000	3	Pipeline/ Workspace	Temporary		Field	168
574	sjaf052	Ephemeral	Jackson	38.802509	-81.586534	0.0018	0.000	2	Pipeline/ Workspace	Temporary		Field	168
575	wjag306e	PEM	Jackson	38.798844	-81.587409	0.055	0.000	125	Pipeline/ Workspace	Temporary		Field	168
575	sjaf040_ext	Perennial	Jackson	38.798903	-81.587441	0.0037	0.000	15	Pipeline/ Workspace	Temporary		Field	168
575	sjaf045	Intermittent	Jackson	38.798772	-81.587311	0.0094	0.000	37	Pipeline/ Workspace	Temporary		Field	168
576	sjaf036	Intermittent	Jackson	38.791689	-81.584709	0.007	0.000	24	Pipeline/ Workspace	Temporary		Field	169
577	sjaf014	Perennial	Jackson	38.791461	-81.584505	0.0058	0.000	24	Pipeline/ Workspace	Temporary		Field	169
578	sjaf005	Perennial	Jackson	38.778764	-81.587836	0.0045	0.000	18	Pipeline/ Workspace	Temporary		Field	171, 172
578	sjak301	Intermittent	Jackson	38.778826	-81.587609	0.0054	0.000	18	Pipeline/ Workspace	Temporary		Field	171, 172
579	sjah002	Ephemeral	Jackson	38.777136	-81.591283	0.0008	0.000	8	Pipeline/ Workspace	Temporary		Field	171, 172
580	sjah005	Ephemeral	Jackson	38.777078	-81.592146	0.0007	0.000	5	Pipeline/ Workspace	Temporary		Field	171, 172
581	sjah003	Ephemeral	Jackson	38.776459	-81.59428	0.0038	0.000	19	Pipeline/ Workspace	Temporary		Field	171, 172
581	wjah001e	PEM	Jackson	38.776297	-81.594436	0.029	0.000	103	Pipeline/ Workspace	Temporary		Field	171, 172

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Single and Complete Crossing No.	Unique ID	Flow Regime/ Cowardin Class ^a	County	Latitude	Longitude	Temporary Construction Impact Area (Acres) ^b	Permanent Construction Impact Area (Acres) ^{b, c}	Volume (Cubic Yards) ^d	Workspace Type ^e	Impact Type ^f	Mitigation (Bank and/or ILF)	Delineation Type	Figure A-7 Page No.
582	wjah003e	PEM	Jackson	38.775879	-81.595094	0.090	0.000	100	Pipeline/ Workspace	Temporary		Field	172
583	wjaf401e	PEM	Jackson	38.774828	-81.594502	0.001	0.000	0	Access Road	Temporary		Field	172
584	sjah010	Ephemeral	Jackson	38.775236	-81.596638	0.0012	0.000	10	Pipeline/ Workspace	Temporary		Field	172
584	wjah002f	PFO	Jackson	38.775327	-81.596331	0.033	0.0050	0	Pipeline/ Workspace	Permanent	ILF	Field	172
584	wjah002e	PEM	Jackson	38.775348	-81.596358	0.067	0.000	107	Pipeline/ Workspace	Temporary		Field	172
584	wjai858e	PEM	Jackson	38.775328	-81.596728	0.021	0.000	39	Pipeline/ Workspace	Temporary		Field	172
584	wjai858e	PEM	Jackson	38.775096	-81.596646	0.015	0.000	0	Access Road	Temporary		Field	172
584	wjai858f	PFO	Jackson	38.775271	-81.596840	0.071	0.0190	121	Pipeline/ Workspace	Permanent	ILF	Field	172
585	sjah009	Ephemeral	Jackson	38.774996	-81.596403	0.0069	0.000	0	Access Road	Temporary		Field	172
586	wjai853f	PFO	Jackson	38.774855	-81.597182	0.004	0.000	0	Workspace	Temporary		Field	172
587	sjah007	Perennial	Jackson	38.774746	-81.598087	0.0462	0.000	193	Pipeline/ Workspace	Temporary		Field	172
588	sjaa047	Intermittent	Jackson	38.77237	-81.603169	0.0067	0.000	28	Pipeline/ Workspace	Temporary		Field	172
589	sjaa044	Ephemeral	Jackson	38.772098	-81.604782	0.0121	0.000	26	Pipeline/ Workspace	Temporary		Field	172, 173
590	sjac041	Intermittent	Jackson	38.772309	-81.612785	0.0041	0.000	34	Pipeline/ Workspace	Temporary		Field	173
590	sjac042	Intermittent	Jackson	38.772154	-81.612799	0.0044	0.000	15	Pipeline/ Workspace	Temporary		Field	173
590	sjac040	Ephemeral	Jackson	38.772359	-81.613514	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	173
591	sjac039	Intermittent	Jackson	38.772527	-81.614698	0.0057	0.000	13	Pipeline/ Workspace	Temporary		Field	173
592	wjai305f	PFO	Jackson	38.772947	-81.620205	0.011	0.0020	0	Workspace	Permanent	ILF	Field	173, 174
593	sjad055	Intermittent	Jackson	38.771574	-81.62856	0.0047	0.000	18	Pipeline/ Workspace	Temporary		Field	174
594	sjad054	Ephemeral	Jackson	38.771384	-81.629465	0.001	0.000	4	Pipeline/ Workspace	Temporary		Field	174
595	sjad053	Ephemeral	Jackson	38.771308	-81.630201	0.0006	0.000	0	Pipeline/ Workspace	Temporary		Field	174
596	sjad050	Ephemeral	Jackson	38.769846	-81.633656	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	174
596	sjad051	Ephemeral	Jackson	38.769988	-81.633397	0.0035	0.000	10	Pipeline/ Workspace	Temporary		Field	174
597	sjai302	Ephemeral	Jackson	38.763577	-81.638856	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	175

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598	wjad006e	PEM	Jackson	38.760167	-81.645786	0.019	0.000	51	Pipeline/ Workspace	Temporary		Field	175, 176
599	sjad040	Perennial	Jackson	38.758464	-81.647636	0.0407	0.000	175	Pipeline/ Workspace	Temporary		Field	176
600	sjai307	Ephemeral	Jackson	38.755002	-81.652987	0.0003	0.000	2	Pipeline/ Workspace	Temporary		Field	176
601	sjaa059	Ephemeral	Jackson	38.754294	-81.654005	0.0071	0.000	33	Pipeline/ Workspace	Temporary		Field	176, 177
602	sjaa058	Ephemeral	Jackson	38.753633	-81.654877	0.0016	0.000	13	Pipeline/ Workspace	Temporary		Field	176, 177
603	sjaa057	Ephemeral	Jackson	38.750622	-81.659706	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	177
604	sjad026	Intermittent	Jackson	38.740069	-81.667984	0.000	0.000	0	Workspace	HDD		Field	178, 180
605	sjad028	Intermittent	Jackson	38.739745	-81.668256	0.000	0.000	0	Pipeline/ Workspace	HDD		Field	178, 180
606	sjad024	Perennial	Jackson	38.738581	-81.669231	0.000	0.000	0	Pipeline/ Workspace	HDD		Field	178, 180
606	sjad025	Perennial	Jackson	38.738649	-81.669273	0.000	0.000	0	Workspace	HDD		Field	178, 180
607	sjag312	Ephemeral	Jackson	38.736804	-81.673237	0.007	0.000	11	Mount Olive CS	Temporary		Field	180
607	sjag312	Ephemeral	Jackson	38.736804	-81.673237	0.005	0.000	8	Mount Olive CS	Temporary		Field	180
607	sjag313	Ephemeral	Jackson	38.736587	-81.673348	0.004	0.000	6	Mount Olive CS	Temporary		Field	180
607	sjag313	Ephemeral	Jackson	38.736587	-81.673348	0.000	0.0005	1	Mount Olive CS	Permanent	ILF	Field	180
608	sjag312	Ephemeral	Jackson	38.736804	-81.673237	0.000	0.0083	13	Mount Olive CS	Permanent	ILF	Field	180
609	sjag305	Intermittent	Jackson	38.737937	-81.675396	0.0128	0.000	41	Mount Olive CS	Temporary		Field	180
609	sjag307	Ephemeral	Jackson	38.738622	-81.674173	0.0102	0.000	33	Mount Olive CS	Temporary		Field	178, 180
609	sjag308	Ephemeral	Jackson	38.738288	-81.674486	0.0347	0.000	112	Mount Olive CS	Temporary		Field	178, 180
609	sjag309	Ephemeral	Jackson	38.738205	-81.674275	0.000	0.0048	8	Mount Olive CS	Permanent	ILF	Field	178, 180
609	sjag309	Ephemeral	Jackson	38.738205	-81.674275	0.0032	0.000	5	Mount Olive CS	Temporary		Field	178, 180
609	sjag310	Ephemeral	Jackson	38.738123	-81.674634	0.0025	0.000	4	Mount Olive CS	Temporary		Field	178, 180
609	sjag310	Ephemeral	Jackson	38.738123	-81.674634	0.000	0.0009	2	Mount Olive CS	Permanent	ILF	Field	178, 180
609	sjag311	Ephemeral	Jackson	38.738355	-81.674705	0.0072	0.000	23	Mount Olive CS	Temporary		Field	178, 180
610	sjag301	Ephemeral	Jackson	38.736288	-81.676406	0.0247	0.000	80	Mount Olive CS	Temporary		Field	180

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610	sjag302	Ephemeral	Jackson	38.736143	-81.67611	0.0039	0.000	13	Mount Olive CS	Temporary		Field	180
610	sjag303	Ephemeral	Jackson	38.736437	-81.675975	0.000	0.0067	11	Mount Olive CS	Permanent	ILF	Field	180
610	sjag303	Ephemeral	Jackson	38.736437	-81.675975	0.0011	0.000	1	Mount Olive CS	Temporary		Field	180
610	sjag304	Ephemeral	Jackson	38.736493	-81.676255	0.0054	0.000	17	Mount Olive CS	Temporary		Field	180
610	sjag304	Ephemeral	Jackson	38.736493	-81.676255	0.000	0.0038	12	Mount Olive CS	Permanent	ILF	Field	180
610	sjag305	Intermittent	Jackson	38.737027	-81.67657	0.0498	0.000	161	Mount Olive CS	Temporary		Field	180
611	sjag314	Ephemeral	Jackson	38.734932	-81.675552	0.000	0.0123	40	Mount Olive CS	Permanent	ILF	Field	180
611	sjag314	Ephemeral	Jackson	38.734932	-81.675552	0.0024	0.000	8	Mount Olive CS	Temporary		Field	180
612	sjad029	Intermittent	Jackson	38.734516	-81.676546	0.0009	0.000	4	Pipeline/ Workspace	Temporary		Field	180
613	sjaa035	Ephemeral	Jackson	38.734575	-81.677701	0.005	0.000	76	Pipeline/ Workspace	Temporary		Field	180
613	sjaa035	Ephemeral	Jackson	38.734575	-81.677701	0.000	0.0037	5	Ripley RS - Access Road	Permanent	ILF	Field	180
614	sjaa036	Intermittent	Jackson	38.734806	-81.698541	0.1043	0.000	77	Pipeline/ Workspace	Temporary		Field	180
614	sjaa036	Intermittent	Jackson	38.734806	-81.67853	0.000	0.0186	215	Ripley RS - Access Road	Permanent	ILF	Field	180
615	sjag346	Ephemeral	Jackson	38.73508	-81.679374	0.0007	0.000	23	Pipeline/ Workspace	Temporary		Field	180
615	sjag346	Ephemeral	Jackson	38.73508	-81.679374	0.000	0.0009	26	Ripley RS - Access Road	Permanent	ILF	Field	180
616	sjag348	Ephemeral	Jackson	38.735889	-81.681969	0.0027	0.000	3	Pipeline/ Workspace	Temporary		Field	180, 181
616	sjag348	Ephemeral	Jackson	38.736145	-81.681971	0.0007	0.000	39	Ripley RS - Access Road	Temporary		Field	180, 181
616	sjag348	Ephemeral	Jackson	38.735889	-81.681969	0.000	0.0009	53	Ripley RS - Access Road	Permanent	ILF	Field	180, 181
617	sjag356	Intermittent	Jackson	38.735887	-81.685212	0.0047	0.000	16	Pipeline/ Workspace	Temporary		Field	181
618	sjag350	Ephemeral	Jackson	38.735626	-81.687952	0.001	0.000	4	Pipeline/ Workspace	Temporary		Field	181
619	sjag351	Ephemeral	Jackson	38.735625	-81.688659	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	181

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620	wjai303e	PEM	Jackson	38.762435	-81.694197	0.023	0.000	0	Contractor Yard	Temporary		Field	251
621	sjag354	Ephemeral	Jackson	38.735414	-81.689159	0.0016	0.000	7	Pipeline/ Workspace	Temporary		Field	181
622	sjag352	Ephemeral	Jackson	38.735161	-81.689549	0.0009	0.000	4	Pipeline/ Workspace	Temporary		Field	181
623	sjad014	Ephemeral	Jackson	38.732673	-81.695803	0.0007	0.000	0	Pipeline/ Workspace	Temporary		Field	181, 182
624	sjad010	Intermittent	Jackson	38.729051	-81.700972	0.0004	0.000	3	Pipeline/ Workspace	Temporary		Field	182
624	sjad008	Intermittent	Jackson	38.728882	-81.701035	0.0029	0.000	13	Pipeline/ Workspace	Temporary		Field	182
625	sjad007	Ephemeral	Jackson	38.728728	-81.70127	0.0017	0.000	6	Pipeline/ Workspace	Temporary		Field	182
626	wjad001e	PEM	Jackson	38.724945	-81.706309	0.000	0.000	0	Workspace	Temporary		Field	182, 183
627	sjag315	Ephemeral	Jackson	38.72347	-81.710377	0.0013	0.000	0	Workspace	Temporary		Field	183
628	sjag316	Intermittent	Jackson	38.720808	-81.712983	0.0054	0.000	27	Pipeline/ Workspace	Temporary		Field	183
628	sjag318	Ephemeral	Jackson	38.720738	-81.712808	0.000	0.000	0	Pipeline/ Workspace	Temporary		Field	183
629	sjag321	Ephemeral	Jackson	38.720367	-81.713684	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	183
630	sjaf065	Perennial	Jackson	38.717701	-81.715049	0.028	0.000	86	Pipeline/ Workspace	Temporary		Field	183, 184
631	wjac003f	PFO	Jackson	38.707817	-81.722960	0.002	0.0021	0	Pipeline/ Workspace	Permanent	ILF	Field	185
631	sjac055	Intermittent	Jackson	38.707968	-81.722923	0.0118	0.000	53	Pipeline/ Workspace	Temporary		Field	185
632	sjac056	Ephemeral	Jackson	38.706974	-81.724818	0.0041	0.000	14	Pipeline/ Workspace	Temporary		Field	185
633	sjac001	Intermittent	Jackson	38.698918	-81.741702	0.003	0.000	12	Pipeline/ Workspace	Temporary		Field	186
634	sjac001	Intermittent	Jackson	38.698147	-81.741405	0.0029	0.000	7	Access Road	Temporary		Field	186
634	sjac002	Ephemeral	Jackson	38.69811	-81.741421	0.00003	0.000	1	Access Road	Temporary		Field	186
634	sjac002	Ephemeral	Jackson	38.698139	-81.741499	0.0016	0.000	3	Access Road	Temporary		Field	186
635	sjac002	Ephemeral	Jackson	38.698736	-81.74224	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	186, 187
636	sjaa001b	Ephemeral	Jackson	38.697199	-81.745982	0.0064	0.000	29	Pipeline/ Workspace	Temporary		Field	186, 187
636	sjaa002	Ephemeral	Jackson	38.697118	-81.745938	0.0005	0.000	4	Pipeline/ Workspace	Temporary		Field	186, 187
637	sjaa005	Ephemeral	Jackson	38.696767	-81.746757	0.0011	0.000	3	Pipeline/ Workspace	Temporary		Field	186, 187

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637	sjaa006	Ephemeral	Jackson	38.696746	-81.746819	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	186, 187
637	sjaa007	Ephemeral	Jackson	38.69667	-81.746937	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	186, 187
638	sjaa009	Ephemeral	Jackson	38.695187	-81.750018	0.0031	0.000	13	Pipeline/ Workspace	Temporary		Field	187
639	wjae001f	PFO	Jackson	38.690603	-81.758547	0.011	0.0237	107	Pipeline/ Workspace	Permanent	ILF	Field	188
639	sjae011b	Perennial	Jackson	38.690471	-81.758567	0.0114	0.000	57	Pipeline/ Workspace	Temporary		Field	188
640	sjac059	Ephemeral	Jackson	38.686726	-81.764371	0.0021	0.000	0	Pipeline/ Workspace	Temporary		Field	188
640	sjae007	Perennial	Jackson	38.686713	-81.764709	0.0169	0.000	71	Pipeline/ Workspace	Temporary		Field	188
641	sjae005	Ephemeral	Jackson	38.685294	-81.766916	0.0002	0.000	0	Workspace	Temporary		Field	188, 189
642	sjae002	Intermittent	Jackson	38.682648	-81.771891	0.0026	0.000	9	Pipeline/ Workspace	Temporary		Field	189
643	sjag338	Ephemeral	Mason	38.680638	-81.775542	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	189
644	sjag334	Ephemeral	Putnam	38.679425	-81.776143	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	189
645	sjag332	Ephemeral	Putnam	38.677547	-81.777087	0.0017	0.000	7	Pipeline/ Workspace	Temporary		Field	189
645	sjag333	Ephemeral	Putnam	38.677685	-81.77701	0.0044	0.000	22	Pipeline/ Workspace	Temporary		Field	189
646	wjag305e	PEM	Putnam	38.676288	-81.777429	0.021	0.000	0	Workspace	Temporary		Field	190
646	wjag304e	PEM	Putnam	38.675795	-81.777318	0.009	0.000	13	Pipeline/ Workspace	Temporary		Field	190
646	sjag330	Ephemeral	Putnam	38.676057	-81.777432	0.0025	0.000	9	Pipeline/ Workspace	Temporary		Field	190
647	spua093	Ephemeral	Putnam	38.67431	-81.77802	0.0027	0.000	11	Pipeline/ Workspace	Temporary		Field	190
647	spua094	Ephemeral	Putnam	38.674427	-81.777952	0.003	0.000	0	Pipeline/ Workspace	Temporary		Field	190
648	spue026	Ephemeral	Putnam	38.674137	-81.778171	0.0007	0.000	3	Pipeline/ Workspace	Temporary		Field	190
649	spue020_ext	Ephemeral	Putnam	38.672956	-81.78014	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	190
649	spue021	Ephemeral	Putnam	38.672904	-81.780004	0.0007	0.000	7	Pipeline/ Workspace	Temporary		Field	190
649	spue022	Ephemeral	Putnam	38.673212	-81.779418	0.0041	0.000	6	Pipeline/ Workspace	Temporary		Field	190
649	spue023	Ephemeral	Putnam	38.672851	-81.780221	0.0016	0.000	7	Pipeline/ Workspace	Temporary		Field	190
650	spua090	Ephemeral	Putnam	38.667885	-81.787668	0.0057	0.000	23	Pipeline/ Workspace	Temporary		Field	191

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651	wpue003e	PEM	Putnam	38.666518	-81.789175	0.014	0.000	33	Pipeline/ Workspace	Temporary		Field	191
651	wpue003e	PEM	Putnam	38.666441	-81.789366	0.000	0.000	0	Workspace	Temporary		Field	191
651	wpue004e	PEM	Putnam	38.666586	-81.789534	0.021	0.000	0	Workspace	Temporary		Field	191
651	wpue003e	PEM	Putnam	38.666416	-81.789525	0.001	0.000	0	Workspace	Temporary		Field	191
651	spue010	Intermittent	Putnam	38.666508	-81.789531	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	191
651	spue011	Ephemeral	Putnam	38.666517	-81.789437	0.003	0.000	12	Pipeline/ Workspace	Temporary		Field	191
652	spue015	Perennial	Putnam	38.665483	-81.795421	0.0046	0.000	19	Pipeline/ Workspace	Temporary		Field	191
652	spue016	Intermittent	Putnam	38.665466	-81.795573	0.0036	0.000	20	Pipeline/ Workspace	Temporary		Field	191
653	wpu008e	PEM	Putnam	38.664738	-81.799666	0.007	0.000	0	Workspace	Temporary		Field	191
654	spug317	Ephemeral	Putnam	38.663818	-81.799722	0.0002	0.000	1	Access Road	Temporary		Field	191
655	spug315	Ephemeral	Putnam	38.662846	-81.799785	0.0001	0.000	1	Access Road	Temporary		Field	191
656	spua033	Ephemeral	Putnam	38.664302	-81.802517	0.0108	0.000	73	Pipeline/ Workspace	Temporary		Field	191, 192
657	spua032	Intermittent	Putnam	38.664029	-81.80449	0.0062	0.000	27	Pipeline/ Workspace	Temporary		Field	192
658	spua035	Perennial	Putnam	38.662949	-81.808637	0.0077	0.000	35	Pipeline/ Workspace	Temporary		Field	192
659	spue001	Ephemeral	Putnam	38.66172	-81.810837	0.0025	0.000	10	Pipeline/ Workspace	Temporary		Field	192
659	spue002	Ephemeral	Putnam	38.66167	-81.810897	0.000	0.000	0	Pipeline/ Workspace	Temporary		Field	192
660	spuc047	Intermittent	Putnam	38.660587	-81.81305	0.0037	0.000	17	Pipeline/ Workspace	Temporary		Field	192
661	spuc043	Ephemeral	Putnam	38.658782	-81.818379	0.0013	0.000	0	Pipeline/ Workspace	Temporary		Field	192, 193
662	spud001	Perennial	Putnam	38.652508	-81.821663	0.0127	0.000	44	Pipeline/ Workspace	Temporary		Field	193, 194
663	spud009	Intermittent	Putnam	38.646479	-81.827655	0.0035	0.000	15	Pipeline/ Workspace	Temporary		Field	194, 195
664	spud010	Ephemeral	Putnam	38.646013	-81.827577	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	194, 195
665	spuk362	Ephemeral	Putnam	38.64485	-81.828249	0.0002	0.000	1	Access Road	Temporary		Field	195
666	spuk363	Ephemeral	Putnam	38.644711	-81.828593	0.0016	0.000	3	Access Road	Temporary		Field	195
667	spuk364	Ephemeral	Putnam	38.644368	-81.829173	0.0007	0.000	2	Access Road	Temporary		Field	195

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668	spuk366	Ephemeral	Putnam	38.64399	-81.830013	0.0009	0.000	2	Access Road	Temporary		Field	195, 196
668	spuk367	Ephemeral	Putnam	38.643966	-81.830157	0.0031	0.000	7	Access Road	Temporary		Field	195, 196
669	spuk376	Perennial	Putnam	38.642679	-81.835751	0.0035	0.000	11	Access Road	Temporary		Field	195, 196
670	spuk377	Perennial	Putnam	38.642785	-81.83593	0.0001	0.000	0	Access Road	Temporary		Field	195, 196
671	spuk374	Intermittent	Putnam	38.643258	-81.833933	0.0034	0.000	8	Access Road	Temporary		Field	195, 196
672	spuk370	Ephemeral	Putnam	38.643521	-81.832184	0.0006	0.000	2	Access Road	Temporary		Field	195, 196
673	spuk369	Ephemeral	Putnam	38.643537	-81.831548	0.0005	0.000	2	Access Road	Temporary		Field	195, 196
674	spuk371	Ephemeral	Putnam	38.643545	-81.832506	0.0004	0.000	2	Access Road	Temporary		Field	195, 196
675	spuk372	Ephemeral	Putnam	38.643563	-81.832762	0.0005	0.000	2	Access Road	Temporary		Field	195, 196
676	spuk373	Ephemeral	Putnam	38.643553	-81.833108	0.0007	0.000	2	Access Road	Temporary		Field	195, 196
677	spuk368	Ephemeral	Putnam	38.643669	-81.830718	0.0006	0.000	2	Access Road	Temporary		Field	195, 196
678	spug324	Perennial	Putnam	38.639089	-81.826003	0.0042	0.000	19	Pipeline/ Workspace	Temporary		Field	195, 196
679	spug322	Ephemeral	Putnam	38.635947	-81.827888	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	196, 197
680	spuk379	Ephemeral	Putnam	38.633075	-81.823881	0.0009	0.000	2	Access Road	Temporary		Field	197
681	spug333	Perennial	Putnam	38.634216	-81.82981	0.0094	0.000	29	Pipeline/ Workspace	Temporary		Field	197
682	wpuc010e	PEM	Putnam	38.633343	-81.833330	0.019	0.000	156	Pipeline/ Workspace	Temporary		Field	197
683	spuk357	Perennial	Putnam	38.631767	-81.839081	0.0082	0.000	10	Access Road	Temporary		Field	197
684	spug507	Ephemeral	Putnam	38.625058	-81.835265	0.0015	0.000	5	Access Road	Temporary		Field	198
685	spug507	Ephemeral	Putnam	38.625197	-81.836073	0.0006	0.000	2	Access Road	Temporary		Field	198
686	spuk355	Ephemeral	Putnam	38.625714	-81.838872	0.0024	0.000	16	Pipeline/ Workspace	Temporary		Field	198
687	spuc053	Perennial	Putnam	38.625594	-81.839286	0.0135	0.000	52	Pipeline/ Workspace	Temporary		Field	198
687	spuk354	Ephemeral	Putnam	38.625614	-81.839359	0.0008	0.000	4	Pipeline/ Workspace	Temporary		Field	198
687	wpuk303e	PEM	Putnam	38.625602	-81.839635	0.040	0.000	46	Pipeline/ Workspace	Temporary		Field	198

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688	spui005	Ephemeral	Putnam	38.622264	-81.844638	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	198
689	spui006a	Ephemeral	Putnam	38.621237	-81.846772	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	198
689	spui006b	Ephemeral	Putnam	38.621281	-81.846751	0.0012	0.000	5	Pipeline/ Workspace	Temporary		Field	198
689	spuc018	Perennial	Putnam	38.620892	-81.847194	0.0433	0.000	177	Pipeline/ Workspace	Temporary		Field	198
690	spun805	Ephemeral	Putnam	38.620176	-81.84812	0.0004	0.000	3	Pipeline/ Workspace	Temporary		Field	198, 199
691	spug504	Perennial	Putnam	38.620499	-81.85033	0.0319	0.000	0	Access Road	Temporary		Field	198, 199
692	spuc017	Intermittent	Putnam	38.619088	-81.853618	0.0046	0.000	15	Pipeline/ Workspace	Temporary		Field	199
693	spuc015	Perennial	Putnam	38.618715	-81.855368	0.0659	0.000	281	Pipeline/ Workspace	Temporary		Field	199
694	spuc011	Perennial	Putnam	38.617469	-81.861481	0.0067	0.000	27	Pipeline/ Workspace	Temporary		Field	199, 200
695	spuk352	Ephemeral	Putnam	38.6152	-81.861324	0.0008	0.000	2	Access Road	Temporary		Field	199
696	spuk351	Ephemeral	Putnam	38.616746	-81.861538	0.0003	0.000	1	Access Road	Temporary		Field	199, 200
697	spuc011	Perennial	Putnam	38.614889	-81.861392	0.0022	0.000	6	Access Road	Temporary		Field	199, 200
698	spuc010	Perennial	Putnam	38.615969	-81.865114	0.006	0.000	33	Pipeline/ Workspace	Temporary		Field	199, 200
699	spuc009	Intermittent	Putnam	38.61566	-81.865629	0.0084	0.000	40	Pipeline/ Workspace	Temporary		Field	199, 200
700	spuk353	Ephemeral	Putnam	38.613059	-81.867339	0.0016	0.000	3	Access Road	Temporary		Field	200
701	spuc007	Intermittent	Putnam	38.611124	-81.872187	0.0022	0.000	9	Pipeline/ Workspace	Temporary		Field	200
702	spuc006	Perennial	Putnam	38.610828	-81.873099	0.0487	0.000	199	Pipeline/ Workspace	Temporary		Field	200
703	spuc029	Perennial	Putnam	38.60951	-81.876657	0.0197	0.000	82	Pipeline/ Workspace	Temporary		Field	200, 201
704	spuc027	Ephemeral	Putnam	38.604655	-81.882623	0.0012	0.000	0	Pipeline/ Workspace	Temporary		Field	201
705	spuc026	Ephemeral	Putnam	38.604467	-81.883033	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	201
705	spuc025	Ephemeral	Putnam	38.604291	-81.883237	0.0028	0.000	11	Pipeline/ Workspace	Temporary		Field	201
706	spuc021	Ephemeral	Putnam	38.601337	-81.887055	0.0046	0.000	15	Pipeline/ Workspace	Temporary		Field	202
706	spuc022	Ephemeral	Putnam	38.60148	-81.886841	0.0044	0.000	17	Pipeline/ Workspace	Temporary		Field	202

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707	spuk325	Ephemeral	Putnam	38.602176	-81.889488	0.0021	0.000	2	Access Road	Temporary		Field	201, 202
708	spuk328	Ephemeral	Putnam	38.601549	-81.891373	0.0013	0.000	2	Access Road	Temporary		Field	202
709	spuk322	Intermittent	Putnam	38.601556	-81.892413	0.0024	0.000	5	Access Road	Temporary		Field	202
710	spuk323	Perennial	Putnam	38.60157	-81.892092	0.0039	0.000	13	Access Road	Temporary		Field	202
711	spuk329	Ephemeral	Putnam	38.601584	-81.891875	0.0005	0.000	2	Access Road	Temporary		Field	202
712	spuk327	Ephemeral	Putnam	38.601588	-81.891157	0.0008	0.000	3	Access Road	Temporary		Field	202
713	spuk326	Ephemeral	Putnam	38.601719	-81.890612	0.0006	0.000	2	Access Road	Temporary		Field	202
714	spuk341	Ephemeral	Putnam	38.596084	-81.890015	0.005	0.000	12	Access Road	Temporary		Field	202
715	spuk342	Ephemeral	Putnam	38.596379	-81.892526	0.004	0.000	4	Access Road	Temporary		Field	202
716	spuk343	Intermittent	Putnam	38.596276	-81.892804	0.0011	0.000	5	Access Road	Temporary		Field	202
717	spuk344	Ephemeral	Putnam	38.596136	-81.892907	0.004	0.000	4	Access Road	Temporary		Field	202
718	wpua005f	PFO	Putnam	38.596738	-81.893498	0.001	0.000	0	Workspace	Temporary		Field	202
718	spua016	Intermittent	Putnam	38.596825	-81.89363	0.0067	0.000	27	Pipeline/ Workspace	Temporary		Field	202
718	spua017a	Intermittent	Putnam	38.596765	-81.893531	0.0016	0.000	0	Pipeline/ Workspace	Temporary		Field	202
719	wpua004e	PEM	Putnam	38.595608	-81.896304	0.000	0.000	0	Workspace	Temporary		Field	202, 203
720	spua014	Ephemeral	Putnam	38.594734	-81.897867	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	203
721	spub022	Ephemeral	Putnam	38.594518	-81.897972	0.0001	0.000	0	Pipeline/ Workspace	Temporary		Field	203
721	wpub010s	PSS	Putnam	38.594543	-81.898032	0.042	0.0099	112	Pipeline/ Workspace	Permanent	ILF	Field	203
721	wpub010e 2	PEM	Putnam	38.594551	-81.898160	0.003	0.000	0	Workspace	Temporary		Field	203
722	spui010	Intermittent	Putnam	38.592414	-81.900818	0.0025	0.000	10	Pipeline/ Workspace	Temporary		Field	203
723	spuk320	Intermittent	Putnam	38.590583	-81.902223	0.0026	0.000	10	Pipeline/ Workspace	Temporary		Field	203
724	spuk318	Intermittent	Putnam	38.589302	-81.905684	0.0077	0.000	19	Pipeline/ Workspace	Temporary		Field	203
724	spuk319	Ephemeral	Putnam	38.589348	-81.905742	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	203
725	spub015	Perennial	Putnam	38.587196	-81.910244	0.0136	0.000	58	Pipeline/ Workspace	Temporary		Field	196

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726	spuk317	Intermittent	Putnam	38.58524	-81.910062	0.0002	0.000	2	Access Road	Temporary		Field	204
727	spuk316	Ephemeral	Putnam	38.585081	-81.910084	0.0008	0.000	3	Access Road	Temporary		Field	204
728	spuk314	Perennial	Putnam	38.584635	-81.909916	0.0044	0.000	13	Access Road	Temporary		Field	204
728	spuk315	Perennial	Putnam	38.584712	-81.909971	0.0218	0.000	28	Access Road	Temporary		Field	204
729	spuk314	Perennial	Putnam	38.584382	-81.909868	0.0011	0.000	5	Access Road	Temporary		Field	204
730	spuk313	Ephemeral	Putnam	38.583636	-81.91008	0.001	0.000	2	Access Road	Temporary		Field	204
731	spug503	Ephemeral	Putnam	38.582292	-81.911515	0.0002	0.000	1	Access Road	Temporary		Field	204
732	spug502	Ephemeral	Putnam	38.58207	-81.910871	0.0002	0.000	1	Access Road	Temporary		Field	204
733	spug016	Ephemeral	Putnam	38.582012	-81.913895	0.0047	0.000	20	Pipeline/ Workspace	Temporary		Field	204
734	spug012	Ephemeral	Putnam	38.580128	-81.915375	0.0061	0.000	26	Pipeline/ Workspace	Temporary		Field	204
735	spug005	Ephemeral	Putnam	38.577865	-81.918457	0.0011	0.000	3	Pipeline/ Workspace	Temporary		Field	205
735	spug006	Ephemeral	Putnam	38.577748	-81.918641	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	205
735	spug007	Ephemeral	Putnam	38.57799	-81.918485	0.0039	0.000	16	Pipeline/ Workspace	Temporary		Field	205
736	spug009	Intermittent	Putnam	38.576912	-81.9202	0.0058	0.000	22	Pipeline/ Workspace	Temporary		Field	205
737	spug001	Ephemeral	Putnam	38.576478	-81.922706	0.0068	0.000	28	Pipeline/ Workspace	Temporary		Field	205, 206
738	spuk305	Ephemeral	Putnam	38.566847	-81.929266	0.0032	0.000	0	Access Road	Temporary		Field	207
738	spuk305	Ephemeral	Putnam	38.566674	-81.929429	0.0006	0.000	0	Access Road	Temporary		Field	207
739	spuk307	Perennial	Putnam	38.569264	-81.930067	0.0055	0.000	26	Pipeline/ Workspace	Temporary		Field	206, 207
740	spuk303	Ephemeral	Putnam	38.566005	-81.929712	0.0012	0.000	0	Access Road	Temporary		Field	207
741	spuk302	Ephemeral	Putnam	38.565671	-81.929786	0.0041	0.000	0	Access Road	Temporary		Field	207
742	spug035	Perennial	Putnam	38.567935	-81.933763	0.0062	0.000	25	Pipeline/ Workspace	Temporary		Field	207
743	wpuc003e	PEM	Putnam	38.564370	-81.942773	0.001	0.000	0	Workspace	Temporary		Field	207
743	spua004	Perennial	Putnam	38.564492	-81.942654	0.0039	0.000	16	Pipeline/ Workspace	Temporary		Field	207, 208
744	wpua001e	PEM	Putnam	38.563216	-81.946442	0.008	0.000	0	Workspace	Temporary		Field	208

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744	spua003	Perennial	Putnam	38.563357	-81.946436	0.0031	0.000	16	Pipeline/ Workspace	Temporary		Field	208
745	spua002	Intermittent	Putnam	38.562817	-81.948364	0.0045	0.000	19	Pipeline/ Workspace	Temporary		Field	208
746	spuc056	Perennial	Putnam	38.561319	-81.955122	0.0036	0.000	15	Pipeline/ Workspace	Temporary		Field	208
747	spuh002	Ephemeral	Putnam	38.561147	-81.957185	0.0003	0.000	2	Pipeline/ Workspace	Temporary		Field	208
748	spuh001	Ephemeral	Putnam	38.561083	-81.957355	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	208
749	spuf003	Ephemeral	Putnam	38.560602	-81.95916	0.0016	0.000	7	Pipeline/ Workspace	Temporary		Field	208
750	spuf002	Intermittent	Putnam	38.561275	-81.967658	0.0012	0.000	5	Access Road	Temporary		Field	209
751	spuf002	Intermittent	Putnam	38.561129	-81.967529	0.0007	0.000	6	Pipeline/ Workspace	Temporary		Field	209
752	spuf001	Perennial	Putnam	38.559322	-81.969974	0.000	0.000	0	Pipeline/ Workspace	HDD		Field	209
753	wpui001f	PFO	Putnam	38.558529	-81.971040	0.000	0.000	0	Pipeline/ Workspace	HDD		Field	209
754	wpui002e	PEM	Putnam	38.556266	-81.974079	0.371	0.000	404	Pipeline/ Workspace	Temporary		Field	209
754	wpui002e	PEM	Putnam	38.556266	-81.974079	0.243	0.000	0	Staging Area	Temporary		Field	209
755	spui011	Intermittent	Putnam	38.553898	-81.977835	0.0118	0.000	50	Pipeline/ Workspace	Temporary		Field	210
756	spui601	Ephemeral	Putnam	38.556093	-81.981207	0.0006	0.000	2	Access Road	Temporary		Field	210
757	wpui006s ^g	PSS	Putnam	38.553856	-81.978219	0.000	0.000	0	Workspace	Temporary		Field	210
758	wpui006s ^g	PSS	Putnam	38.553624	-81.978512	0.000	0.000	0	Workspace	Temporary		Field	210
759	wpui003	PSS	Putnam	38.553154	-81.978832	0.056	0.0119	135	Pipeline/ Workspace	Permanent	ILF	Field	210
759	wpui003	PEM	Putnam	38.553081	-81.979047	0.102	0.000	234	Pipeline/ Workspace	Temporary		Field	210
760	wpui005e	PEM	Putnam	38.553023	-81.979491	0.031	0.000	40	Pipeline/ Workspace	Temporary		Field	210
761	spun800	Ephemeral	Putnam	38.557669	-81.983148	0.0359	0.000	58	Proposed Yard	Temporary		Field	210
761	wpun800e	PEM	Putnam	38.557057	-81.983191	0.350	0.000	0	Contractor Yard	Temporary		Field	210
762	wpun801e	PEM	Putnam	38.557526	-81.985896	0.181	0.000	0	Contractor Yard	Temporary		Field	210
763	opun807	Pond	Putnam	38.555594	-81.983557	0.1121	0.000	0	Access Road	Temporary		Field	210
763	spun801	Intermittent	Putnam	38.555846	-81.983834	0.000	0.000	5	Access Road	Temporary		Field	210

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764	wpun804e	PEM	Putnam	38.556099	-81.985721	0.026	0.000	0	Contractor Yard	Temporary		Field	210
765	wpun802e	PEM	Putnam	38.556532	-81.985161	0.057	0.000	0	Contractor Yard	Temporary		Field	210
766	wpun803e	PEM	Putnam	38.556454	-81.986800	0.211	0.000	0	Contractor Yard	Temporary		Field	210
767	wpui004e	PEM	Putnam	38.552774	-81.979843	0.135	0.000	225	Pipeline/ Workspace	Temporary		Field	210
768	spui013	Intermittent	Putnam	38.552007	-81.980183	0.0034	0.000	13	Pipeline/ Workspace	Temporary		Field	210, 211
769	spug302	Intermittent	Putnam	38.550441	-81.981763	0.0253	0.000	102	Pipeline/ Workspace	Temporary		Field	211
769	wpua011s	PSS	Putnam	38.550427	-81.981769	0.045	0.0069	78	Pipeline/ Workspace	Permanent	ILF	Field	211
770	wpug301e	PEM	Putnam	38.549794	-81.982524	0.026	0.000	23	Pipeline/ Workspace	Temporary		Field	211
771	spug301	Ephemeral	Putnam	38.550397	-81.983527	0.0029	0.000	2	Access Road	Temporary		Field	211
772	spuh029	Ephemeral	Putnam	38.549118	-81.986728	0.0033	0.000	14	Pipeline/ Workspace	Temporary		Field	211
773	spuh030	Ephemeral	Putnam	38.549151	-81.987249	0.0016	0.000	7	Pipeline/ Workspace	Temporary		Field	211
774	spug204	Ephemeral	Putnam	38.549018	-81.987861	0.0009	0.000	4	Pipeline/ Workspace	Temporary		Field	211
775	spug202	Ephemeral	Putnam	38.54907	-81.988687	0.0001	0.000	0	Workspace	Temporary		Field	211
775	spug203	Ephemeral	Putnam	38.549067	-81.988617	0.0003	0.000	0	Workspace	Temporary		Field	211
776	spuh025	Ephemeral	Putnam	38.548981	-81.989372	0.0003	0.000	0	Pipeline/ Workspace	Temporary		Field	211
777	spuh024	Ephemeral	Putnam	38.548384	-81.993645	0.0008	0.000	6	Pipeline/ Workspace	Temporary		Field	211, 212
778	spuh010	Ephemeral	Putnam	38.54771	-81.998207	0.0037	0.000	15	Pipeline/ Workspace	Temporary		Field	212
778	spuh011	Ephemeral	Putnam	38.547636	-81.998402	0.0034	0.000	30	Pipeline/ Workspace	Temporary		Field	212
779	spuh019	Ephemeral	Putnam	38.54086	-82.003449	0.0022	0.000	8	Pipeline/ Workspace	Temporary		Field	213
780	spua055	Ephemeral	Putnam	38.540701	-82.003636	0.0045	0.000	16	Pipeline/ Workspace	Temporary		Field	213
781	spuh020	Ephemeral	Putnam	38.540446	-82.003997	0.0024	0.000	10	Pipeline/ Workspace	Temporary		Field	213
781	spuh021	Ephemeral	Putnam	38.540497	-82.003893	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	213
782	spua053	Ephemeral	Putnam	38.539632	-82.005242	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	213
783	spua040	Intermittent	Putnam	38.535438	-82.012642	0.0047	0.000	13	Pipeline/ Workspace	Temporary		Field	213

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784	wpuf803e	PEM	Putnam	38.535364	-82.013078	0.027	0.000	0	Workspace	Temporary		Field	213
785	spua037	Ephemeral	Putnam	38.533391	-82.014756	0.0079	0.000	39	Pipeline/ Workspace	Temporary		Field	214
786	spug305	Ephemeral	Putnam	38.532977	-82.015064	0.0009	0.000	4	Pipeline/ Workspace	Temporary		Field	214
787	spug030	Ephemeral	Putnam	38.532246	-82.015891	0.0051	0.000	21	Pipeline/ Workspace	Temporary		Field	214
788	spua063	Intermittent	Putnam	38.523349	-82.017891	0.0073	0.000	32	Pipeline/ Workspace	Temporary		Field	215
789	spua071	Intermittent	Putnam	38.519939	-82.018764	0.0069	0.000	28	Pipeline/ Workspace	Temporary		Field	215
790	spui306	Ephemeral	Putnam	38.517446	-82.021316	0.0025	0.000	11	Pipeline/ Workspace	Temporary		Field	216
791	spui308	Intermittent	Putnam	38.516532	-82.02222	0.0066	0.000	28	Pipeline/ Workspace	Temporary		Field	216
791	spui310	Ephemeral	Putnam	38.516556	-82.02232	0.000	0.000	0	Pipeline/ Workspace	Temporary		Field	216
792	spui311	Ephemeral	Putnam	38.515998	-82.022732	0.0025	0.000	9	Pipeline/ Workspace	Temporary		Field	216
792	spui312	Ephemeral	Putnam	38.515951	-82.022822	0.0007	0.000	5	Pipeline/ Workspace	Temporary		Field	216
793	spua084	Intermittent	Putnam	38.509285	-82.027081	0.0136	0.000	47	Pipeline/ Workspace	Temporary		Field	217
794	spua082	Ephemeral	Putnam	38.503578	-82.028462	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	217
795	spuc087	Intermittent	Putnam	38.497498	-82.035353	0.0038	0.000	15	Pipeline/ Workspace	Temporary		Field	218
796	spuc057	Perennial	Putnam	38.497423	-82.035422	0.0022	0.000	9	Pipeline/ Workspace	Temporary		Field	218
797	spuc059	Ephemeral	Putnam	38.495943	-82.03812	0.0034	0.000	14	Pipeline/ Workspace	Temporary		Field	218
797	spuc060	Intermittent	Putnam	38.495559	-82.038837	0.0061	0.000	25	Pipeline/ Workspace	Temporary		Field	218
797	spuc061	Ephemeral	Putnam	38.495397	-82.039033	0.0069	0.000	0	Pipeline/ Workspace	Temporary		Field	218
797	spuc062	Ephemeral	Putnam	38.495385	-82.038953	0.0012	0.000	0	Pipeline/ Workspace	Temporary		Field	218
797	wpuc014e	PEM	Putnam	38.495458	-82.038728	0.001	0.000	0	Workspace	Temporary		Field	218
798	spui322	Intermittent	Putnam	38.48855	-82.04624	0.0027	0.000	11	Pipeline/ Workspace	Temporary		Field	219
799	spun819	Ephemeral	Putnam	38.486773	-82.048185	0.0007	0.000	2	Access Road	Temporary		Field	219, 220
800	spun819	Ephemeral	Putnam	38.485985	-82.048057	0.0014	0.000	5	Access Road	Temporary		Field	219, 220
801	spug310	Ephemeral	Putnam	38.484716	-82.050318	0.0001	0.000	1	Cathodic Protection	Temporary		Field	220

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802	spug307	Intermittent	Putnam	38.484481	-82.050121	0.0002	0.000	2	Cathodic Protection	Temporary		Field	220
803	spug308	Ephemeral	Putnam	38.484379	-82.050163	0.00002	0.000	0	Cathodic Protection	Temporary		Field	220
804	spug311	Perennial	Putnam	38.485471	-82.051569	0.0138	0.000	60	Pipeline/ Workspace	Temporary		Field	219, 220
804	wpug303e	PEM	Putnam	38.485463	-82.051698	0.003	0.000	0	Workspace	Temporary		Field	220
805	spug307	Intermittent	Putnam	38.484516	-82.049963	0.000	0.000	0	Access Road - existing	Permanent		Field	220
805	spun820	Perennial	Putnam	38.484401	-82.050289	0.0100	0.000	10	Access Road	Temporary		Field	220
806	spug312	Ephemeral	Putnam	38.485062	-82.051615	0.0028	0.000	4	Access Road	Temporary		Field	220
806	spug312	Ephemeral	Putnam	38.48517	-82.051939	0.0016	0.000	6	Pipeline/ Workspace	Temporary		Field	220
807	spui302	Perennial	Mason	38.481517	-82.0564	0.0117	0.000	37	Pipeline/ Workspace	Temporary		Field	220
808	spui303	Ephemeral	Mason	38.480957	-82.05682	0.0013	0.000	12	Pipeline/ Workspace	Temporary		Field	220
809	scbi303	Ephemeral	Cabell	38.478466	-82.061703	0.0011	0.000	2	Pipeline/ Workspace	Temporary		Field	220, 221
810	scbf306	Perennial	Cabell	38.474661	-82.064398	0.0078	0.000	34	Pipeline/ Workspace	Temporary		Field	221
811	scbf310	Intermittent	Cabell	38.473021	-82.066782	0.0058	0.000	23	Pipeline/ Workspace	Temporary		Field	221
812	scbf316	Ephemeral	Cabell	38.469137	-82.067077	0.0005	0.000	0	Pipeline/ Workspace	Temporary		Field	222
813	scbf301	Perennial	Cabell	38.468835	-82.067038	0.0154	0.000	70	Pipeline/ Workspace	Temporary		Field	221, 222
814	scbf402	Ephemeral	Cabell	38.466328	-82.070479	0.0001	0.000	1	Access Road	Temporary		Field	222
815	scbf401	Perennial	Cabell	38.468013	-82.068706	0.0018	0.000	10	Access Road	Temporary		Field	222
816	scbf403	Perennial	Cabell	38.465397	-82.070949	0.0086	0.000	18	Access Road	Temporary		Field	222
817	scbn800	Intermittent	Cabell	38.465313	-82.069609	0.0014	0.000	6	Access Road	Temporary		Field	222
818	scbn800	Intermittent	Cabell	38.465111	-82.068693	0.0006	0.000	3	Access Road	Temporary		Field	222
818	scbn800	Intermittent	Cabell	38.46509	-82.068575	0.0003	0.000	2	Access Road	Temporary		Field	222
819	scbn803	Ephemeral	Cabell	38.465542	-82.064513	0.0017	0.000	5	Access Road	Temporary		Field	222
820	scbc016	Ephemeral	Cabell	38.465654	-82.0637	0.0011	0.000	0	Pipeline/ Workspace	Temporary		Field	222

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820	scbc017	Ephemeral	Cabell	38.465864	-82.064112	0.0068	0.000	38	Pipeline/ Workspace	Temporary		Field	222
821	scbn802	Ephemeral	Cabell	38.465098	-82.066053	0.0006	0.000	2	Access Road	Temporary		Field	222
822	scbn800	Intermittent	Cabell	38.464956	-82.067311	0.0002	0.000	2	Access Road	Temporary		Field	222
822	scbn801	Ephemeral	Cabell	38.464908	-82.067178	0.0008	0.000	3	Access Road	Temporary		Field	222
823	scbn800	Intermittent	Cabell	38.464974	-82.067852	0.0072	0.000	24	Access Road	Temporary		Field	222
824	scbf403	Perennial	Cabell	38.464218	-82.071695	0.000	0.000	7	Access Road	Temporary		Field	222
825	scbc012	Ephemeral	Cabell	38.457379	-82.067183	0.0088	0.000	31	Pipeline/ Workspace	Temporary		Field	223
825	scbc019	Intermittent	Cabell	38.457195	-82.067101	0.0059	0.000	24	Pipeline/ Workspace	Temporary		Field	223
826	scbc024	Ephemeral	Cabell	38.452192	-82.067202	0.0023	0.000	9	Pipeline/ Workspace	Temporary		Field	224
826	scbc025	Ephemeral	Cabell	38.452115	-82.067159	0.0017	0.000	7	Pipeline/ Workspace	Temporary		Field	224
827	scbc026	Ephemeral	Cabell	38.451892	-82.067463	0.0018	0.000	1	Pipeline/ Workspace	Temporary		Field	224
828	scbc027	Ephemeral	Cabell	38.450271	-82.068305	0.0008	0.000	0	Pipeline/ Workspace	Temporary		Field	224
828	scbc028	Intermittent	Cabell	38.449868	-82.068359	0.009	0.000	45	Pipeline/ Workspace	Temporary		Field	224
829	wpuf301e	PEM	Cabell	38.416596	-82.051286	0.070	0.000	0	Contractor Yard	Temporary		Field	255
829	spuf303	Ephemeral	Putnam	38.416162	-82.051126	0.019	0.000	31	Proposed Yard	Temporary		Field	255
830	scbf005	Ephemeral	Cabell	38.428797	-82.095949	0.0019	0.000	9	Pipeline/ Workspace	Temporary		Field	227
831	scbf324	Perennial	Cabell	38.426867	-82.09105	0.0123	0.000	10	Access Road	Temporary		Field	227
832	scbf007	Ephemeral	Cabell	38.427492	-82.096745	0.0008	0.000	3	Pipeline/ Workspace	Temporary		Field	227
833	scbf322	Perennial	Cabell	38.42476	-82.092256	0.0089	0.000	11	Access Road	Temporary		Field	227
834	scbg503	Ephemeral	Cabell	38.426884	-82.095595	0.0039	0.000	3	Access Road	Temporary		Field	227
835	scbf008	Perennial	Cabell	38.425389	-82.099454	0.0171	0.000	76	Pipeline/ Workspace	Temporary		Field	227, 228
836	scbf014	Ephemeral	Cabell	38.423583	-82.100215	0.0015	0.000	6	Pipeline/ Workspace	Temporary		Field	227, 228
837	wcbf003e	PEM	Cabell	38.421975	-82.100583	0.134	0.000	187	Pipeline/ Workspace	Temporary		Field	228

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838	scbf305	Intermittent	Cabell	38.422623	-82.103908	0.0004	0.000	3	Access Road	Temporary		Field	228
839	scbf016	Ephemeral	Cabell	38.420657	-82.10114	0.0007	0.000	0	Pipeline/Workspace	Temporary		Field	228
840	scbf012	Intermittent	Cabell	38.419387	-82.101645	0.0051	0.000	20	Pipeline/Workspace	Temporary		Field	228
840	scbf013	Ephemeral	Cabell	38.419148	-82.101624	0.0087	0.000	71	Pipeline/Workspace	Temporary		Field	228
841	scbf019	Perennial	Cabell	38.418202	-82.103883	0.0183	0.000	74	Pipeline/Workspace	Temporary		Field	228, 229
842	wcbf004	PFO	Cabell	38.417662	-82.104915	0.133	0.1198	448	Pipeline/Workspace	Permanent	ILF	Field	228, 229
842	wcbf004	PSS	Cabell	38.417442	-82.104845	0.059	0.000	0	Workspace	Temporary		Field	228, 229
842	wcbf004e	PEM	Cabell	38.417292	-82.105020	0.036	0.000	95	Pipeline/Workspace	Temporary		Field	228, 229
843	wcbf004e	PEM	Cabell	38.416326	-82.105182	0.256	0.000	649	Pipeline/Workspace	Temporary		Field	228, 229
843	wcbf004f	PFO	Cabell	38.416393	-82.105150	0.067	0.0364	92	Pipeline/Workspace	Permanent	ILF	Field	228, 229
844	scbf326	Ephemeral	Cabell	38.412866	-82.11475	0.0016	0.000	3	Access Road	Temporary		Field	229
845	scbf325	Ephemeral	Cabell	38.414031	-82.114669	0.0002	0.000	1	Access Road	Temporary		Field	229
846	wcbg201e	PEM	Cabell	38.407795	-82.110119	0.000	0.000	0	Workspace	Temporary		Field	230
847	scbh005	Ephemeral	Cabell	38.405916	-82.112672	0.0023	0.000	9	Pipeline/Workspace	Temporary		Field	230
848	wcbh001s	PSS	Cabell	38.406092	-82.114029	0.122	0.000	0	Pipeline/Workspace	Temporary		Field	230
848	scbh008	Ephemeral	Cabell	38.406013	-82.114431	0.0016	0.000	7	Pipeline/Workspace	Temporary		Field	230
849	scbh007a	Ephemeral	Cabell	38.406117	-82.114828	0.0007	0.000	3	Pipeline/Workspace	Temporary		Field	230
849	wcbf006s	PSS	Cabell	38.406252	-82.115349	0.142	0.0021	18	Pipeline/Workspace	Permanent	ILF	Field	230
849	wcbf006e	PEM	Cabell	38.406215	-82.115346	0.434	0.000	573	Pipeline/Workspace	Temporary		Field	230
850	scbg513	Ephemeral	Cabell	38.403161	-82.118172	0.0008	0.000	3	Access Road	Temporary		Field	230
851	scbf024	Ephemeral	Cabell	38.406984	-82.121905	0.0024	0.000	9	Pipeline/Workspace	Temporary		Field	230
852	wcbf005e	PEM	Cabell	38.405820	-82.127029	0.054	0.000	160	Pipeline/Workspace	Temporary		Field	231
852	scbf022	Ephemeral	Cabell	38.405992	-82.127058	0.0015	0.000	2	Pipeline/Workspace	Temporary		Field	231
853	scbh002	Perennial	Cabell	38.406166	-82.128804	0.085	0.000	345	Pipeline/Workspace	Temporary		Field	231

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854	scbh001	Ephemeral	Cabell	38.406461	-82.129411	0.0036	0.000	16	Pipeline/ Workspace	Temporary		Field	231
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855	sdog075	Intermittent	Doddridge	39.256751	-80.719782	0.0095	0.000	43	Pipeline/ Workspace	Temporary		Field	233, 234
855	sdog076	Ephemeral	Doddridge	39.256649	-80.719591	0.001	0.000	0	Pipeline/ Workspace	Temporary		Field	234
856	sdog078	Intermittent	Doddridge	39.250262	-80.711391	0.011	0.000	43	Pipeline/ Workspace	Temporary		Field	234, 235
857	sdoi405	Ephemeral	Doddridge	39.244682	-80.705478	0.0006	0.000	1	Access Road	Temporary		Field	235, 236
858	sdoi406	Ephemeral	Doddridge	39.240633	-80.707324	0.0007	0.000	2	Access Road	Temporary		Field	236
858	sdoi408	Ephemeral	Doddridge	39.240632	-80.707401	0.00002	0.000	1	Access Road	Temporary		Field	236
859	sdoi410	Intermittent	Doddridge	39.241954	-80.704141	0.0021	0.000	6	Access Road	Temporary		Field	236
860	sdoi410	Intermittent	Doddridge	39.242025	-80.703972	0.0009	0.000	3	Access Road	Temporary		Field	236
861	sdoi410	Intermittent	Doddridge	39.242046	-80.703496	0.0028	0.000	8	Access Road	Temporary		Field	236
861	sdoi410	Intermittent	Doddridge	39.242028	-80.703106	0.005	0.000	12	Access Road	Temporary		Field	236
861	sdoi410	Intermittent	Doddridge	39.242054	-80.702429	0.0174	0.000	37	Access Road	Temporary		Field	236
862	sdog310	Intermittent	Doddridge	39.242128	-80.701211	0.0026	0.000	10	Pipeline/ Workspace	Temporary		Field	236
862	sdog311	Intermittent	Doddridge	39.242231	-80.700568	0.0051	0.000	16	Access Road	Temporary		Field	236
863	sdog310	Intermittent	Doddridge	39.242175	-80.700615	0.0048	0.000	11	Access Road	Temporary		Field	236
863	sdog310	Intermittent	Doddridge	39.242105	-80.699326	0.0063	0.000	15	Access Road	Temporary		Field	236
863	sdog311	Intermittent	Doddridge	39.242101	-80.699639	0.0046	0.000	16	Access Road	Temporary		Field	236
864	sdog310	Intermittent	Doddridge	39.242204	-80.698581	0.0042	0.000	12	Access Road	Temporary		Field	236
864	sdog310	Intermittent	Doddridge	39.242389	-80.697469	0.0146	0.000	32	Access Road	Temporary		Field	236
864	sdog310_a lt	Ephemeral	Doddridge	39.242171	-80.698898	0.0126	0.000	13	Access Road	Temporary		Field	236
864	sdog310_a lt	Ephemeral	Doddridge	39.242245	-80.698131	0.0171	0.000	17	Access Road	Temporary		Field	236
864	sdog312	Ephemeral	Doddridge	39.24209	-80.699302	0.0002	0.000	1	Access Road	Temporary		Field	236
864	sdog313	Ephemeral	Doddridge	39.242096	-80.69924	0.0002	0.000	1	Access Road	Temporary		Field	236

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864	sdog314	Ephemeral	Doddridge	39.242353	-80.697656	0.0006	0.000	1	Access Road	Temporary		Field	236
864	sdog315	Ephemeral	Doddridge	39.242385	-80.697546	0.0003	0.000	1	Access Road	Temporary		Field	236
864	sdog310	Intermittent	Doddridge	39.242531	-80.696941	0.0027	0.000	7	Access Road	Temporary		Field	236
864	sdog310	Intermittent	Doddridge	39.242718	-80.695988	0.0154	0.000	34	Access Road	Temporary		Field	236
864	sdog310	Intermittent	Doddridge	39.242929	-80.695299	0.0011	0.000	4	Access Road	Temporary		Field	236
864	sdog310_a lt	Ephemeral	Doddridge	39.242656	-80.696184	0.0288	0.000	42	Access Road	Temporary		Field	236
865	sdog307	Perennial	Doddridge	39.242311	-80.693795	0.0027	0.000	20	Access Road	Temporary		Field	236
866	sdog307	Perennial	Doddridge	39.241516	-80.694044	0.0019	0.000	14	Access Road	Temporary		Field	236
867	sdog308	Ephemeral	Doddridge	39.241414	-80.694148	0.0025	0.000	8	Access Road	Temporary		Field	236
868	sdoa003_e xt	Ephemeral	Doddridge	39.238886	-80.700259	0.0025	0.000	4	Access Road	Temporary		Field	236
869	sdog306	Ephemeral	Doddridge	39.240643	-80.694503	0.0049	0.000	5	Access Road	Temporary		Field	236
869	wdog301e	PEM	Doddridge	39.240498	-80.694629	0.003	0.000	0	Access Road	Temporary		Field	236
869	wdog301e	PEM	Doddridge	39.240374	-80.694745	0.004	0.000	0	Access Road	Temporary		Field	236
870	wdog301e	PEM	Doddridge	39.240213	-80.694905	0.002	0.000	0	Access Road	Temporary		Field	236
871	sdoa003	Ephemeral	Doddridge	39.238352	-80.69876	0.0091	0.000	40	Pipeline/ Workspace	Temporary		Field	236, 237
872	sdoi416	Ephemeral	Doddridge	39.2378	-80.696101	0.0005	0.000	1	Access Road	Temporary		Field	236, 237
873	sdoa003	Ephemeral	Doddridge	39.237737	-80.695807	0.0005	0.000	1	Access Road	Temporary		Field	236, 237
874	sdoh022	Perennial	Doddridge	39.234703	-80.69604	0.0263	0.000	100	Pipeline/ Workspace	Temporary		Field	237
875	sdog301	Perennial	Doddridge	39.225969	-80.697419	0.000	0.000	0	Access Road - existing	Temporary		Field	238
876	sdoh024	Ephemeral	Doddridge	39.220507	-80.688802	0.0065	0.000	28	Pipeline/ Workspace	Temporary		Field	239
877	sdog081	Intermittent	Doddridge	39.217052	-80.685297	0.0054	0.000	22	Pipeline/ Workspace	Temporary		Field	239, 242
877	sdog082	Ephemeral	Doddridge	39.216834	-80.685144	0.0041	0.000	4	Pipeline/ Workspace	Temporary		Field	239, 242
878	sdog088b	Ephemeral	Doddridge	39.210904	-80.679636	0.0068	0.000	28	Pipeline/ Workspace	Temporary		Field	242

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878	wdog009e	PEM	Doddridge	39.210994	-80.679507	0.027	0.000	0	Workspace	Temporary		Field	242
879	sdog088a	Perennial	Doddridge	39.210962	-80.679256	0.0234	0.000	97	Pipeline/Workspace	Temporary		Field	242
880	sdog336	Intermittent	Doddridge	39.211102	-80.678393	0.0022	0.000	9	Pipeline/Workspace	Temporary		Field	242
880	sdog337	Intermittent	Doddridge	39.211078	-80.678542	0.0022	0.000	9	Pipeline/Workspace	Temporary		Field	242
880	wdog303e	PEM	Doddridge	39.211070	-80.678468	0.073	0.000	129	Pipeline/Workspace	Temporary		Field	242
880	wdog303s	PSS	Doddridge	39.211151	-80.678459	0.016	0.0007	8	Pipeline/Workspace	Permanent	Foster Run MB	Field	242
881	wdog304e	PEM	Doddridge	39.211656	-80.678127	0.019	0.000	0	Cathodic Protection	Temporary		Field	242
882	sdoi424	Ephemeral	Doddridge	39.211889	-80.678087	0.0006	0.000	1	Cathodic Protection	Temporary		Field	242
883	wdog304e	PEM	Doddridge	39.211160	-80.677958	0.050	0.000	82	Workspace	Temporary		Field	242
883	wdog304f	PFO	Doddridge	39.211194	-80.677870	0.026	0.0148	57	Pipeline/Workspace	Permanent	Foster Run MB	Field	242
SM-80 Line													
884	scbg510	Ephemeral	Cabell	38.418818	-82.226405	0.0031	0.000	5	Proposed Yard	Temporary		Field	256
885	scbf327	Perennial	Cabell	38.383611	-82.280228	0.000	0.000	0	Access Road - existing	Permanent		Field	257
SM-80 Loop Line													
886	scbf317	Ephemeral	Cabell	38.37797	-82.299199	0.000	0.000	0	Access Road - existing	Permanent		Field	258
887	scbf318	Ephemeral	Cabell	38.378336	-82.300402	0.000	0.000	0	Access Road - existing	Permanent		Field	258
888	scbf319	Ephemeral	Cabell	38.378822	-82.301789	0.000	0.000	0	Access Road - existing	Permanent		Field	258
889	scbf321	Intermittent	Cabell	38.376954	-82.297462	0.000	0.000	0	Access Road - existing	Permanent		Field	258
890	scbg901	Perennial	Cabell	38.378616	-82.29475	0.0008	0.000	8	Access Road	Temporary		Field	258
X59M1 Tie-In													
891	sjag357	Ephemeral	Jackson	38.736054	-81.683018	0.003	0.000	16	Pipeline/Workspace	Temporary		Field	180, 181

**Aquatic Resources Crossed by the Mountaineer XPress Project
U.S. Army Corps of Engineers – Huntington District**

Single and Complete Crossing No.	Unique ID	Flow Regime/ Cowardin Class ^a	County	Latitude	Longitude	Temporary Construction Impact Area (Acres) ^b	Permanent Construction Impact Area (Acres) ^{b, c}	Volume (Cubic Yards) ^d	Workspace Type ^e	Impact Type ^f	Mitigation (Bank and/or ILF)	Delineation Type	Figure A-7 Page No.
^a Wetland class according to Cowardin et al. (1979): PEM = palustrine emergent PSS = palustrine scrub-shrub PFO = palustrine forested													
^b Temporary or permanent construction impact acres are calculated based on the location of the features in the workspace. The impact area includes the acres within the workspace that will be affected by the pipeline trench, cathodic protection trench, timber mats, or access road culverts.													
^c Operational requirements allow a 10-foot-wide corridor centered over the pipeline to be maintained in herbaceous vegetation, and for the removal of trees within 15 feet on either side of the pipeline. To determine the permanent conversion impacts on scrub-shrub wetlands, a 10-foot-wide corridor centered over the pipeline was assessed. A 30-foot-wide corridor centered over the pipeline was assessed for the permanent conversion of forested wetlands. Because the easement will be maintained in herbaceous vegetation, there will be no operational impacts on emergent wetlands.													
^d Volumes are based on an estimated pipeline trench diameter of 5 feet wide at the bottom of the trench, 15 feet wide at the top of the trench, and approximately 8 foot trench depth; volume for culverts is based on an estimated trench of 5 feet wide and 3 feet deep.													
^e Temporary construction impact acres affecting the same feature are split by workspace type and are listed in separate rows.													
^f HDD = horizontal directional drill													
^g Wetland wpui006s was filled by others and no longer exists as observed during 9/28/2016 site visit with the U.S. Army Corps of Engineers. All values for this wetland have been changed to 0.													

Permit Number: LRH-2015-736-OHR

Name of Permittee: Columbia Gas Transmission, LLC

Date of Issuance: February 2018

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

Huntington District
U. S. Army Corps of Engineers
502 8th Street
Huntington, West Virginia 25701-2070
Attn: RD-E

Please note that your permitted activity is subject to a compliance inspection by an U. S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee _____ Date _____

PM - CARSON

NATIONWIDE PERMITS FOR THE STATE OF WEST VIRGINIA

U.S. ARMY CORPS OF ENGINEERS (CORPS) REGULATORY PROGRAM REISSUANCE AND ISSUANCE OF NATIONWIDE PERMITS WITH WVDEP WATER QUALITY CERTIFICATION

NWP 12

Utility Line Activities. Activities required for the construction, maintenance, repair, and removal of utility lines and associated facilities in waters of the United States, provided the activity does not result in the loss of greater than 1/2-acre of waters of the United States for each single and complete project.

Utility lines: This NWP authorizes discharges of dredged or fill material into waters of the United States and structures or work in navigable waters for crossings of those waters associated with the construction, maintenance, or repair of utility lines, including outfall and intake structures. There must be no change in pre-construction contours of waters of the United States. A "utility line" is defined as any pipe or pipeline for the transportation of any gaseous, liquid, liquescent, or slurry substance, for any purpose, and any cable, line, or wire for the transmission for any purpose of electrical energy, telephone, and telegraph messages, and internet, radio, and television communication. The term "utility line" does not include activities that drain a water of the United States, such as drainage tile or french drains, but it does apply to pipes conveying drainage from another area.

Material resulting from trench excavation may be temporarily sidecast into waters of the United States for no more than three months, provided the material is not placed in such a manner that it is dispersed by currents or other forces. The district engineer may extend the period of temporary side casting for no more than a total of 180 days, where appropriate. In wetlands, the top 6 to 12 inches of the trench should normally be backfilled with topsoil from the trench. The trench cannot be constructed or backfilled in such a manner as to drain waters of the United States (e.g., backfilling with extensive gravel layers, creating a french drain effect). Any exposed slopes and stream banks must be stabilized immediately upon completion of the utility line crossing of each waterbody.

Utility line substations: This NWP authorizes the construction, maintenance, or expansion of substation facilities associated with a power line or utility line in non-tidal waters of the United States, provided the activity, in combination with all other activities included in one single and complete project, does not result in the loss of greater than 1/2-acre of waters of the United States. This NWP does not authorize discharges into non-tidal wetlands adjacent to tidal waters of the United States to construct, maintain, or expand substation facilities.

Foundations for overhead utility line towers, poles, and anchors: This NWP authorizes the construction or maintenance of foundations for overhead utility line towers, poles, and anchors in all waters of the United States, provided the foundations are the minimum size necessary and separate footings for each tower leg (rather than a larger single pad) are used where feasible.

Access roads: This NWP authorizes the construction of access roads for the construction and maintenance of utility lines, including overhead power lines and utility line substations, in non-tidal waters of the United States, provided the activity, in combination with all other activities included in one single and complete project, does not cause the loss of greater than 1/2-acre of non-tidal waters of the United States. This NWP does not authorize discharges into non-tidal wetlands adjacent to tidal waters for access roads. Access roads must be the minimum width necessary (see Note 2, below). Access roads must be constructed so that the length of the road minimizes any adverse effects on waters of the United States and must be as near as possible to pre-construction contours and elevations (e.g., at grade corduroy roads or geotextile/gravel roads). Access roads constructed above pre-construction contours and elevations in waters of the United States must be properly bridged or culverted to maintain surface flows.

This NWP may authorize utility lines in or affecting navigable waters of the United States even if there is no associated discharge of dredged or fill material (See 33 CFR part 322). Overhead utility lines constructed over section 10 waters and utility lines that are routed in or under section 10 waters without a discharge of dredged or fill material require a section 10 permit.

This NWP authorizes, to the extent that Department of the Army authorization is required, temporary structures, fills, and work necessary for the remediation of inadvertent returns of drilling fluids to waters of the United States through sub-soil fissures or fractures that might occur during horizontal directional drilling activities conducted for the purpose of installing or replacing utility lines. These remediation activities must be done as soon as practicable, to restore the affected waterbody. District engineers may add special conditions to this NWP to require a remediation plan for addressing inadvertent returns of drilling fluids to waters of the United States during horizontal directional drilling activities conducted for the purpose of installing or replacing utility lines.

This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to conduct the utility line activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. After construction, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if any of the following criteria are met: (1) the activity involves mechanized land clearing in a forested wetland for the utility line right-of-way; (2) a section 10 permit is required; (3) the utility line in waters of the United States, excluding overhead lines, exceeds 500 feet; (4) the utility line is placed within a jurisdictional area (i.e., water of the United States), and it runs parallel to or along a stream bed that is within that jurisdictional area; (5) discharges that result in the loss of greater than 1/10-acre of waters of the United States; (6) permanent access roads are constructed above grade in waters of the United States for a distance of more than 500 feet; or (7) permanent access roads are constructed in

waters of the United States with impervious materials. (See general condition 32.) (Authorities: Sections 10 and 404)

Note 1: Where the utility line is constructed or installed in navigable waters of the United States (i.e., section 10 waters) within the coastal United States, the Great Lakes, and United States territories, a copy of the NWP verification will be sent by the Corps to the National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), for charting the utility line to protect navigation.

Note 2: For utility line activities crossing a single waterbody more than one time at separate and distant locations, or multiple waterbodies at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. Utility line activities must comply with 33 CFR 330.6(d).

Note 3: Utility lines consisting of aerial electric power transmission lines crossing navigable waters of the United States (which are defined at 33 CFR part 329) must comply with the applicable minimum clearances specified in 33 CFR 322.5(i).

Note 4: Access roads used for both construction and maintenance may be authorized, provided they meet the terms and conditions of this NWP. Access roads used solely for construction of the utility line must be removed upon completion of the work, in accordance with the requirements for temporary fills.

Note 5: Pipes or pipelines used to transport gaseous, liquid, liquescent, or slurry substances over navigable waters of the United States are considered to be bridges, not utility lines, and may require a permit from the U.S. Coast Guard pursuant to section 9 of the Rivers and Harbors Act of 1899. However, any discharges of dredged or fill material into waters of the United States associated with such pipelines will require a section 404 permit (see NWP 15).

Note 6: This NWP authorizes utility line maintenance and repair activities that do not qualify for the Clean Water Act section 404(f) exemption for maintenance of currently serviceable fills or fill structures.

Note 7: For overhead utility lines authorized by this NWP, a copy of the PCN and NWP verification will be provided to the Department of Defense Siting Clearinghouse, which will evaluate potential effects on military activities.

Note 8: For NWP 12 activities that require pre-construction notification, the PCN must include any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings that require Department of the Army authorization but do not require pre-construction notification (see paragraph (b) of general condition 32). The district engineer will evaluate the PCN in accordance with Section D, "District Engineer's Decision." The district engineer may require mitigation to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see general condition 23).

Corps NWP 12 Specific Regional Conditions:

- a. PCN in accordance with NWP General Condition 32 is required for all permanent conversion of scrub/shrub and forested wetlands and greater than 1/10 of an acre of temporary discharge of dredged or fill material into all wetlands.
- b. For all horizontal directional drilling activities requiring authorization from the Corps pursuant to Section 10 of the Rivers and Harbors Act of 1899, the PCN must include a drilling mud clean-up plan as a contingency for an inadvertent return of drilling mud to the surface.
- c. The PCN must include a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions.
- d. Anti-seep collars or clay plugs must be utilized for trenching activities conducted in a perennial or intermittent stream or a wetland.
- e. Should an inadvertent return of drilling mud occur during a directional drilling activity, and the clean-up of drilling muds necessitates the use of NWP 12 the permittee must report to the Corps the location and circumstances of the clean-up after the work has been conducted unless a PCN is otherwise required.

NWP 12 West Virginia 401 Water Quality Certification Special Conditions:

- A. Individual State Water Quality Certification is required for
 - i. Pipelines equal to or greater than 36 inches in diameter;
 - ii. Pipelines crossing a Section 10 river (unless the bore is greater than 100 feet below the stream bed on the Ohio River mainstem, or greater than 50 feet below the stream bed on all other Section 10 waters);
 - iii. Pipelines transporting hazardous materials/substances as defined by the Toxic Substances Control Act;
 - iv. Utility lines within wetlands that would use or consider the use of herbicides for right-of-way maintenance;
 - v. Cumulative permanent impacts totaling greater than 200 linear feet, on one side, of any stream identified in Condition 18 A, B, and C herein;
 - vi. Cumulative permanent impacts on any one perennial or intermittent stream totaling greater than 300 linear feet;
 - vii. Pipelines carrying separated natural gas liquids, unless installed with an automated system which will indicate a sudden loss of pressure.
- B. Points of ingress and egress to streams for equipment shall be within the permitted area of disturbance.
- C. Individual stream crossings must be completed in a continuous, progressive manner and within 72 hours during seasonal normal or below normal stream flow conditions. Crossings on the Ohio River, Kanawha River, New River, Monongahela River, and the

Little Kanawha River, below the confluence with Hughes Rivers, are exempt from the 72-hour requirements. All stream activities shall be completed as rapidly as possible.

- D.** Equipment tracking in wetlands will utilize protective mats when practical. Restoration of the disturbed areas will be completed within 72 hours of the completion of pipeline installation across the watercourse.
- E.** Surface disturbance will not extend beyond the right-of-way limits and construction easements. Stream crossings will be conducted as close to a right angle to the watercourse as practical and the area of disturbance will be limited to reduce in stream activity.
- F.** Dredging for backfill material is not allowed.
- G.** Submarine pipeline stream crossings (including horizontal directional drilling) must be designed and constructed to prevent flotation and the possibility of leakage or rupture and the top of pipelines must be buried a minimum of three (3) feet below the stream bottom.
- H.** Horizontal directional drilling for underwater crossings requires an Inadvertent Return Contingency Plan certified by a West Virginia Professional Engineer to be kept on site and made available upon request.
- I.** Where it is apparent that small boats, inner tubes, swimmers, etc. could be using the stream in the work area, easily seen warning signs must be placed a minimum of 50 feet upstream and downstream of the stream crossings construction site to advise stream users of the potential danger.
- J.** Prior written notification to West Virginia Department of Environmental Protection, Division of Water and Waste Management (WV DEP DWWM) is required when this permit is being used for vented low water crossings.
- K.** Forty-five-day advance notification prior to withdrawal must be provided to WV DEP DWWM when this permit is being used for water withdrawal, allowing for a determination of whether the water withdrawal will have more than minimal impacts on aquatic resources, thus necessitating further review or an individual certification. Information to be provided is as follows:
 - i. the maximum water withdrawal rate;
 - ii. designs to minimize impingement and entrainment of aquatic life, and
 - iii. a description of how the intake rate will affect streamflow, or be varied, during periods of seasonal low flow and/or drought.
- L.** No structure authorized by this permit shall impede or prevent fish movement upstream or downstream.
- M.** At each stream crossing, substrate in the channel is to be removed and stockpiled separately from other excavated material. This native material must be reused in restoration of the stream channel and, upon final stream bed restoration, the stream must have similar substrate pattern, profile, dimension and embeddedness of the original stream

channel. At each wetland crossing, the top 12 inches of soil are to be removed and stockpiled separately from other excavated material. This native material must be reused in restoration of the wetland.

- N. Waterbody banks are to be returned as close as practicable to preconstruction contours. Riparian areas shall be revegetated with native species of conservation grasses, legumes, and woody species (of low determinate growth), similar in density to adjacent undisturbed lands. Routine mowing or clearing adjacent to waterbodies shall be limited to allow a riparian strip at least 25 feet wide, as measured from the waterbody's mean high water mark, to permanently revegetate with native plant species across the entire construction right-of-way. However, to facilitate periodic corrosion/leak surveys, a corridor centered on the pipeline and up to 10 feet wide may be cleared at a frequency necessary to maintain the 10-foot corridor in an herbaceous state. In addition, trees that are located within 15 feet of the pipeline that have roots that could compromise the integrity of the pipeline coating may be cut and removed from the permanent right-of-way. Seeding recommendations can be found in West Virginia Division of Natural Resources' publication, "Enhancing Wildlife Habitat on Oil & Gas Infrastructure."

1. **Navigation.** (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. **Aquatic Life Movements.** No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. **Spawning Areas.** Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. The permittee shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

(c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: <http://www.rivers.gov/>.

17. Tribal Rights. No NWP activity may cause more than minimal adverse effects on tribal rights (including treaty rights), protected tribal resources, or tribal lands.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless ESA section 7 consultation addressing the effects of the proposed activity has been completed. Direct effects are the immediate effects on listed species and critical habitat caused by the NWP activity. Indirect effects are those effects on listed species and critical habitat that are caused by the NWP activity and are later in time, but still are reasonably certain to occur.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate

compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed activity or that utilize the designated critical habitat that might be affected by the proposed activity. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have "no effect" on listed species or critical habitat, or until ESA section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWP.

(e) Authorization of an activity by an NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA

section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

(g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.nmfs.noaa.gov/pr/species/esa/> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting appropriate local office of the U.S. Fish and Wildlife Service to determine applicable measures to reduce impacts to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act. If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral

history interviews, sample field investigation, and field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect. Where the non-Federal applicant has identified historic properties on which the activity might have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed.

(d) For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWP 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation to ensure that the activity results in no more than minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)).

(e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. Restored riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWPs, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

(2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f)).

(3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

(4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs.

(h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. **Coastal Zone Management.** In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. **Regional and Case-By-Case Conditions.** The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. **Use of Multiple Nationwide Permits.** The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. **Transfer of Nationwide Permit Verifications.** If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

(Transferee)

(Date)

30. **Compliance Certification.** Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the

permittee the certification document with the NWP verification letter. The certification document will include:

- (a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;
- (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and
- (c) The signature of the permittee certifying the completion of the activity and mitigation.

The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. Activities Affecting Structures or Works Built by the United States. If an NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission is not authorized by NWP until the appropriate Corps office issues the section 408 permission to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. Pre-Construction Notification. (a) **Timing.** Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

- (1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or
- (2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that

listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

- (1) Name, address and telephone numbers of the prospective permittee;
- (2) Location of the proposed activity;
- (3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;
- (4) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures. For single and complete linear projects, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-Federal permittees, if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed activity or utilize the designated critical habitat that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-Federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and

(10) For an activity that requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from the Corps office having jurisdiction over that USACE project.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is an NWP PCN and must include all of the applicable information required in paragraphs (b)(1) through (10) of this general condition. A letter containing the required information may also be

used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWP's and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal.

(2) Agency coordination is required for: (i) all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of stream bed; (iii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iv) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

(3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWP's, including the need for mitigation to ensure the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

District Engineer's Decision

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If a project proponent requests authorization by a specific NWP, the district engineer should issue the NWP verification for that activity if it meets the terms and conditions of that NWP, unless he or she determines, after considering mitigation, that the proposed activity will result in more than minimal individual and cumulative adverse effects on the aquatic environment and other aspects of the public interest and exercises discretionary authority to require an individual permit for the proposed activity. For a linear project, this determination will include an evaluation of the individual crossings of waters of the United States to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings authorized by NWP. If an applicant requests a waiver of the 300 linear foot limit on impacts to streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51, 52, or 54, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in only minimal individual and cumulative adverse environmental effects. For those NWPs that have a waivable 300 linear foot limit for losses of intermittent and ephemeral stream bed and a 1/2-acre limit (i.e., NWPs 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52), the loss of intermittent and ephemeral stream bed, plus any other losses of jurisdictional waters and wetlands, cannot exceed 1/2-acre.

2. When making minimal adverse environmental effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. He or she will also consider the cumulative adverse environmental effects caused by activities authorized by NWP and whether those cumulative adverse environmental effects are no more than minimal. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional or condition assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse environmental effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

3. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for NWP activities with smaller impacts, or for impacts to other types of waters (e.g., streams). The district engineer will consider any proposed compensatory mitigation or other mitigation measures the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed activity

are no more than minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are no more than minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure the NWP activity results in no more than minimal adverse environmental effects. If the net adverse environmental effects of the NWP activity (after consideration of the mitigation proposal) are determined by the district engineer to be no more than minimal, the district engineer will provide a timely written response to the applicant. The response will state that the NWP activity can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

4. If the district engineer determines that the adverse environmental effects of the proposed activity are more than minimal, then the district engineer will notify the applicant either: (a) that the activity does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the activity is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal; or (c) that the activity is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse environmental effects, the activity will be authorized within the 45-day PCN period (unless additional time is required to comply with general conditions 18, 20, and/or 31, or to evaluate PCNs for activities authorized by NWPs 21, 49, and 50), with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation plan or a requirement that the applicant submit a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal. When compensatory mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

Further Information

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.

2. NWP's do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWP's do not grant any property rights or exclusive privileges.
4. NWP's do not authorize any injury to the property or rights of others.
5. NWP's do not authorize interference with any existing or proposed Federal project (see general condition 31).

Nationwide Permits Regional General Conditions

1. ***Full Agency Pre-Construction Notification (PCN)***: To the extent possible, applicants are encouraged to submit a complete compact disc (CD) copy for any PCN package greater than 15 pages and/or includes maps, drawings, spreadsheets or other similar materials which are larger than 8.5 inches by 11 inches. All files saved on CDs should be in .pdf format. A hard copy of any oversized maps, drawings, spreadsheets etc. in the PCN package should be submitted and accompany the complete CD. An index or table of contents should be provided and correspond with each file saved on the CD and/or within the PCN hard copy.
2. ***United States Fish & Wildlife Service (USFWS)***: Due to the potential presence of federally listed endangered and threatened (T&E) species or their habitats, including critical habitat, within the state of West Virginia, PCN in accordance with Nationwide Permit Condition 32 is required for any activity in the waterways listed in Appendix A. Sufficient information must be provided in the PCN to determine the proposed activity's compliance with NWP General Condition 18. Applicants are encouraged to contact the USFWS, West Virginia Field Office, Ecological Services by phone at (304) 636-6586 or by writing to 694 Beverly Pike, Elkins, West Virginia, 26241 prior to the submittal of a PCN. The USFWS can provide information to assist in complying with NWP General Condition 18 pertaining to endangered species and NWP General Condition 19 pertaining to migratory birds and bald and golden eagles. All relevant information obtained from the USFWS should be submitted with the PCN. The current list of waterways supporting federally listed T&E species in West Virginia is provided as Appendix A. Perspective applicants are encouraged to contact the USFWS West Virginia Field Office to obtain the most updated information regarding potential locations known to inhabit T&E species.
3. All regulated activities located in the waterways listed below require PCN in accordance with NWP General Condition 32:
 - New River;
 - Bluestone River from the upstream boundary of Pipestem Park to Bluestone Reservoir;
 - Meadow River from an area near the US 19 Bridge to its junction with the Gauley River;
 - All streams within the Monongahela National Forest designated as National Wild

and Scenic Study Rivers;

- All streams and other bodies of water in State and National Forests and Recreation Areas (included are streams and bodies of water located within the Spruce Knob, Seneca Rocks and Gauley River National Recreation Areas); and
- Streams and their tributaries as contained within the boundaries of the designated National Wilderness Areas or the headwaters of such rivers and their tributaries; Cranberry River, Red Creek, Laurel Fork and Otter Creek.

The Corps will consult with National Park Service and/or the United States Forest Service upon receipt of the PCN.

4. Due to the ecological significance of the following waterways, all regulated activities located in these waterways require PCN in accordance with NWP General Condition 32:

- Greenbrier River from its confluence with Knapps Creek to its confluence with the New River;
- Anthony Creek from its headwaters to its confluence with the Greenbrier River;
- Cranberry River from its headwaters to its confluence with the Gauley River;
- Birch River from Cora Brown Bridge in Nicholas County to its confluence with the Elk River; and
- New River from its confluence with the Greenbrier River to its confluence with the Gauley River.

5. **Historic Properties:** Sufficient information must be provided in the PCN to determine the proposed activity's compliance with NWP General Condition 20. To ensure compliance with NWP General Condition 20, the following project information should be provided:

- A detailed description of the project site in its current condition (i.e. prior to construction activities) including information on the terrain and topography of the site, the acreage of the site, the proximity of the site to major waterways, and any known disturbances within the site. Photographs and mapping are also needed which show the site conditions and all buildings or structures within the project site and on adjacent parcels.
- A detailed description of past land uses in the project site. Photographs and maps supporting past land uses should be provided as available.
- A detailed description of the construction activities proposed to take place on the site and a description of how the site will look after completion of the project compared to how it looked before the project.
- Information regarding any past cultural resource studies or coordination pertinent to the project area, if available.
- Any other data the applicant deems pertinent.

The applicant is encouraged to consult with professionals meeting the Professional Qualification Standards as set forth in the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation (48 FR 44716) during this data gathering process. These professionals can assist with compiling the project information discussed above and should provide recommendations as to whether the proposal has the potential to affect historic properties and if further effort is needed to identify or assess potential effects to historic properties. These professionals can also compile preliminary review information to submit to the district engineer. A preliminary review encompasses a search radius of 2 miles from the project area, and consists of the following:

- United States Geological Survey (USGS) 7.5' series topographic maps;
- West Virginia Division of Culture and history files including:
- Historic Property Inventory (HPI) Form;
- Archaeological Site Forms;
- Cemetery Inventory Forms;
- National Register of Historic Places (NRHP) nomination forms including Historic Districts; and
- County atlases, histories and historic USGS 15' series topographic map(s).

As an alternative to submitting the information described above, the applicant may choose to request comments from the West Virginia Division of Culture and History (State Historic Preservation Office) and the District Engineer on specific requirements appropriate to the particular circumstances of the project. Be advised, undertaking identification efforts prior to consideration of the potential of the proposed activity to affect historic properties by the Corps is not without risk. It is possible that previous efforts could be determined insufficient or even potentially unnecessary once reviewed by the Corps and other consulting parties.

Upon receipt and review of the information listed above, the Corps will evaluate the submittal. If the Corps determines the proposed activity has the potential to cause effects to a historic property, the Corps will seek consulting parties. In consultation with those parties, the Corps will scope appropriate historic property identification efforts and take into account the effect of the proposed activity on historic properties.

Appendix A

Aquatic Habitats Supporting Federally listed Endangered and Threatened Species, and Proposed Endangered Species in West Virginia

There are seventeen federally listed endangered and threatened or proposed endangered species that are associated with specific aquatic habitats in West Virginia. These include ten endangered freshwater mussels - clubshell (*Pleurobema clava*), fanshell (*Cyprogenia stegaria*), James spinymussel (*Pleurobema collina*), northern riffleshell (*Epioblasma torulosa rangiana*), pink mucket pearlymussel (*Lampsilis abrupta*), rayed bean (*Villosa fabilis*), sheepnose (*Plethobasus cyphus*), snuffbox (*Epioblasma triquetra*), spectaclecase (*Cumberlandia monodonta*), and tubercled-blossum pearlymussel (*Epioblasma torulosa*)

torulosa); two endangered plants - Harperella (*Ptilimnium nodosum*) and northeastern bulrush (*Scirpus ancistrochaetus*); one threatened plant - Virginia spiraea (*Spiraea virginiana*); two threatened crustaceans - Madison Cave isopod (*Antrolana lira*) and Big Sandy crayfish (*Cambarus callainus*); one endangered crustacean - Guyandotte River crayfish (*Cambarus veteranus*); and one endangered fish - diamond darter (*Crystallaria cincotta*). Nine other listed species not associated with specific aquatic habitats also occur in West Virginia. Those species are not addressed here.

U.S. Army Corps of Engineers Huntington District

1. Big Sandy Creek: Kanawha County: Snuffbox.
2. Bluestone River: Mercer and Summers Counties (Bluestone Gorge to slackwater of Bluestone Reservoir): Virginia spiraea.
3. Cedar Creek: Braxton and Gilmer Counties: Snuffbox.
4. Clear Fork: Wyoming County: Guyandotte River crayfish
5. Cove Creek: Monroe County: James spinymussel.
6. Elk River: Braxton, Clay, and Kanawha Counties (Sutton Dam to slackwater below Coonskin Park), including the lower one-half mile reaches of its tributaries Birch River, Blue Creek, and Laurel Creek: Clubshell, pink mucket pearl mussel, northern riffleshell, rayed bean, and snuffbox. The Elk River also contains the diamond darter (endangered). Critical habitat for this species is from King Shoals to slackwater below Coonskin Park.
7. Gauley River: Fayette and Nicholas Counties (Summersville Dam to Swiss): Virginia spiraea.
8. Greenbrier River: Greenbrier and Pocahontas Counties: *Virginia spiraea*.
9. Henry Fork: Calhoun and Roane Counties: Snuffbox.
10. Hughes River: Ritchie and Wirt Counties, including the lower one-half mile reach of its tributary Goose Creek: Snuffbox.
11. Kanawha River: Fayette, Kanawha, Mason, and Putnam Counties: Fanshell, pink mucket pearl mussel, sheepsnose, spectaclecase, and tubercled-blossum pearl mussel.
12. Leading Creek: Gilmer and Lewis Counties, including the lower one-half mile reach of its tributary Fink Creek: Snuffbox.

13. Little Kanawha River: Braxton, Calhoun, Gilmer, Wirt, and Wood Counties, including the lower one-half mile reaches of its tributaries Leading Creek (Calhoun County), Pine Creek, Sand Fork, Slate Creek, Straight Creek, Tanner Creek, Tucker Creek, and Walker Creek: Clubshell and snuffbox.
14. Marsh Fork River including Dingess Branch and Millers Camp Branch and associated palustrine emergent and scrub-shrub wetlands: Raleigh County: Virginia spiraea.
15. McElroy Creek: Doddridge and Tyler Counties: Snuffbox.
16. Meadow River: Fayette, Greenbrier, and Nicholas Counties: Virginia spiraea.
17. Meathouse Fork of Middle Island Creek: Doddridge County, including the lower one-half mile reach of its tributary Toms Fork: Clubshell and snuffbox.
18. Middle Island Creek: Doddridge, Pleasants, and Tyler Counties, including the lower one-half mile reaches of its tributaries Arnold Creek, Bluestone Creek, Buckeye Creek, Indian Creek, McKim Creek, Point Pleasant Creek, and Sancho Creek: Clubshell and snuffbox.
19. New River (Lower): Fayette County (Route 19 to Gauley Bridge): Virginia spiraea.
20. North Fork Hughes River: Ritchie and Wirt Counties, including the lower one-half mile reaches of its tributaries Addis Run, Bonds Creek, Devilhole Creek, and Gillespie Run: Snuffbox.
21. Ohio River: Cabell, Jackson, Mason Pleasants, Tyler, Wetzel, and Wood Counties: Fanshell, pink mucket pearl mussel, sheepnose, and snuffbox.
22. Pinnacle Creek: Wyoming County: Guyandotte River crayfish
23. Potts Creek and South Fork of Potts Creek: Monroe County: James spiny mussel.
24. Reedy Creek: Roane and Wirt Counties: Snuffbox.
25. South Fork Hughes River: Doddridge, Ritchie, and Wirt Counties, including the lower one-half mile reaches of its tributaries Bone Creek, Indian Creek, Leatherbark Creek, Otterslide Creek, Slab Creek, and Spruce Creek: Clubshell and snuffbox.
26. Spring Creek: Roane and Wirt Counties: Snuffbox.
27. Steer Creek: Calhoun and Gilmer Counties: Snuffbox.

28. Sugar Creek: Pleasants County: Snuffbox.
29. Tug Fork River and tributaries including Dry Fork: McDowell and Mingo Counties: Big Sandy crayfish
30. West Fork Little Kanawha River: Calhoun, Roane, and Wirt Counties: Snuffbox.

U.S. Army Corps of Engineers Pittsburgh District

1. Back Creek: Berkeley County: Harperella.
2. Cacapon River: Morgan County: Harperella.
3. Dunkard Creek: Monongalia County: Snuffbox.
4. Fish Creek: Marshall County: Snuffbox.
5. Fishing Creek: Wetzel County: Snuffbox. Note – the mouth of Fishing Creek at the Ohio River is regulated by the Huntington District.
6. Hackers Creek (of the West Fork River): Harrison and Lewis Counties: Clubshell and snuffbox.
7. Potomac River: Morgan County (from the mouth of the Cacapon River to the mouth of Sleepy Creek): Harperella.
8. Sleepy Creek: Morgan County: Harperella.
9. West Fork River: Harrison, Lewis, and Marion Counties: Snuffbox.
10. Streams, springs, and wetlands connected to the groundwater system including caves, areas near sinkholes, and other groundwater/surface interfaces, from the Potomac River west to Opequon Creek, especially in the Rippon and Leetown Areas, and the Evitts Run Watershed: Jefferson and Berkeley Counties: Madison Cave isopod.
11. Wetlands: Berkeley and Hardy Counties: Northeastern bulrush.

***Note 1:** Applicants must ensure they are referencing the latest version of Appendix by contacting the USFWS since federally-listed species are continuously listed, proposed for listing, and/or de-listed.

***Note 2:** Please also note that freshwater mussels which are not federally listed are protected and managed by the State of West Virginia, Division of Natural Resources (WVDNR). Non-listed freshwater mussels may occur in the streams listed above as well as additional streams throughout the State. For information on the distribution of freshwater mussel species and

their protections contact the West Virginia Division of Natural Resources by phone at (304) 637-0245.

Standard Conditions of State 401 Water Quality Certification Applicable to Nationwide Permits

1. Any permitted activity for which U.S. Army Corps of Engineers (ACOE) requires pre-construction notification (PCN) in accordance with Nationwide Permit General Condition 32 requires the same information to be sent by the applicant, prior to construction, to West Virginia Department of Environmental Protection, Division of Water and Waste Management (WV DEP DWWM).
2. The applicant must provide proof of compensatory mitigation (as outlined in Standard Condition 19 below) to WV DEP DWWM prior to construction for a project with permanent stream impacts greater than 300 linear feet or causing the loss of greater than 1/10 acre of wetlands.
3. Culverted crossings should be sized and installed in a manner to allow the passage of aquatic life and freely pass bankfull flows. Exceptions to this requirement would be when culvert placement is on bedrock, or when stream gradient is equal to or greater than 4%, or when bankfull elevation is greater than final surface elevation.
4. The permittee will investigate for the presence of water supply intakes or other activities within 1/2 mile downstream, which may be affected by suspended solids and turbidity increases caused by work in the watercourse. The permittee will give notice to operators of any such water supply intakes and such other water quality dependent activities as necessary before beginning work in the watercourse in sufficient time to allow preparation for any change in water quality.
5. Excavation, dredging or filling in the watercourse will be done only to the extent necessary to achieve the project's purpose, and at each wetland crossing the top 12 inches of topsoil shall be removed and stockpiled separately from other excavated material. In addition, at each stream crossing, substrate in the channel is to be removed and stockpiled separately from other excavated material. This native material must be re-used in restoration of the wetland and/or stream bed.
6. Spoil materials from the watercourse or onshore operations, including sludge deposits, will not be dumped in the watercourse, or deposited in wetlands or other areas where the deposit may adversely affect the surface or ground waters of the state.
7. The permittee will employ measures to prevent or control spills from fuels, lubricants or any other materials used in connection with construction and restrict them from entering the watercourse. Storage areas for chemicals, explosives, lubricants, equipment fuels, etc., as well as equipment refueling areas, must include containment measures (e.g., liner systems, dikes, etc.) to ensure that spillage of any material will not contact surface or ground waters. Storage areas and refueling areas shall be a minimum distance of 100 feet from any surface

water body. All spills shall be promptly reported to the State Center for Pollution, Toxic Chemical and Oil Spills, 1-800-642-3074.

8. Upon completion of in-stream operations all disturbances below the ordinary high water mark will be properly stabilized within 24 hours to prevent soil erosion. Where possible, stabilization shall incorporate revegetation using bioengineering as an alternative to rip rap. If rip rap is utilized, it is to be of such weight and size that bank stress or slump conditions will not be created due to its placement. Fill is to be clean, nonhazardous and of such composition that it will not adversely affect the biological, chemical or physical properties of the receiving waters. Unsuitable materials include but are not limited to: copper chromium arsenate (CCA) and creosote treated lumber, car bodies, tires, large household appliances, construction debris, and asphalt. To reduce potential slope failure and/or erosion behind the material, fill containing concrete must be of such weight and size that promotes stability during expected high flows. Loose large slab placement of concrete sections from demolition projects greater than thirty-six inches in its longest dimension and tires are prohibited. Rebar or wire in concrete should not extend further than one (1) inch. All activities require the use of clean and coarse non-erodible materials with 15% or less of like fines that is properly sized to withstand expected high flows.
9. Runoff from any storage areas or spills will not be allowed to enter storm sewers without acceptable removal of solids, oils and toxic compounds. Discharges from retention/detention ponds must comply with permit requirements of the National Pollutant Discharge Elimination System permit program of the West Virginia Department of Environmental Protection, Division of Water and Waste Management.
10. Land disturbances, which are one (1) acre or greater in total area, must comply with the National Pollutant Discharge Elimination System or other state stormwater permit requirements as established by the WV DEP DWWM, if applicable. Any land disturbances are required to use Best Management Practices for Sediment and Erosion Control, as described in the latest West Virginia Department of Environmental Protection's Erosion and Sediment Control Best Management Practice Manual, or similar documents prepared by the West Virginia Division of Highways. These handbooks are available from the respective agency offices.
11. Concrete will not be permitted to enter the watercourse unless contained by tightly sealed forms or cells. Concrete handling equipment shall not discharge waste washwater into wetlands or watercourses at any time without adequate wastewater treatment as approved by the WV DEP DWWM.
12. In stream work in designated warm water streams and their adjacent tributaries during the fish spawning season, April - June and trout waters and their adjacent tributaries during the trout water fish spawning season September 15 to March 31 requires a spawning season waiver from the West Virginia Division of Natural Resources (WV DNR) Coordination Unit, at (304) 637-0245. For information about specific stream designations contact West Virginia Department of Environmental Protection, Water Quality Standards Section at (304) 926-0495. In-stream work may occur during the respective spawning season in ephemeral

waters without a waiver if all reasonable measures are taken to minimize turbidity and sedimentation downstream associated with the proposed project.

13. Removal of well-established riparian vegetation not directly associated with the project construction is prohibited. Disturbance and removal of vegetation from project construction area is to be avoided, where possible, and minimized when necessary. Removal of vegetation shall not be allowed where stream bank stability under normal flow conditions would be compromised.
14. Operation of equipment instream is to be minimized and accomplished during low flow periods when practical. Ingress and egress for equipment shall be within the work site. Location of ingress and egress outside the immediate work area requires prior approval of the WV DEP DWWM in concurrence with the WV DNR.
15. The permittee will comply with water quality standards as contained in the West Virginia Requirements Governing Water Quality Standards, Title 47 of Code of State Regulations, Series 2.
16. Stream activities permitted under the Nationwide Permit Program require that a West Virginia Public Lands Corporation Right of Entry be obtained. Application for Stream Activity should be made to the WV DNR, Office of Lands and Streams, at <http://www.wvdnr.gov/REM/default.shtm> or (304) 558-3225. In addition, any activity within the Federal Emergency Management Agency delineated 100-year floodplain requires approval from the appropriate Floodplain Manager. The following website provides a statewide listing of Floodplain Managers in West Virginia: <http://www.dhsem.wv.gov/MitigationRecovery/Pages/Floodplain-Management.aspx>
www.dhsem.wv.gov/mitigation/floodplain/Pages/default.aspx
17. If applicable, the permittee must measure and report Large Quantity Water use pursuant to §22-26-1et seq of the West Virginia Code.
18. Prior notification describing the project location and impacts must be given to the WV DEP DWWM for use of any of the Nationwide Permits for all work in streams set forth in Sections A, B, and C below.
 - A. Tier 3 Protection. West Virginia Code of State Regulations, Requirements Governing Water Quality Standards, Title 47, Series 2. **Outstanding National Resource Waters:** Outstanding National Resource Waters include, but are not limited to, all streams and rivers within the boundaries of Wilderness Areas designated by The Wilderness Act (16 U.S.C. §1131 et seq.) within the State, all Federally designated rivers under the Wild and Scenic Rivers Act, 16 U.S.C. §1271 et seq.; all streams and other bodies of water in state parks which are high quality waters or naturally reproducing trout streams; waters in national parks and forests which are high quality waters or naturally reproducing trout streams; waters designated under the National Parks and Recreation Act of 1978, as amended; and pursuant to

subsection 7.1 of 60CSR5, those waters whose unique character, ecological or recreational value, or pristine nature constitutes a valuable national or state resource. The listing of Tier 3 streams is located at: http://www.dep.wv.gov/WWE/Programs/wqs/Documents/Tier%203%20Info/WVTier_3_Nov2013_web.xlt

- B. All naturally-reproducing trout streams. For information about specific streams contact WV DNR, Wildlife Resource Section, Trout Fisheries Program at 304-637-0245.
- C. West Virginia Natural Stream Preservation Act. The following streams or rivers are protected from activities that would impound, divert or flood the body of water: Greenbrier River from its confluence with Knapps Creek to its confluence with the New River, Anthony Creek from its headwaters to its confluence with the Greenbrier River, Cranberry River from its headwaters to its confluence with the Gauley River, Birch River from Cora Brown Bridge in Nicholas County to the confluence of the river with the Elk River, and New River from its confluence with the Greenbrier River to its confluence with the Gauley River.

19. Wetland and stream mitigation guidelines. The discharge of dredged or fill material into a stream or wetland is authorized based upon the following criteria:

- A. One-tenth to ½ acre of permanent impact to wetland(s) (including wetland type conversion) requires prior notification describing the project location and impacts and plan for mitigation to be submitted to the WV DEP DWWM along with the proposed plan for mitigation provided to the state for approval.
- B. The amount of fill in a wetland, wetland complex or wetland system without mitigation is not to cumulatively exceed 1/10 acre.
- C. West Virginia Stream Wetland Valuation Metric (SWVM) is the preferred method to assist with the determination of required mitigation. The metric is available at the Huntington and Pittsburgh ACOE web sites.

In all instances, mitigation for all impacts incurred through use of these Nationwide Permits must first be directed to elimination of the impacts, then minimization of the impacts and lastly through compensatory mitigation. In many cases, the environmentally preferable compensatory mitigation may be provided through an approved mitigation bank or the West Virginia In-Lieu Fee Program. Permittee responsible compensatory mitigation may be performed using the methods of: restoration, enhancement, establishment and in certain circumstances preservation. In general, the required compensatory mitigation should be located in the same watershed as the impact site, and located where it is most likely to successfully replace lost functions and services as the impacted site. However, the use of mitigation banks or in-lieu fee for in-kind replacement is not restricted to the major watershed in which the impact has occurred until such time as mitigation banks or in-lieu projects are developed in each major watershed.

Wetlands. When permittee responsible in-kind replacement mitigation is used, it is to be accomplished at the following ratios until such time an approved functional assessment methodology is established for the state of West Virginia:

Permanent impacts to open water wetlands are to be one (1) acre replaced for one (1) acre impacted.

Permanent impacts to wet meadow/emergent wetlands are to be two (2) acres replaced for one (1) acre impacted.

Permanent impacts to scrub-shrub and forested wetlands are to be three (3) acres replaced for one (1) acre impacted.

In instances where compensatory in-kind mitigation is completed 12 months prior to the impact of the resource, the replacement ratio may be reduced to as low as one (1) acre created/restored to every one (1) acre impacted.

NOTE: The ratio of created/restored wetlands to impacted wetlands not only ensures no net loss, but assures the adequate replacement of the impacted wetlands functions and values at the level existing prior to the impact. For many of the more complicated type wetlands, such as scrub-shrub and forested, the values and functions cannot readily be replaced through creation. Furthermore, not all wetland creation is successful.

In certain instances, the West Virginia Department of Environmental Protection, Division of Water and Waste Management may consider the acquisition of existing wetlands. Acquisition ratios are the following:

- 5 to 1 for open water wetlands
- 10 to 1 for wet meadow/emergent wetlands
- 15 to 1 for scrub-shrub and forested wetlands

Under extenuating circumstances the director may accept lower ratios for high quality wetlands under significant threat of development.

All wetlands acquired, using the acquisition method of mitigation, will either be deeded to the WV DNR Public Land Corporation for management by the Wildlife Resources Section or placed under a conservation easement and be protected from disturbance by the permittee or their designee. Third party oversight of the conservation easement by a non-profit conservation organization is preferred.

Streams. Compensatory mitigation projects for permanent stream impacts should attempt to replace lost functions. Mitigation will be determined on a case-by-case basis based on the pre- and post- condition stream quality and complexity of the mitigation project preferably utilizing the SWVM worksheets. Compensatory mitigation may require protection through deed restrictions or conservation easements by the permittee or their designee.

20. Streams with Mussel populations.

A. Should native freshwater mussels be encountered during the use of any Nationwide Permit, all activity is to cease immediately and the WV DNR Wildlife Resources Section, Wildlife Diversity Program is to be contacted (304-637-0245) to determine significance of the mussel population and the action to be taken.

B. Work in streams known to have protected "no take" mussel populations or contain protected habitat of mussels on the Federal Endangered Species list must be approved by the WV DNR, Wildlife Diversity Program. Applicants wishing to conduct projects in such streams should contact the program at (304) 637-0245. The most current list of these waters and other mussel information can be found here: <http://www.wvdnr.gov/Mussels/Main.shtm>.

C. Applicants should also consider utilizing WV DNR Wildlife Data Base Inquiry process. This resource is designed for the applicant as an informative preplanning tool. It allows the applicant to know, in advance, if they will be encountering any federally listed endangered species (ES), state species of concern and high quality fish and wildlife habitats such as trout streams, warm water fisheries, wetlands, karst and cave habitats. This inquiry can be obtained from the: Wildlife Data Base Coordinator, PO Box 67, Elkins West Virginia 26241. Information on what to submit to receive an inquiry should be directed to data base coordinator at 304-637-0245.

21. Isolated State Waters. In some cases, the ACOE may determine that an activity will not impact waters of the United States because the water is an isolated wetland or stream, and therefore does not require a 404 permit. However, under West Virginia Code §22-11-8(b)(3), a permit is needed to place a waste into any water of the State. Accordingly, any applicant proposing to impact an isolated water must contact WV DEP DWWM to obtain all necessary approvals for activities impacting any isolated State waters.

H. Definitions

Best management practices (BMPs): Policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting from development. BMPs are categorized as structural or non-structural.

Compensatory mitigation: The restoration (re-establishment or rehabilitation), establishment (creation), enhancement, and/or in certain circumstances preservation of aquatic resources for the purposes of offsetting unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization has been achieved.

Currently serviceable: Useable as is or with some maintenance, but not so degraded as to essentially require reconstruction.

Direct effects: Effects that are caused by the activity and occur at the same time and place.

Discharge: The term “discharge” means any discharge of dredged or fill material into waters of the United States.

Ecological reference: A model used to plan and design an aquatic habitat and riparian area restoration, enhancement, or establishment activity under NWP 27. An ecological reference may be based on the structure, functions, and dynamics of an aquatic habitat type or a riparian area type that currently exists in the region where the proposed NWP 27 activity is located. Alternatively, an ecological reference may be based on a conceptual model for the aquatic habitat type or riparian area type to be restored, enhanced, or established as a result of the proposed NWP 27 activity. An ecological reference takes into account the range of variation of the aquatic habitat type or riparian area type in the region.

Enhancement: The manipulation of the physical, chemical, or biological characteristics of an aquatic resource to heighten, intensify, or improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Ephemeral stream: An ephemeral stream has flowing water only during, and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

Establishment (creation): The manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist at an upland site. Establishment results in a gain in aquatic resource area.

High Tide Line: The line of intersection of the land with the water’s surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm.

Historic Property: Any prehistoric or historic district, site (including archaeological site), building, structure, or other object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria (36 CFR part 60).

Independent utility: A test to determine what constitutes a single and complete non-linear project in the Corps Regulatory Program. A project is considered to have independent utility if it

would be constructed absent the construction of other projects in the project area. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

Indirect effects: Effects that are caused by the activity and are later in time or farther removed in distance, but are still reasonably foreseeable.

Intermittent stream: An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.

Loss of waters of the United States: Waters of the United States that are permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity. Permanent adverse effects include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the United States is a threshold measurement of the impact to jurisdictional waters for determining whether a project may qualify for an NWP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and services. The loss of stream bed includes the acres or linear feet of stream bed that are filled or excavated as a result of the regulated activity. Waters of the United States temporarily filled, flooded, excavated, or drained, but restored to pre-construction contours and elevations after construction, are not included in the measurement of loss of waters of the United States. Impacts resulting from activities that do not require Department of the Army authorization, such as activities eligible for exemptions under section 404(f) of the Clean Water Act, are not considered when calculating the loss of waters of the United States.

Navigable waters: Waters subject to section 10 of the Rivers and Harbors Act of 1899. These waters are defined at 33 CFR part 329.

Non-tidal wetland: A non-tidal wetland is a wetland that is not subject to the ebb and flow of tidal waters. Non-tidal wetlands contiguous to tidal waters are located landward of the high tide line (i.e., spring high tide line).

Open water: For purposes of the NWPs, an open water is any area that in a year with normal patterns of precipitation has water flowing or standing above ground to the extent that an ordinary high water mark can be determined. Aquatic vegetation within the area of flowing or standing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open waters. Examples of "open waters" include rivers, streams, lakes, and ponds.

Ordinary High Water Mark: An ordinary high water mark is a line on the shore established by the fluctuations of water and indicated by physical characteristics, or by other appropriate means that consider the characteristics of the surrounding areas.

Perennial stream: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary

source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

Practicable: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

Pre-construction notification: A request submitted by the project proponent to the Corps for confirmation that a particular activity is authorized by nationwide permit. The request may be a permit application, letter, or similar document that includes information about the proposed work and its anticipated environmental effects. Pre-construction notification may be required by the terms and conditions of a nationwide permit, or by regional conditions. A pre-construction notification may be voluntarily submitted in cases where pre-construction notification is not required and the project proponent wants confirmation that the activity is authorized by nationwide permit.

Preservation: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Protected tribal resources: Those natural resources and properties of traditional or customary religious or cultural importance, either on or off Indian lands, retained by, or reserved by or for, Indian tribes through treaties, statutes, judicial decisions, or executive orders, including tribal trust resources.

Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

Riffle and pool complex: Riffle and pool complexes are special aquatic sites under the 404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a coarse substrate in riffles results in a rough flow, a turbulent surface, and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A

slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

Riparian areas: Riparian areas are lands next to streams, lakes, and estuarine-marine shorelines. Riparian areas are transitional between terrestrial and aquatic ecosystems, through which surface and subsurface hydrology connects riverine, lacustrine, estuarine, and marine waters with their adjacent wetlands, non-wetland waters, or uplands. Riparian areas provide a variety of ecological functions and services and help improve or maintain local water quality. (See general condition 23.)

Shellfish seeding: The placement of shellfish seed and/or suitable substrate to increase shellfish production. Shellfish seed consists of immature individual shellfish or individual shellfish attached to shells or shell fragments (i.e., spat on shell). Suitable substrate may consist of shellfish shells, shell fragments, or other appropriate materials placed into waters for shellfish habitat.

Single and complete linear project: A linear project is a project constructed for the purpose of getting people, goods, or services from a point of origin to a terminal point, which often involves multiple crossings of one or more waterbodies at separate and distant locations. The term “single and complete project” is defined as that portion of the total linear project proposed or accomplished by one owner/developer or partnership or other association of owners/developers that includes all crossings of a single water of the United States (i.e., a single waterbody) at a specific location. For linear projects crossing a single or multiple waterbodies several times at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Single and complete non-linear project: For non-linear projects, the term “single and complete project” is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. A single and complete non-linear project must have independent utility (see definition of “independent utility”). Single and complete non-linear projects may not be “piecemealed” to avoid the limits in an NWP authorization.

Stormwater management: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

Stormwater management facilities: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and best management practices, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

Stream bed: The substrate of the stream channel between the ordinary high water marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the stream bed, but outside of the ordinary high water marks, are not considered part of the stream bed.

Stream channelization: The manipulation of a stream's course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

Tidal wetland: A tidal wetland is a jurisdictional wetland that is inundated by tidal waters. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channelward of the high tide line.

Tribal lands: Any lands title to which is either: 1) held in trust by the United States for the benefit of any Indian tribe or individual; or 2) held by any Indian tribe or individual subject to restrictions by the United States against alienation.

Tribal rights: Those rights legally accruing to a tribe or tribes by virtue of inherent sovereign authority, unextinguished aboriginal title, treaty, statute, judicial decisions, executive order or agreement, and that give rise to legally enforceable remedies.

Vegetated shallows: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

Waterbody: For purposes of the NWP, a waterbody is a jurisdictional water of the United States. If a wetland is adjacent to a waterbody determined to be a water of the United States, that waterbody and any adjacent wetlands are considered together as a single aquatic unit (see 33 CFR 328.4(c)(2)). Examples of "waterbodies" include streams, rivers, lakes, ponds, and wetlands.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

West Virginia Field Office
694 Beverly Pike
Elkins, West Virginia 26241



December 7, 2017

Mr. Erik Duncan
Columbia Gas Transmission, LLC
455 Racetrack Road
Washington, Pennsylvania 15301

Re: Columbia Gas Transmission, LLC – Mountaineer XPress Project, in Cabell, Calhoun, Doddridge, Jackson, Marshall, Kanawha, Mason, Putnam, Ritchie, Roane, Tyler, Wayne, Wetzel, and Wirt Counties, West Virginia (FWS File # 2015-I -0575)
(FERC Docket No. CP16-357-000)

Dear Mr. Duncan:

This letter responds to your request for comments on the October 17, 2017, information provided on Columbia Gas Transmission, LLC's (Columbia) revised route for the Mountaineer XPress Pipeline (MXP) Project. Columbia proposes to: construct and operate approximately 171 miles of various diameter natural gas pipelines; modify 3 existing compressor stations; and construct 3 new compressor stations, 3 new regulating stations, and other modifications at a number of aboveground facilities. The Project is regulated by the Federal Energy Regulatory Commission (FERC). The Columbia Multi-Species Habitat Conservation Plan (MSHCP), and associated biological opinion and concurrence letters cover all sections of the proposed Project occurring within Marshall, Jackson and Wetzel Counties, and small sections of the Project in Cabell, Tyler, Doddridge, and Putnam Counties. The remainder of the Project does not fall within the MSHCP covered lands. This letter is specific to the portion of the project that falls outside of MSHCP covered lands. Thus, areas covered by the MSHCP will not be discussed further in this letter. These comments are provided pursuant to the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) and are specific to the revised route described in Columbia's October 17, 2017, request. This Project has been assigned FWS File Number 2015-I-0575 and is under FERC Docket No. CP16-357-000.

Based on the information provided, the U.S. Fish and Wildlife Service's (Service) has determined that 4 federally listed species are within the range of the proposed Project, and may be affected by the construction and operation of the proposed Project. These species are the endangered Indiana bat (*Myotis sodalis*), snuffbox mussel (*Epioblasma triquetra*), clubshell (*Pleurobema clava*) mussel, and the threatened northern long-eared bat (*Myotis septentrionalis*) (NLEB).

The Service has been working with Columbia since 2015 to address the Project's potential impacts on federally listed species and their habitats and develop avoidance and minimization measures for Service trust resources that the proposed Project may encounter in West Virginia. In previous correspondence to Columbia dated September 21, 2016, the Service stated that the amount of stress from multiple crossings could result in adverse effects to current populations of clubshell and snuffbox mussels present in streams crossed by the Project, and that the cumulative effects from multiple crossings could result in the extirpation of clubshell from Meathouse Fork and the South Fork Hughes River. As a result, our September 21, 2016, letter recommended that Columbia re-route the Project to reduce the number of crossing and avoid adverse effects to federally listed mussels. The FERC July 2017 Final Environmental Impact Statement also states that: "prior to construction, Columbia Gas should: file an update with the Secretary of any further discussions or progress made with the USFWS regarding recommendations on stream crossing locations and construction methodologies where federally protected mussel species may be present." It is the Service's opinion that Columbia's revised route, and the information provided on October 17, 2017, fulfills that request.

Columbia's October 17, 2017, request included the following documents for the Service's review and comment:

- Mussel Stream Alternatives and Comparative Analysis
- 2017 Mussel Survey Report
- Erosion and Sediment Control Design Drawings for Group 2 Streams crossed by the Project
- Hydrostatic Test Water Appropriation and Discharge Plan
- Crossing Design Considerations at Select Waterbodies Supporting Mussel Populations
- 2017 Bat Survey Report

Federally Listed Bats

The Service has reviewed Columbia's final bat survey report submitted on October 17, 2017. Columbia conducted acoustic presence/probable absence surveys, hibernacula surveys, and mist-net presence/probable absence surveys along the proposed Project route from 2015 – 2017. Acoustic surveys were only conducted in areas not covered by Columbia's MSHCP and mist-net surveys were conducted at 2 sites where Indiana bats were detected during acoustic surveys in 2015 and one site in 2016. Hibernacula surveys were conducted from 2015-2017. These surveys followed the protocol outlined in the current Range-wide Indiana Bat Summer Survey Guidelines and the West Virginia Field Office's 2011 Draft Protocol for Assessing Abandoned Mines/Caves for Bat Use. A complete summary of the results of these surveys can be found on the FERC docket (Docket No. CP16-357-000).

Acoustic surveys detected Indiana bats at 3 sites within the Project area, but follow-up mist-net surveys in those areas confirmed the probable absence of Indiana bats. Additionally, no suitable Indiana bat hibernacula were identified during surveys. Based on the results of Columbia's acoustic/mist-net surveys and hibernacula surveys, the Service anticipates that this Project is not likely to adversely affect the Indiana bat.

NLEB were detected at 87 acoustic sites and 3 were captured during the 2015-2017 survey effort. No NLEB were tracked during these surveys. Thus, the NLEB occurs within the range of the proposed Project, and may be affected by the proposed construction and operation of this Project. Any take of NLEB occurring in conjunction with these activities that complies with the conservation measures (as outlined in the 4(d) rule), as necessary, is exempted from section 9 prohibitions by the 4(d) rule and does not require site specific incidental take authorization. Note that the 4(d) rule does not exempt take that may occur as a result of adverse effects to hibernacula and that no conservation measures are required as part of the 4(d) rule unless the proposed Project: 1) involves tree removal within 0.25 miles of known NLEB hibernacula; or 2) cuts or destroys known, occupied maternity roost trees or any other trees within a 150-foot radius around known, occupied maternity tree during the pup season (June 1 to July 31). This proposed Project is not located within any of these radii around known hibernacula or roost trees and will not affect any known NLEB hibernacula, therefore any take of NLEB associated with this Project is exempted under the 4(d) rule and no conservation measures are required.

Survey results are considered current for 5 years (the summer they are completed and the following four summer seasons). In this case, the surveys will expire on May 15, 2020. If a significant amendment is proposed to change or expand this Project, or if timber will be removed after that date, a new survey may be necessary and the Service should be contacted.

Please be aware that all of the meeting notes included in Appendix A, of Columbia's 2017 Bat Survey Report, were not shared with the Service prior to inclusion in the final report. As a result, some of the notes included in Appendix A may not accurately capture the meeting's discussion points. Additionally, the Service provided comments to Columbia on May, 17, 2016, regarding the April 27, 2016, meeting notes and Columbia did not include the version that addressed our comments in the final report. Although the meeting notes included in Appendix A do not change our determination, the Service recommends that in the future Columbia provide the Service with the opportunity to review and comment on all meeting notes prior to finalization and submittal of documents to the federal action agency.

Freshwater Mussels

The Project proposes to cross Fish Creek, Fishing Creek, McElroy Creek, the South Fork Hughes River, Spring Creek, the Little Kanawha River, the Kanawha River, and Meathouse Fork, all of which contain suitable habitat for the clubshell and/or snuffbox mussel. The Fish Creek, Fishing Creek, Kanawha River, and Meathouse Fork (mile post [MP] 5.7) crossings are covered by Columbia's MSHCP and will not be discussed further in this letter. The original alignment for the pipeline (referred to as "Supplement 2 Route" in Columbia's October 17, 2107 request) proposed crossing the South Fork Hughes River, Spring Creek, and Meathouse Fork multiple times. As mentioned above the Service's September 21, 2016, letter recommended that Columbia consider alternative alignment routes to avoid crossing federally listed mussel streams multiple times. Since our September 21, 2016, letter, Columbia has proposed rerouting and/or relocating portions of the proposed Project, thereby minimizing the number of crossings of federally listed mussel streams from 16 to 9.

The Service has reviewed Columbia's final mussel survey report submitted on October 17, 2017. Mussel surveys were conducted on the streams listed above from 2015-2017. These surveys followed the protocol outlined in the current West Virginia Mussel Survey Protocol. A complete summary of the results of these surveys can be found on the FERC docket (Docket No. CP16-357-000).

A total of 40 federally listed snuffbox mussels were found in the Project area. Thirty-nine individuals were found at the proposed crossing for the Little Kanawha River and 1 individual was found at the South Fork Hughes River crossing (MP 77.0). To avoid adverse effects to listed mussels at these locations, Columbia has committed to crossing these waterways (the Little Kanawha River and South Fork of Hughes River) via horizontal directional drill (HDD). This method will allow the pipeline to be placed under the stream without directly impacting the waterway. Furthermore, avoidance and minimization measures, including detailed erosion and sedimentation control plans and hydrostatic testing and discharge plans, have been incorporated into the Project for all crossings (previously agreed upon by the Service, Columbia, and the WVDNR) to further avoid adverse effects to listed mussels.

The HDD method uses bentonite clay in its pressurized drilling that, on occasion, can result in an inadvertent return that releases bentonite clay into waterways. In correspondence dated October 17, 2017, Columbia stated their commitment to implement corrective action measures in the event of an inadvertent return. In the event of an inadvertent return, the Service anticipates that implementation of the measures outlined in Columbia's Crossing Design Considerations at Select Waterbodies Supporting Mussel Populations (Attachment 5) will minimize, to the extent practicable, the likelihood of adverse effects to waterways that provide habitat to federally listed mussels near the Project area. This office should be notified immediately if any deviations from the submitted plans are anticipated, or if an inadvertent return occurs during construction of the Project.

Based on the measures included in Columbia's Mussel Stream Alternatives and Comparative Analysis, the 2017 Mussel Survey Report, the Erosion and Sediment Control Design Drawings for Group 2 Streams crossed by the Project, the Hydrostatic Test Water Appropriation and Discharge Plan, and Crossing Design Considerations at Select Waterbodies Supporting Mussel Populations, the Service anticipates that this Project is not likely to adversely affect any federally listed mussel species.

It is our understanding that the West Virginia Division of Natural Resources will also be providing minor comments/recommendations on Columbia's 2017 Mussel Survey Report and Hydrostatic Test Water Appropriation and Discharge Plan. The Service supports the inclusion of these recommendations in any permit decision rendered for this Project.

Conclusion

In conclusion, the Service anticipates that the revised route for the MXP Project is not likely to adversely affect any federally listed species. Furthermore, because these minor reroutes avoid adverse effects to all federally listed species within the project area, the Service recommends that Columbia work with the FERC, and other interested parties (e.g. other federal agencies and landowners), to adopt this alignment as the final route.

Mr. Erik Duncan
December 7, 2017


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This letter provides technical assistance only and does not serve as a completed section 7 consultation document. No construction activities on any portion of the Project should occur until consultation under section 7 of the ESA, between the Service and the FERC, is completed. Section 7 consultation is not complete until the FERC submits a determination of effects to this office, the Service concurs with the FERC's determination, and the FERC agrees to incorporate all the proposed conservation measures as mandatory conditions for any permit decision rendered for this Project. All measures must be installed prior to the start of any construction, and all measures must be implemented as proposed and be maintained until construction is complete.

Should project plans change or amendments be proposed that we have not considered in your proposed action, or if additional information on listed and proposed species becomes available, or if new species become listed or critical habitat is designated, this determination may be reconsidered. Our determination that this Project may affect, but is not likely to adversely affect any federally listed endangered and threatened species does not apply if erosion and sedimentation measures fail due to improper maintenance. If erosion and sedimentation measures fail, further consultation with the Service will be required.

If you have any questions regarding these comments, please contact Tiernan Lennon of my staff at 304-636-6586, Ext. 12, or via email tiernan_lennon@fws.gov.

Sincerely,



John E. Schmidt
Field Supervisor

WRD 1A-82
Revised 03/17



**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER & WASTE MANAGEMENT
601 57th Street, SE
CHARLESTON, WV 25304**

**GENERAL
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT**

Permit No.: WV0113069

Issue Date: May 12, 2017

Subject: Hydrostatic Testing Water

Effective Date: June 11, 2017

Expiration Date: May 11, 2022

Supercedes: WV0113069
Issued January 20, 2012

To whom it may concern:

This is to certify that any establishment with discharges composed entirely of water associated with the hydrostatic testing of newly constructed, or cleaned and certified PCB-free pipelines and/or storage tanks and agreeing to be regulated under the terms of this general permit is hereby granted coverage under this General NPDES Water Pollution Control Permit to allow hydrostatic testing water discharges into waters of the State.

This permit is subject to the following terms and conditions:

The information submitted on and with the site registration application form will hereby be made terms and conditions of the permit with like effect as if all such information were set forth herein, and other conditions set forth in Sections A, B and Appendix A.

A.1 Discharge Limitations and Monitoring Requirements: Projects utilizing waters of the State as source waters.

During the period beginning effective date of permit and lasting through midnight expiration date of permit, the permittee is authorized to discharge from Outlet Number(s): *

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>					<u>Monitoring Requirements</u>	
	<u>(Quantity) lbs/day</u>		<u>Other Units (specify)</u>			<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Avg. Monthly</u>	<u>Max Daily</u>	<u>Avg. Monthly</u>	<u>Max Daily</u>			
Flow	N/A	N/A	N/A	Monitor	MGD	1/discharge	**
Oil and Grease	N/A	N/A	N/A	Monitor	mg/l	1/discharge	***
Total Suspended Solids	N/A	N/A	N/A	Monitor	mg/l	1/discharge	***

* Each outlet shall be sampled and analyzed separately. Identify as 001, 002, 003, etc., on DMR's. Also, See B.1.

** The total amount of water discharged shall be reported.

*** See B.2.

The pH shall not be less than 6.0 standard units and not more than 9.0 standard units and shall be monitored 1/Discharge by grab sample.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the discharge from the pipeline segment undergoing hydrostatic testing.

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.2 Discharge Limitations and Monitoring Requirements: Projects utilizing chlorinated potable water supply as source water with discharge to Trout waters.

During the period beginning effective date of permit and lasting through midnight expiration date of permit, the permittee is authorized to discharge from Outlet Number(s): *

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>					<u>Monitoring Requirements</u>	
	<u>(Quantity) lbs/day</u>		<u>Other Units (specify)</u>			<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Avg. Monthly</u>	<u>Max Daily</u>	<u>Avg. Monthly</u>	<u>Max Daily</u>			
Flow	N/A	N/A	N/A	Monitor	MGD	1/discharge	**
Oil and Grease	N/A	N/A	N/A	Monitor	mg/l	1/discharge	***
Total Suspended Solids	N/A	N/A	N/A	Monitor	mg/l	1/discharge	***
Total Residual Chlorine	No Chlorinated Discharge Allowed			0	ug/l	1/discharge	Grab

* Each outlet shall be sampled and analyzed separately. Identify as 001, 002, 003, etc., on DMR's. Also, See B.1.

** The total amount of water discharged shall be reported.

*** See B.2.

The pH shall not be less than 6.0 standard units and not more than 9.0 standard units and shall be monitored 1/Discharge by grab sample.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the discharge from the holding pond or dechlorination unit, as applicable.

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.3 Discharge Limitations and Monitoring Requirements: Projects utilizing chlorinated potable water supply as source water with discharge to Warmwater fisheries.

During the period beginning effective date of permit and lasting through midnight expiration date of permit, the permittee is authorized to discharge from Outlet Number(s): *

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>					<u>Monitoring Requirements</u>	
	<u>(Quantity) lbs/day</u>		<u>Other Units (specify)</u>			<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Avg. Monthly</u>	<u>Max Daily</u>	<u>Avg. Monthly</u>	<u>Max Daily</u>			
Flow	N/A	N/A	N/A	Monitor	MGD	1/discharge	**
Oil and Grease	N/A	N/A	N/A	Monitor	mg/l	1/discharge	***
Total Suspended Solids	N/A	N/A	N/A	Monitor	mg/l	1/discharge	***
Total Residual Chlorine	N/A	N/A	N/A	11	ug/l	1/discharge	Grab

* Each outlet shall be sampled and analyzed separately. Identify as 001, 002, 003, etc., on DMR's. Also, See B.1.

** The total amount of water discharged shall be reported.

*** See B.2.

The pH shall not be less than 6.0 standard units and not more than 9.0 standard units and shall be monitored 1/Discharge by grab sample.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the discharge from the pipeline segment undergoing hydrostatic testing.

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.4 Discharge Limitations and Monitoring Requirements: Projects utilizing chlorinated potable water supply as source water with discharge to Public A waters.

During the period beginning effective date of permit and lasting through midnight expiration date of permit, the permittee is authorized to discharge from Outlet Number(s): *

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>					<u>Monitoring Requirements</u>	
	<u>(Quantity) lbs/day</u>		<u>Other Units (specify)</u>			<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Avg. Monthly</u>	<u>Max Daily</u>	<u>Avg. Monthly</u>	<u>Max Daily</u>			
Flow	N/A	N/A	N/A	Monitor	MGD	1/discharge	**
Oil and Grease	N/A	N/A	N/A	Monitor	mg/l	1/discharge	***
Total Suspended Solids	N/A	N/A	N/A	Monitor	mg/l	1/discharge	***
Chloroform	N/A	N/A	N/A	5.7	ug/l	1/discharge	***

* Each outlet shall be sampled and analyzed separately. Identify as 001, 002, 003, etc., on DMR's. Also, See B.1.

** The total amount of water discharged shall be reported.

*** See B.2.

The pH shall not be less than 6.0 standard units and not more than 9.0 standard units and shall be monitored 1/Discharge by grab sample.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the discharge from the pipeline segment undergoing hydrostatic testing.

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

B. OTHER REQUIREMENTS

1. Each segment of pipeline tested, which results in a separate discharge, shall be considered as an individual outlet. Projects comprising numerous outlets may be eligible for representative outlet designation, which may result in a reduction in the number of outlets requiring monitoring. This designation shall be evaluated on a case-by-case basis.
2. The samples collected for analysis of Total Suspended Solids and Chloroform shall consist of three (3) equal volume grab samples composited into one (1) sample. The initial grab sample shall be taken within fifteen (15) minutes of the discharge. The second sample shall be taken at least fifteen (15) minutes after the initial grab and at least fifteen (15) minutes before the final grab. For discharges of less than forty-five (45) minutes duration, initial and final grab samples only shall be collected and composited. For Oil & Grease, a grab sample shall be collected within the first fifteen (15) minutes of discharge. The results shall be reported in the appropriate sections of the DMR, which is to be submitted electronically using DEP's Electronic Submission System (ESS).
3. At least seven (7) days prior to commencing any discharge, the permittee shall notify the appropriate Regional Office of Environmental Enforcement (EE) per the following list of counties:

Northwest Region – (304) 368-3960

Barbour, Doddridge, Harrison, Lewis, Marion, Monongalia, Pleasants, Ritchie, Taylor and Upshur

Wheeling Satellite Office – (304) 238-1220

Brooke, Hancock, Marshall, Ohio, Tyler, and Wetzel

Northeast Region – (304) 822-7266

Berkeley, Grant, Hampshire, Hardy, Jefferson, Mineral, Morgan, Pendleton, Pocahontas, Preston, Randolph and Tucker

Southwest Region – (304) 926-0470

Boone, Cabell, Kanawha, Lincoln, Logan, Mason, Mingo, Putnam and Wayne

Parkersburg Satellite Office – (304) 420-4635

Calhoun, Gilmer, Jackson, Roane, Wirt and Wood

Southeast Region – (304) 465-3016

Braxton, Clay, Fayette, Greenbrier, McDowell, Mercer, Monroe, Nicholas, Raleigh, Summers, Webster, and Wyoming

EE shall be apprised of the date, time and precise location of the discharge.

B. OTHER REQUIREMENTS (Continued)

4. The Sediment and Erosion Control Plan (SECP) submitted with the site registration form shall become an enforceable part of this permit once coverage is granted under this permit. The SECP shall specify the measures to be taken to control the Total Suspended Solids in the discharge. The SECP may be changed or amended only upon submission of an amended plan and approval from the Division of Water and Waste Management (DWWM).
5. It is recognized that this general permit continues to be in the developmental stage and its limitations, standards and conditions will be reviewed by the Director at the time of reissuance, or earlier, if necessary, for possible revisions. Based upon that review, such revisions may be more, or less, stringent than the limitations, standards and conditions contained in this general permit.
6. The permittee shall promptly notify the DWWM in writing of the completion of the hydrostatic testing project and of compliance with the requirements of the Sediment and Erosion Control Plan. Coverage under this general permit shall automatically terminate upon receipt of this notification. Failure to submit this notice may result in the assessment of additional annual permit fees. This notice may be attached to the e-DMR submitted through the ESS.

7. Facilities Discharging to 303(d) Streams

Permittees discharging Section A pollutants of concern to waters for which there is a total maximum daily load (TMDL) established or approved by EPA are not eligible for coverage under this general permit unless the permit conditions of this general permit are consistent with the assumptions and requirements of such TMDL. The permittee should consult with the State or EPA TMDL authority to confirm if his/her facility is subject to an approved TMDL. If the discharge cannot comply with the requirements of the TMDL, the permittee must submit an NPDES application to the DEP for coverage under an individual WV/NPDES permit.

8. Endangered and Threatened Species

If a site discharges to a stream where a federally endangered or threatened species or its habitat are present, the applicant should contact the US Fish and Wildlife Service to ensure that requirements of The Federal Endangered Species Act are met.

9. The Director may require any person authorized by this permit to apply for and obtain an individual NPDES permit. Any interested person may petition the Director to act under this paragraph. The Director may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit, coverage under this general permit shall automatically terminate. The Director may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application required by the Director under this paragraph, then the applicability of this

B. OTHER REQUIREMENTS (Continued)

permit to the individual NPDES permittee is automatically terminated at the end of the day specified for application submittal.

The use of biocides, or other additives in the hydrostatic testing water may result in the requirement to obtain an individual permit. Also, discharges into Karst areas may result in the requirement to obtain an individual permit. These issues will be evaluated on a case-by-case basis.

10. This permit will be considered as an individual permit if the coverage of a specific individual facility is the subject of an appeal in accordance with Chapter 22, Article 11, Section 21 of the West Virginia Code. Any subsequent action taken as result of the appeal will only affect the specific subject facility.
11. If an applicable standard or limitation is promulgated under Section 301(b) (2) (C) and (D), 304(b) (2) and/or 307(a) (2) of the Clean Water Act, and that effluent standard or limitation is more stringent than any effluent limitation in this permit, this permit shall be promptly modified or revoked and reissued to conform to that effluent standard or limitation.
12. TRC samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136. The permittee shall use an EPA Approved Method with at a method detection level (MDL) no greater than 100 ug/l. For those discharging to a trout stream and therefore having a TRC limit of zero, available sampling methods for total residual chlorine (TRC) are currently not sensitive enough to confirm compliance. Any TRC sampling result reported as less than the MDL stated above shall be assumed to confirm compliance for purposes of permit compliance. If a more sensitive EPA approved method becomes available for field analysis of TRC, those having a TRC limit of zero shall perform TRC self-monitoring in accordance with the new method. If the new method is not sensitive enough to determine compliance with specified TRC limits, analytical results reported as "not detected" at the MDL of the new method will be deemed compliant for purposes of permit compliance.
13. Due to concerns with the potential transfer of invasive species and/or waterborne viruses, parasites and bacteria that are known to cause or may cause disruption to the aquatic community, applicants using source water from a water of the state must discharge the hydrostatic test water back to the original water source. If discharge back to the original water source is impracticable, then one of the following options must be selected:
A: land apply the discharge in such a manner that it cannot directly contact surface waters; or
B: disinfect the water prior to discharge.

If either of Options A or B above are chosen as the disposal method, the applicant must include with the permit application a land application disposal or disinfection plan detailing how prevention of undesirable transfers will be accomplished. Upon approval, the process described in the application shall become a term and condition of this permit.
14. If water for hydrostatic testing is to be derived from waters of the state, withdrawals shall only be made during times when stream flow is sufficient to support both aquatic life and the withdrawal. During periods of active withdrawal, the permittee shall **daily** consult and document the recommendation from DEP's Water Withdrawal Guidance Tool. This documentation shall be maintained by the permittee and made available for inspection. Withdrawals should only be taken when the tool indicates that it is safe by the

statement "it should be safe to withdraw from any stream in the area". Use of the tool does not guarantee protection of aquatic life and best professional judgment must still be used when making withdrawals, as the tool cannot account for all localized conditions and may not react to the withdrawal dependent on its proximity to the stream gage. However, the tool does provide useful information on general stream flow adequacy to assist the permittee when making withdrawal decisions. The tool may be found at the following link:
<http://www.dep.wv.gov/WWE/wateruse/Pages/WaterWithdrawal.aspx> .

The herein-described activity is to be constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with any plans, specifications and information submitted with the individual site registration application form, with any plan of maintenance and method of operation thereof submitted and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with any plans, specifications and information submitted, and with any plan of maintenance and method of operation thereof submitted shall constitute grounds for the revocation or suspension of this permit to any individual establishment or other person and for the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Articles 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

By: 
Director

Appendix A

I. MANAGEMENT CONDITIONS:

1. Duty to Comply

- a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.
- b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit within thirty (30) days of receipt of the reissuance package. Since the permittee is registered for coverage under a general permit, this agency will notify the permittee regarding permit reissuance at the appropriate time.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10, Section 4.6 of the West Virginia Legislative Rules.

7. Transfers

This permit coverage is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a) Enter upon the permittee's premises in which an effluent source or activity is located, or where records must be kept under the conditions of this permit;
- b) Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;
- c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 (of the Code of West Virginia).

12. Water Quality

The effluent or effluents covered by this permit are to be of such quality so as not to cause violation of applicable water quality standards adopted by the Environmental Quality Board.

13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

14. Liabilities

- a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both.
- b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon

conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

- d) Nothing in C.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

15. Continuation of this general permit

If this general permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with 47 CSR 10 and remain in force and effect. If you were authorized to discharge under this general permit prior to the expiration date, any discharges authorized under this permit will automatically remain covered by this general permit until the earliest of:

A) Your authorization for coverage under a reissued general permit or a replacement of this general permit following your timely and appropriate submittal of a complete application requesting authorization to discharge under the new general permit and compliance with the requirements of the new permit; or B) Your submittal of notification that the facility has ceased operations; or C) Issuance or denial of an individual permit for the facility's discharge; or D) A formal permit decision by DWWM not to reissue this general permit, at which time DWWM will identify a reasonable time period of covered dischargers to seek coverage under an alternative general permit or individual permit. Coverage under this permit will cease at the end of this time.

II. OPERATION AND MAINTENANCE:

1. Proper Operation and Maintenance

The permittee shall always properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of the permit.

3. Bypass

a) Definitions

- (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and
- (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.

- (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;
- (2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.

d) Prohibition of bypass

- (1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless:
 - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
 - (C) The permittee submitted notices as required under II.3.c) of this permit.
- (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

4. Upset

- a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
- b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.
 - (4) The permittee complied with any remedial measures required under I.3. of this permit.
- d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludge, filter backwash or other pollutants (removed during treatment or control of wastewater) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

III. MONITORING AND REPORTING:

1. Representative Sampling, Sample Type and Sampling Period

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. Reporting

- a) At the conclusion of each hydrostatic test, the permittee shall submit according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, the values of the constituents listed in Part A analytically determined to be in the effluent(s).
- b) The required DMRs must be submitted electronically, unless otherwise approved by the agency in writing.
- c) All DMRs, regardless of whether submitting electronically or via paper, shall be submitted no later than 20 days following the end of the sampling period.

3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

- a) The date, exact place, and time of sampling or measurement;
- b) The date(s) analyses were performed;
- c) The individual(s) who performed the sampling or measurement;
- d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;
- e) The analytical techniques or methods used, and
- f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

7. Definitions

- a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.
- b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- c) "Maximum daily discharge limitation" means the highest allowable daily discharge.
- d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.
- e) "Grab Sample" is an individual sample collected in less than 15 minutes.
- f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.
- g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.
- h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24-hour day, or during the operating day if flows are of shorter duration.

- i) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.
- j) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
- k) "Best Management Practices" (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
- l) "CWA" means the Clean Water Act.
- m) "Director" means the Director of the Division of Water & Waste Management, Division of Environmental Protection or their designated representative.
- n) "Facility Registration Application Form" means the form(s) designated by the Director for making application for coverage under a general permit.
- o) "Trout Streams" means any waters which meet the definition of Section 2.19 of 46 CSR1.

IV. OTHER REPORTING:

1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11.

Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

2. Immediate Reporting

- a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- b) The following shall also be reported immediately:
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (2) Any upset which exceeds any effluent limitation in the permit; and
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.
- c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.
- d) Compliance with the requirements of IV.2 of this section shall not relieve a person of compliance with Title 47, Series 11, Section 2.

3. Reporting Requirements

- a) **Planned changes.** The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:
 - (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or
 - (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.
- b) **Anticipated noncompliance.** The permittee shall give notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a).



George Eidel <doddridgecountyfpm@gmail.com>

Mountaineer Xpress Pipeline Floodplain permits extension request

Karen M. Gleason <KGleason@sse-llc.com>
To: George Eidel <doddridgecountyfpm@gmail.com>

Wed, Jan 16, 2019 at 8:08 AM

George,

As discussed, the purpose of this email is to request an extension of the attached permits, 18-500 and 17-499 because the project is still in construction.

Please let me know if you need additional information at this time.

Thank you,

Karen

Karen Gleason

Senior Permitting – Hydraulic Professional

Stahl Sheaffer Engineering, LLC

6000 Town Center Blvd., Suite 215

Canonsburg, PA 15317

C: 724.321.4886

O: 724.960.1111

F: 724.960.1162

kgleason@sse-llc.com

sse-llc.com

2 attachments**20190115071644179.pdf**
355K**FP 18-500 Columbia Gas Amended Doddridge Floodplain permit.pdf**
373K



George Eidel <doddridgecountyfpm@gmail.com>

Mountaineer Xpress Pipeline Floodplain permits extension request

Karen M. Gleason <KGleason@sse-llc.com>
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6000 Town Center Blvd., Suite 215

Canonsburg, PA 15317

C: 724.321.4886


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373K



George Eidel <doddridgecountyfpm@gmail.com>

Floodplain Permit #17-500

2 messages

Tina Del Prete <tna4mail@yahoo.com>

Thu, Jan 18, 2018 at 11:04 AM

To: "doddridgecountyfpm@gmail.com" <doddridgecountyfpm@gmail.com>

Dear Mr.Eidel,

My name is Tina Del Prete and I live on Riggins Run Road.I received some papers from you in regards to this pipeline and flood plain.

I have many questions and would like you to hold a meeting to discuss concerns. I understand you told someone that you already held a meeting,so I would like to know when and where and what issues were discussed if you will not have another one.I saw no notices of a meeting.In the cover letter,it states that" on the 27th day of December,2017,Stalh Sheaffer Engineering on behalf of Columbia gas filed an application for a Floodplain Permit." So when was this meeting you say you had already? Today is January 18th.

I am also confused as to how you can have one permit to cover 13 different areas. Each area has it's own unique quality and different topography.How can you raise the floodplain or lower it the exact same at each site. I went to all those meetings when we were writing up the floodplain ordinance and I don't remember in any of the changes mentioning being able to use one permit for so many sites. If you have a number for a state run floodplain office,I would appreciate you sending that to me so I can find out.

I am also hoping you will accept this email as my comments on this project for the record.I am very confused as to how everything is being handled.

Respectfully yours,

Tina Del Prete
4805 Riggins Run Road
West Union,WV 26456
304-782-2096

George Eidel <doddridgecountyfpm@gmail.com>

Thu, Jan 18, 2018 at 1:06 PM

To: Tina Del Prete <tna4mail@yahoo.com>

Miss Del Prete,

Thank you for contacting our office. The paperwork you received is to let you know that there will be work being done in the floodplain in your area, as stated there is nothing you have to do, it is just notifying you of the permit application. You did not have any specific questions but I will reach out and call you to see if I can answer some of them. The meeting that someone told you about is when we read the floodplain permit at the commission meeting. Per our floodplain ordinance we are required to place an ad in the news paper on the project, which was done, send out certified letters to those at adjacent properties, which is what you received. The notice is then place on the next commission meeting agenda, at the meeting I read the basic information of the permit, this is the same information you received. This is a time to make comment or as you have done, which is to contact our office in writing within the 20 day comment period per the floodplain ordinance. As for holding a separate meeting, per the floodplain ordinance our office has discretion on whether to hold one or not and at this time we do not feel the need to do so. Your concerns will be noted in the permit and we will reach out to Columbia to let them know of them.

As for the one permit covering all 13 crossings, we give the whole project one permit number, to give each crossing its own number would require having a file for each one. Nothing in the ordinance is mentioned about handling permits with

multiple crossings. In your comment "How can you raise the floodplain or lower it the exact same at each site", the permittee has certified that there will be no rise to the floodplain as all crossing will be brought back to their natural grade after the work is completed. All of the crossing construction will be completed in the same manner. If you would like to view the permit application please contact our office and we can set up a time for you to come in. If you would like a copy of the latest version of our floodplain ordinance you may request one and we will send it to you in either hard copy form or electronically. If you would like to contact the state you may do so, call the West Virginia Division of Homeland Security and Emergency Management at (304) 957-2571 and ask for a floodplain coordinator. As stated our office will print this email and place it in the file for this permit application. Thank you for taking the time to write and I look forward to talking with you soon.

Sincerely,

George Eidel

[Quoted text hidden]

--



George C. Eidel, CFM, OEM Director/Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street Suite 3
West Union, WV 26456-2095
Work Phone: 1-304-873-1343
Mobile Phone: 1-304-281-7407
Fax: 1-304-873-1840
doddridgecountyfpm@gmail.com

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The Doddridge Independent

The Doddridge Independent PUBLISHER'S CERTIFICATE

I, Michael D. Zorn, Publisher of The Doddridge Independent, A newspaper of general circulation published in the town of West Union, Doddridge County, West Virginia, do hereby certify that:

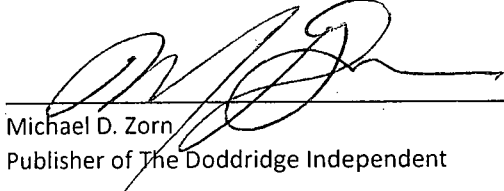
Please take notice that on the 27th day of December, 2017, Stahl Sheaffer Engineering on Behalf of Columbia Gas filed an application for a Floodplain Permit (#17-500) to develop land located at or about SEE ATIACHED SHEET (BELOW) Coordinates SEE ATIACHED SHEET (BELOW). The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by January 22, 2018 (20 calendar days after the

was published in The Doddridge Independent 2 times commencing on Friday, January 5, 2018 and Ending on Friday, January 12, 2018 at the request of:

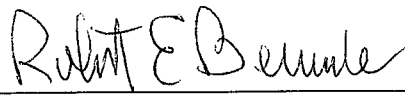
George Eidel, Doddridge County Floodplain Manager & Doddridge County Commission

Given under my hand this Tuesday, January 16, 2018

The publisher's fee for said publication is:
\$ 52.41 1st Run/\$ 39.31 Subsequent Runs
This Legal Ad Total: \$ 91.72


Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on
this date: 1, 16, 2018


Robert E. Beunke

Notary Public in and for Doddridge County
My Commission expires on
The 16 day of May 2019

Floodplain Public Notice - Legal Notice

Please take notice that on the 27th day of December, 2017, Stahl Sheaffer Engineering on Behalf of Columbia Gas filed an application for a Floodplain Permit (#17-500) to develop land located at or about SEE ATIACHED SHEET (BELOW) Coordinates SEE ATIACHED SHEET (BELOW). The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by January 22, 2018 (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. This project is the Mountaineer Xpress Pipeline.

Columbia Gas Transmission's Mountaineer Xpress Pipeline Floodplain Permit #17-500 Crossings

Location:	Coordinates:	Map Panel
1. McElroy Creek@Rt23	39.405828 N / -80.682072 W	54017C0045C
2. Riggins Run	39.393856 N / -80.684947 W	54017C0045C
3. Flint Run	39.344510 N / -80.697478 W	54017C0130C
4. Buckeye Creek	39.826099 N / -80.711125 W	54017C0140C
5. Meathouse Fork	39.270220 N / -80.728077 W	54017C0140C
6. Meathouse Fork	39.261066 N / -80.724129 W	54017C0140C
7. Meathouse Fork	39.260235 N / -80.727304 W	54017C0140C
8. Bluestone Creek	39.245098 N / -80.758161 W	54017C0225C
9. Bluestone Creek	39.242306 N / -80.763096 W	54017C0225C
10. Bluestone Creek	39.239148 N / -80.765628 W	54017C0225C
11. S.Fork Hughes River	39.204289 N / -80.832190 W	54017C0225C
12. Toms Fork	39.234462 N / -80.696298 W	54017C0230C
13. Meathouse Fork	39.214855 N / -80.678853 W	54017C0235C

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