

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

Floodplain

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)

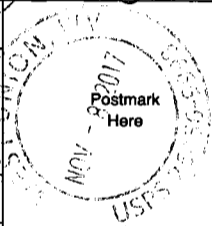
- Return Receipt (hardcopy) \$ 2.15
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59



Sent To

William B. McCarty

Street and Apt. No. or PO Box No.

1731 Buffalo Catf Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491

0922 5222 0000 0990 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.

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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

Clarence W. Mutschelknaus

Street and Apt. No. or PO Box No.

P.O. Box 351

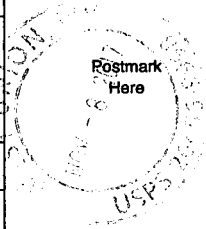
City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



9422 5222 0000 0990 2102

Certified Mail service provides the following benefits:

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Domestic Mail Only

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OFFICIAL USE

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\$ 3.35

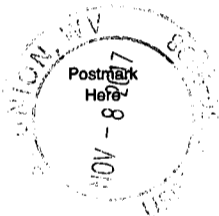
Extra Services & Fees (check box, add fee as appropriate)

- 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 B. & Chad W. Johnson
Street and Apt. No., or PO Box No.
109 Platinum Dr.
City, State, ZIP+4®
Bridgeport, WV 26330 17-491



7017 0660 0000 0990 2275 7252 5521

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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3.35

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

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

Postage

\$

.49

Total Postage and Fees

\$

6.54

Sent To

Marshall B. Judith A. Nestor, Jr.

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

1 First American Way

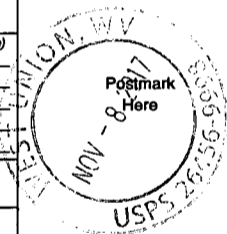
City, State, ZIP+4®

Westlake, TX 76262

17-491

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

See Reverse for Instructions



7015 3430 0001 1569 6128
8219 695T 1000 0E4E 5102

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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

Richard B. & Linda Rokeson

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

921 Buffalo Cat Rd.

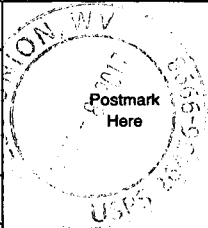
City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 6478

Certified Mail service provides the following benefits:

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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

Elizabeth F. Wilson

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

230 Liberty Ave.

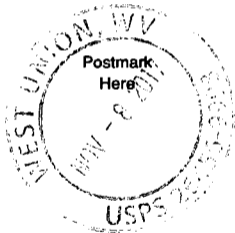
City, State, ZIP+4®

Clarksburg, WV 26301

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 6461

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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 - 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

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OFFICIAL USE

Certified Mail Fee
\$ **3.35**

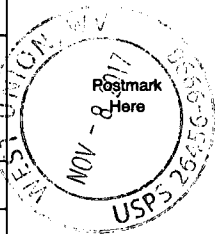
Extra Services & Fees (check box, add fee as appropriate)

- 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 **Betty D. Garwood**
Street and Apt. No. or PO Box No.
1452 Buffalo Cat Rd.
City, State, ZIP+4®
Salem, WA 97326



17-491

7017 1450 0001 5871 6454
4549 1285 7000 0547 2702

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

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

Postage .49

\$ 6.59

Total Postage and Fees

\$ 6.59

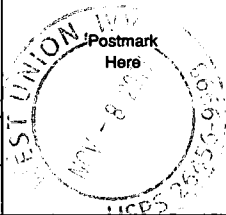
Sent To

Michael K. & Michelle L. DeVinney
Street and Apt. No., or PO Box No.

22 Miketus Rd.
City, State, ZIP+4®
Salem, WA 98642

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

See Reverse for Instructions



7017 1450 0001 5871 6447

17-491

Certified Mail service provides the following benefits:

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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

\$ **6.54**

Sent To

Lois Jean Braun

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

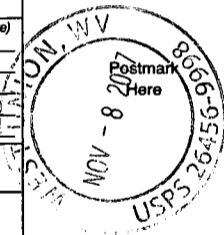
9699 WV Rt. 23

City, State, ZIP+4®

West Union, WV 26456 17-491

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

See Reverse for Instructions



2017 1450 0001 5871 6430
0547 1295 1000 0547 2102

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

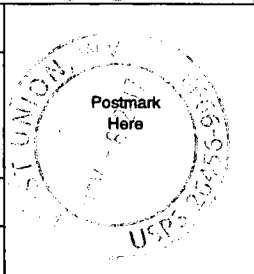
Certified Mail Fee
\$ **3.35**

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

<input type="checkbox"/> Return Receipt (hardcopy)	\$ 2.75
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
\$ **.49**

Total Postage and Fees
\$ **6.59**



Sent To **Larry D. Law**
Street and Apt. No., or P.O. Box No. **P.O. Box 193**
City, State, ZIP+4® **West Union, WV 26456 17491**

7017 1450 0001 5871 6423
E249 1295 1000 0547 2107

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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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 - 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)

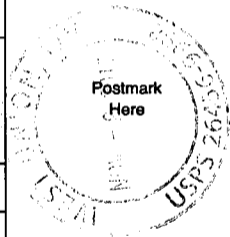
- Return Receipt (hardcopy) \$ 2.15
 Return Receipt (electronic) \$ _____
 Certified Mail Restricted Delivery \$ _____
 Adult Signature Required \$ _____
 Adult Signature Restricted Delivery \$ _____

Postage

\$.49

Total Postage and Fees

\$ 6.59



Sent To

Douglas B. & Brenda L. Stout, Sr.

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

154 Rhododendron Ln.

City, State, ZIP+4®

Buckhannon, WV 26201 17-491

7017 0660 0000 2275 7369

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.
- 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).

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;
- 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

Barbara J. Nicholson

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

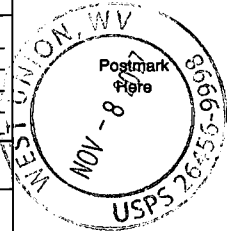
P.O. Box 63

City, State, ZIP+4®

Salem, WV 26426

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

See Reverse for Instructions



25E2 5225 0000 0960 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.
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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®.

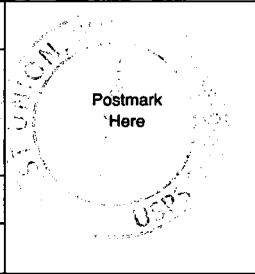
OFFICIAL USE

Certified Mail Fee

\$ 3.35

Extra Services & Fees (check box, add 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

Shelby, Alessia A. McKinney

Street and Apt. No. or PO Box No.

1332 Canton Ad.

City, State, ZIP+4®

West Union, WV 26456

17-491

7017 0660 0000 2275 7345

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.
- 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).

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;
 - 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

WV Dept. of Transportation Division of Highways
Street and Apt. No., or PO Box No.

P.O. Box 2570

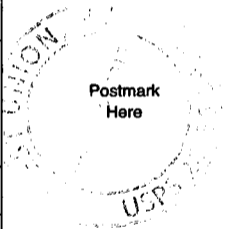
City, State, ZIP+4®

Clarksburg, WV 26302

17-491

PS Form 3800, April 2013 PSN 7530-02-000-9047

See Reverse for Instructions



7017 0660 0990 0000 2275 7338

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).
- 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

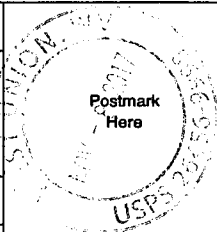
Total Postage and Fees

\$ 6.59

Sent To

Ina Mayles
Street and Apt. No., or PO Box No.
3709 Long Run Rd.
City, State, ZIP+4®
Salem, WV 26426

17-491



7017 1450 0001 5871 6577
2259 1295 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.
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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).
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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

Ralph Sandora, Jr.

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

276 Nazareth Farm Rd.

City, State, ZIP+4®

Salmon, WV 26426

17-491



7017 1450 0001 5871 6560
0959 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:

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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).
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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

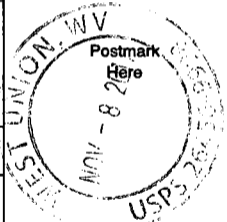
Total Postage and Fees
\$ 6.59

Sent To James & Ellen Joan Sullivan, Sr.

Street and Apt. No., or PO Box No.
91 Antioch Rd.

City, State, ZIP+4®
Salem, WV 26426

17-491



7017 1450 0001 5871 6559
E559 7295 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

Fred W. & Venita F. Zinn

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

1842 Buffalo Catf Rd.

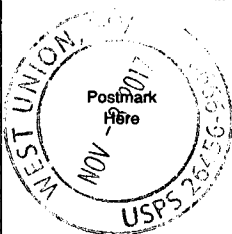
City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



7102 2107 0547 1000 7295 6546

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

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent to

Roberta J. Martin

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

38 Hide Away Ln.

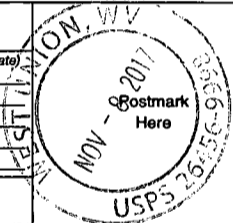
City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 6539
6539 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.
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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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- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
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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)

\$ 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

Horner L. Moore; Forest C. Moore

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

166 Horner Lee Dr.

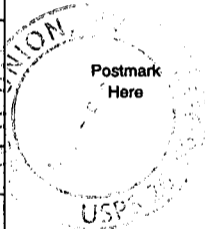
City, State, ZIP+4®

West Union, WV 26456

17-491

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

See Reverse for Instructions



2259 1295 1000 0541 2102
7017 1450 0001 5871 6522

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

Postage

\$

.49

Total Postage and Fees

\$

6.59

Sent to

Robert M. Haug; Dawn C. Friello

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

204 Cheuvront Ave.

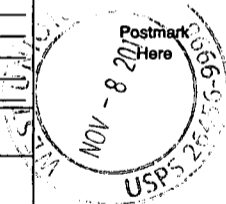
City, State, ZIP+4®

West Union, WA 98586

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 6515
5159 1295 1000 0547 2102

Certified Mail service provides the following benefits:

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

Stephen E. & Barbara S. Dolly

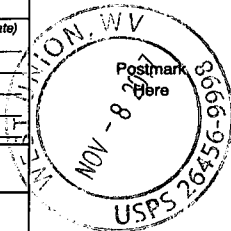
Street and Apt. No., or PO Box No.

187 Elder Camp Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 6509

9059 1295 1000 0541 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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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

Lola Bowen

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

4502 Greenbrier Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 6492
2649 T285 T000 0547 1707

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

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

City, State, ZIP+4®

Roy D. & June L. Ash

3682 Long Run Rd.

Salem, WV 26426

17-491

Postmark
Here

7017 1450 0001 5871 6485

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

Clarence & Deborah E. Trent, Jr.

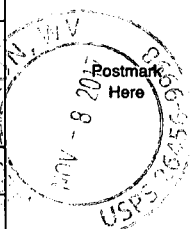
Street and Apt. No., or PO Box No.

1054 Wolf Pen Rd.

City, State, ZIP+4®

New Milton, WV 26411

17-491



2492 7285 7000 0547 2702
2017 1450 0001 5871 7642

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

Jason & Jennifer L. (Trickett) Powers

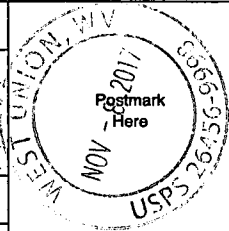
Street and Apt. No., or PO Box No.

3960 Long Run Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



2017 1450 0001 5871 7635

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

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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

Mike Ross, Inc.

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

P.O. Box 219

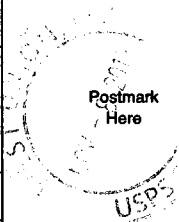
City, State, ZIP+4®

Coalton, WA 26257

17-491

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

See Reverse for Instructions



2599 1285 1000 0541 2102
2017 1450 0001 5871 6652

Certified Mail service provides the following benefits:

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CERTIFIED MAIL® RECEIPT
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

Jason S. & Pamela M. Trent

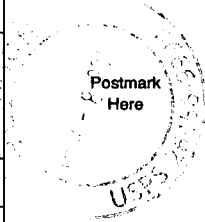
Street and Apt. No., or PO Box No.

166 John Trent Rd.

City, State ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 6645
5499 T295 T000 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

William J. Jr. Phyllis M. & William, III Sembello

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

P.O. Box 170

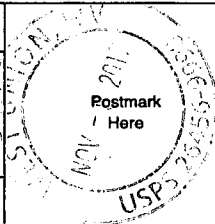
City, State, ZIP+4®

Buckhannon, WV 26201

17-491

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

See Reverse for Instructions



9899 T295 T000 054T 2T02
7017 1450 0001 5871 6638

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

William N. McMillan

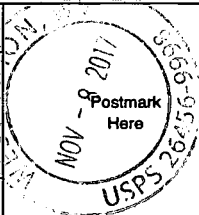
Street and Apt. No. or PO Box No.

7804 Cherry Orchard Ct.

City, State, ZIP+4®

Springfield, VA 22153

17-491



7299 7295 7000 0547 2102
7017 1450 0001 5871 6621

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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IMPORTANT: Save this receipt for your records.

U.S. Postal ServiceTM
CERTIFIED MAIL[®] RECEIPT
Domestic Mail Only

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

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\$

3.35

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- 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

Carl Wiles

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

9007 WVRT. 23

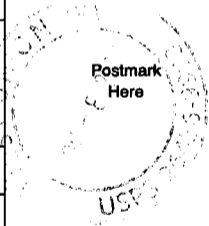
City, State, ZIP+4[®]

Center Point, WV 26339

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 6634
4799 7285 7000 0547

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

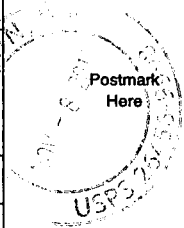
Certified Mail Fee
\$ 3.35

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
Samuel, Sherril & Robert E. Hammett
Street and Apt. No., or PO Box No.
955 Bull Creek
City, State, ZIP+4®
Waverly, WV 26184 17491

7017 1450 0001 5871 6607 2095 1285 1000 0547

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

Jeffrey L. Edgell

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

274 Walnut Creek Rd.

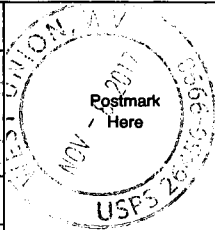
City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



1659 1295 1000 0541 2102

Certified Mail service provides the following benefits:

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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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

Deborah McTe
Street and Apt. No. or PO Box No.

1614 Buffalo CalF Rd.

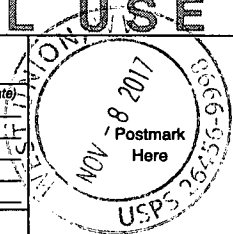
City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 6584
4859 1285 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

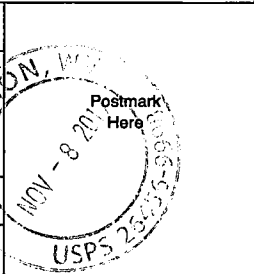
Certified Mail Fee
\$ **3.35**

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

<input type="checkbox"/> Return Receipt (hardcopy)	\$ 2.75
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
\$ **.49**

Total Postage and Fees
\$ **6.59**



Sent To **Anthony R. Nicholas**
Street and Apt. No., or PO Box No. **635 Miletus Rd.**
City, State, ZIP+4® **Salem, WV 26426 17-491**

7017 1450 0001 5871 7741

Certified Mail service provides the following benefits:

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

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OFFICIAL USE

Certified Mail Fee
\$ **3.35**

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

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

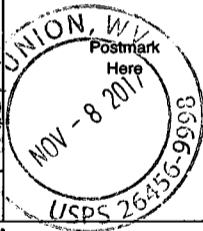
Postage
\$ **.49**

Total Postage and Fees
\$ **6.59**

Sent To **Charles D. Meek**

Street and Apt. No., or PO Box No.
302 miletus Rd.

City, State, ZIP+4®
Salmon, WV 26426



7017 1450 0001 5871 7734
HELL T285 T000 054T 2T02

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

Postage

\$ **49**

Total Postage and Fees

\$ **6.59**

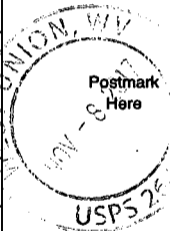
Sent To

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



Gary & Rebecca M. Martin

4294 Greenbrier Rd.

Salem, WV 26426 17491

7017 1450 0001 5871 7727

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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)

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

Postage **49**

\$

Total Postage and Fees

\$ **6.59**

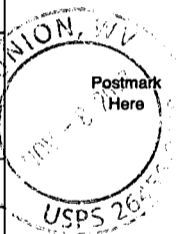
Sent To

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



Mary Bates

10225 WV Rt. 23

West Union, WV 26456

17-491

7017 1450 0001 5871 7710

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Certified Mail Fee

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

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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

Jefferey E. McKinney

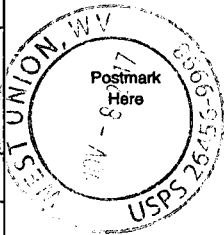
Street and Apt. No., or PO Box No.

3 Hide Away Ln.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7703

Certified Mail service provides the following benefits:

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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

Richard D. Marguerite P. Clevenger

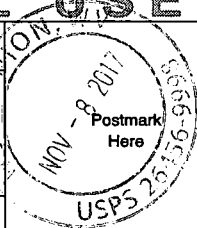
Street and Apt. No., or PO Box No.

3730 Greenbrier Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7697

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

Charles A. Sweeney

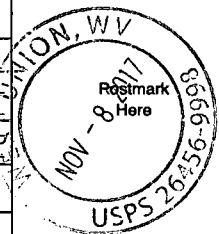
Street and Apt. No., or PO Box No.

208 W. North St.

City, State, ZIP+4®

Harrisville, WV 26362

17-491



7017 1450 0001 5871 7680

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

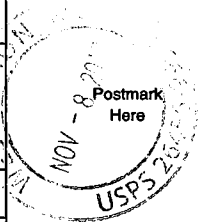
Timothy A. & Beth A. Dixon
Street and Apt. No., or PO Box No.

114 Lesliel Ln.

City, State, ZIP+4®

Yorktown, VA 23693

17-491



9992 TL85 T000 054T 2T07
2017 1450 0001 5871 7666

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

Walter J. & Muriel E. Hrotkow

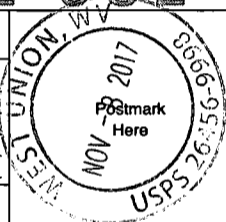
Street and Apt. No., or PO Box No.

23 Meadowview Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7659
6592 7285 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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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

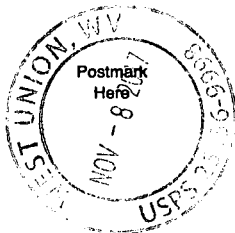
\$ **6.59**

Sent To **Mary K. Baker**

Street and Apt. No., or PO Box No.
1756 W. Rt. 23

City, State, ZIP+4®
Salem, WV 26426

17-491



2017 1450 0001 5871 7673
E292 T295 T000 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.

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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

Board of Education

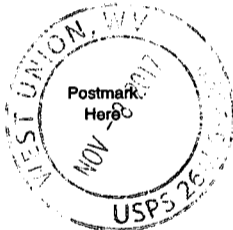
Street and Apt. No., or PO Box No.

103 Sistersville Pk.

City, State, ZIP+4®

West Union, WV 26456

17-491



7017 1450 0001 5871 7840

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

Alan & Michelle Nicholson

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

52 Kearns Rd.

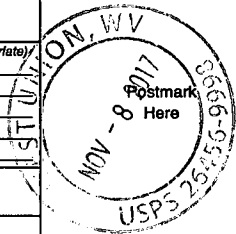
City, State, ZIP+4®

Bristol, WV 26426

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 285 000 0547 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

Larry B. Jenkins

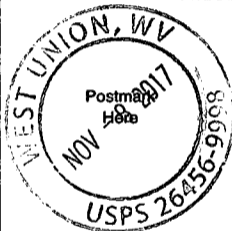
Street and Apt. No., or PO Box No.

10471 Meathouse Fork Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7826
9292 1285 1000 0547 2102

Certified Mail service provides the following benefits:

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- 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 fees 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

Paul R. Snider; Elaine M. Starkey

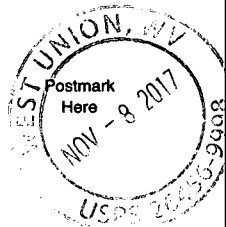
Street and Apt. No., or PO Box No.

1687 M. Letus Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7819

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

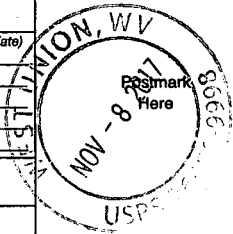
Certified Mail Fee
\$ 3.35

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 Lowell P. & Sharon D. Bee

Street and Apt. No., or PO Box No.
9844 Meathouse Fork Rd.

City, State, ZIP+4®
Salem, WV 26426 17-491

7017 1450 0001 5871 7802

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

Quanita M. Crabbe

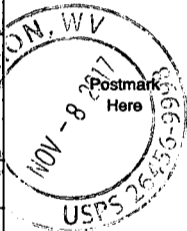
Street and Apt. No., or PO Box No.

5912 Goodstone Dr.

City, State ZIP+4®

Raleigh, NC 27616

17-491



7017 1450 0001 5871 7796

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 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**

Sent To

Christopher Mackey & Nina Nutter

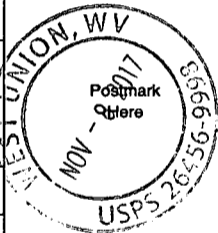
Street and Apt. No., or PO Box No.

14 Cummings St.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7789

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

\$ 6.59

Total Postage and Fees

\$ 6.59

Sent To

Demetrius D. Travis

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

98 Liberty St.

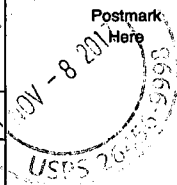
City, State ZIP+4®

Salem, WV 26142

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 7772

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).
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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

Francis E. & Linda J. Law

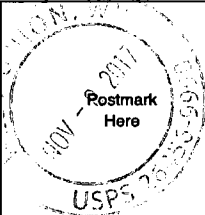
Street and Apt. No., or PO Box No.

78 Meadowview Rd.

City, State ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7765

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).
- 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 fees 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

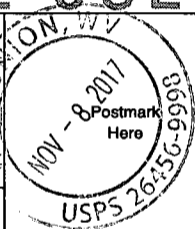
\$ **6.59**

Sent To

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

City, State, ZIP+4®

Perry W. Chipps
984 Sunnyside Rd.
West Union, WV 26456 17-491



7017 1450 0001 5871 7758

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.
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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

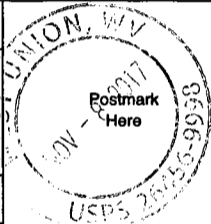
Street and Apt. No., or PO Box No.

Clarence Trent, Jr.
22384 Case Ct.

City, State, ZIP+4®

Macomb, MI 48044

17-491



7017 1450 0001 5871 7949

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

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

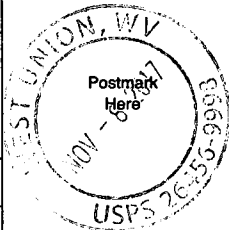
Sent To

Carolyn Chumley
Street and Apt. No., or PO Box No.
4186 Greenbrier Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7932

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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- 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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- 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

William B. & Cathy D. Wells

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

16 Gain St.

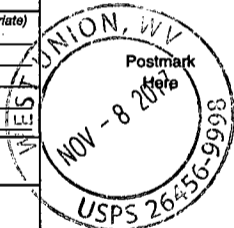
City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 7925

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:
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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

\$

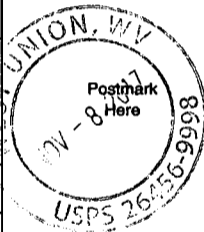
6.59

Sent To

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

City, State, ZIP+4®

Inge M. Lang
1501 Miletus Rd.
Salem, WV 26426



17-491

7017 1450 0001 5871 7918

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 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

\$ 6.59

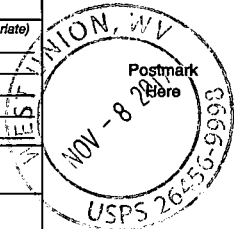
Sent to

Richard & Chantel Campbell

Street and Apt. No., or PO Box No.
2550 West Field

City, State, ZIP+4®
Evanston, IL 60123

17-491



7017 1450 0001 5871 7901

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**

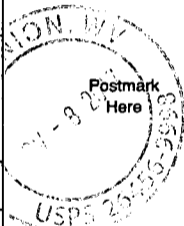
Total Postage and Fees
\$ **6.59**

Sent To: **Charles H. & Elaine Sue Dixon**

Street and Apt. No., or PO Box No.
1848 Green Ave.

City, State, ZIP+4®
Clarksburg, WV 26301

17-491



7017 1450 0001 5871 7895

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

Carolyn M. Plaughter

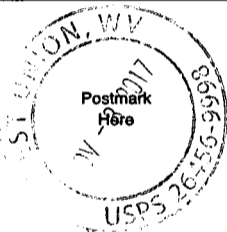
Street and Apt. No., or PO Box No.

2335 Buffalo Calf Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7888

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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 - 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

\$ 4.59

Sent To

Robert G. Honner G. Carder

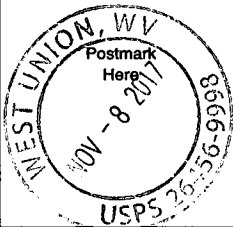
Street and Apt. No. or PO Box No.

P.O. Box 17

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7871

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

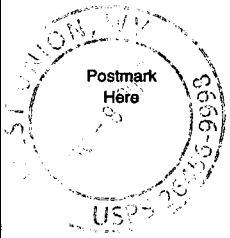
Certified Mail Fee
\$ **3.35**

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 **Kresa G. Freeman**

Street and Apt. No., or PO Box No.
10609 Meathouse Fork Rd.

City, State ZIP+4®
Salmon, WV 26426

17-491

7017 1450 0001 5871 7864

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.
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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

Henry A. & Kimberly R. Ahowse

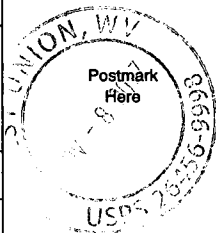
Street and Apt. No., or PO Box No.

93 Penny Ln.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7857

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 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 A. Penelope B. Mills

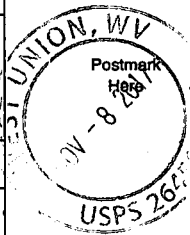
Street and Apt. No., or PO Box No.

1083 Miletus Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 8045

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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- 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

Roderick T. Lynch

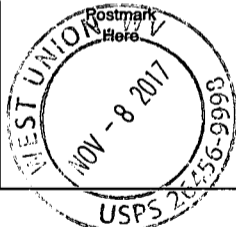
Street and Apt. No., or PO Box No.

9777 Meathouse Fork Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 8038

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

Mary L. Glaspell

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

14723 WV Rt. 23

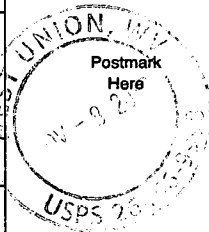
City, State, ZIP+4®

West Union, WV 26456

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 8014

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

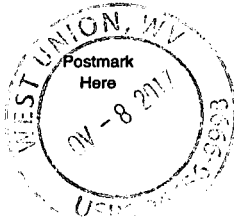
Karen S. McKinney
Street and Apt. No., or PO Box No.

1352 Miletus Rd.

City, State, ZIP+4®

Salem, WV 26426

17-491



2017 1450 0001 5871 8021
2201 2295 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.
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- 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 Robert O. Hardman

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

110 Westwood Ave.

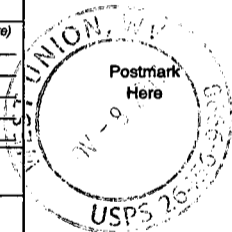
City, State, ZIP+4®

Bridgport, WV 26330

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 8007

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

Postage

\$ **.49**

Total Postage and Fees

\$ **6.59**

Sent To

Donald A. Lynch

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

9817 Meathouse Fork Rd.

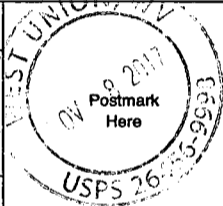
City, State, ZIP+4®

Salem, WV 26426

17-491

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

See Reverse for Instructions



4662 7285 7000 0547 2702
2017 1450 0001 5871 7994

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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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

Gilberta Mae Fox

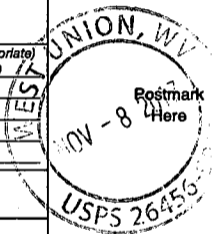
Street and Apt. No., or PO Box No.

180 E. Main St.

City, State, ZIP+4®

Salem, WV 26426

17-491



7017 1450 0001 5871 7987

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

\$ 6.54

Sent To

WV Railroad Maintenance Authority

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

120 Water Plant Dr.

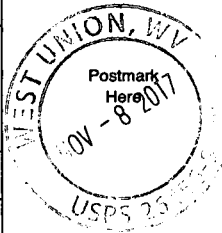
City, State, ZIP+4®

Morefield, WV 26836

17-491

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

See Reverse for Instructions



7017 1450 0001 5871 7970

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.

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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

Benjamin T. Lisa A. Stout

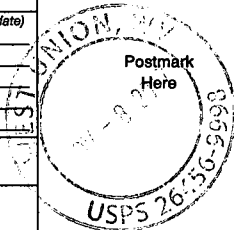
Street and Apt. No., or PO Box No.

4749 Greenbrier Rd.

City, State, ZIP+4®

Salern, WV 26426

17-491



7017 1450 0001 5871 7962

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).
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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

Stephen W. Remonda L. Trent

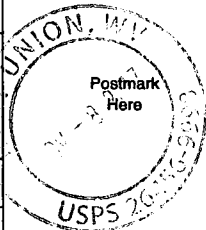
Street and Apt. No., or PO Box No.

14 Millbrook Rd.

City, State, ZIP+4®

Bridgeport, WV 26330

17-491



7017 1450 0001 5871 7956

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 \$ _____

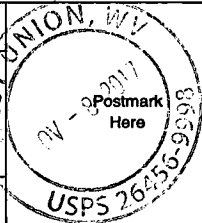
Postage
\$.49

Total Postage and Fees
\$ 6.59

Sent To Kenneth P. & Ronda J. Moran

Street and Apt. No., or PO Box No.
1054 Wolf Pen Rd.

City, State, ZIP+4®
New Milton, WV 26411



7017 1450 0001 5871 8113
ET18 T285 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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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

Franklin K. Fidler

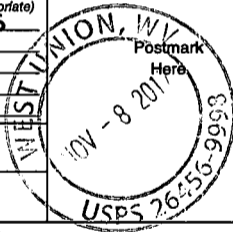
Street and Apt. No., or PO Box No.

935 Needmore Rd.

City, State, ZIP+4®

Koopersville, GA 30170

17-491



7017 1450 0001 5871 8106

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

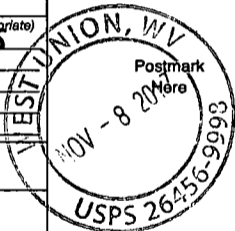
Certified Mail Fee
\$ **3.35**

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
Brent D. Queen; Donald Crawford

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

Valley View

City, State ZIP+4®

Follansbee WV 26037

17-491

7017 1450 0001 5871 8090

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

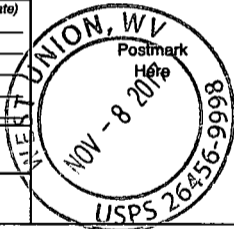
Certified Mail Fee
\$ **3.35**

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
Crestwood Marcellus Midstream, LLC
Street and Apt. No., or PO Box No.
801 Cherry St.
City, State, ZIP+4®
Fort Worth, TX 76102 17-491

2017 1450 0001 5871 8083

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

Thomas K. Kimberly R. Smith

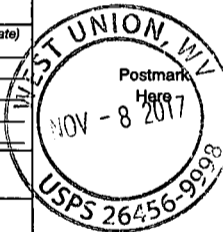
Street and Apt. No., or PO Box No.

P.O. Box 1022, SU-24

City, State, ZIP+4®

Van Nuys CA 91410

17-491



7017 1450 0001 5871 8076

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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- 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

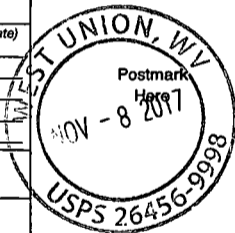
Certified Mail Fee
\$ **3.35**

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 **Frey Archie Ross**
Street and Apt. No., or PO Box No.
3679 Martin Ave.
City, State, ZIP+4®
Dayton OH 45416

17-491

7017 1450 0001 5871 8069

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

Charles R. Leslic A. Underwood, II

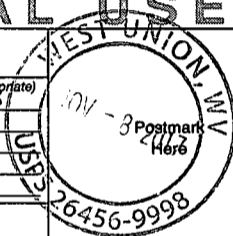
Street and Apt. No., or PO Box No.

1467 Milestus Rd.

City, State, ZIP+4®

Salem WV 26426

17-491



7017 1450 0001 5871 8052
2508 T285 T000 0547

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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- 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.

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 B. & Chad W. Johnson
109 Platinum Drive
Bridgeport, WV 26330



9590 9402 3306 7196 1883 14

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

A. Sims

Agent

Addressee

B. Received by (Printed Name)

A. SIMS

C. Date of Delivery

11-9-17

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

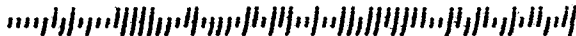
9590 9402 3308 7196 1883 14

**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**

17-491



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.

Robert O. Hardman Et UX
110 Westwood Avenue
Bridgeport, WV 26330



9590 9402 3306 7196 1884 37

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Robert O. Hardman 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 7396 1884 37

**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**

17-491



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.

pt. of Transportation Division of Highways
 P.O. Box 2570
 Clarksburg, WV 26302



9590 9402 3306 7196 1881 92

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Kay Sharp

- Agent
 Addressee

B. Received by (Printed Name)

Kay Sharp

C. Date of Delivery

11-9-17.

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 3308 7196 1881 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**

17-491



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:

Jr., Phyllis M. S & William, III Sembello (SURV)
 P.O. Box 170
 Buckhannon, WV 26201



9590 9402 2859 7069 5375 84

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Phyllis Sembello*

-
- Agent
-
-
- Addressee

B. Received by (Printed Name)

Phyllis Sembello

C. Date of Delivery

11-10-17
 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#

CHARLESTON



PM 2 L

9590 9402 2859 7069 5375 84



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

17-491



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.

Elizabeth F. Wilson
230 Liberty Avenue
Clarksburg, WV 26301



9590 9402 3306 7196 1882 77

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Elizabeth Wilson*

- Agent
 Addressee

B. Received by (Printed Name)

Elizabeth Wilson

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 1882 77

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

17-491



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.

nt D. Queen & Donald Crawford
 Valley View
 Follansbee, WV 26037



9590 9402 3306 7196 1883 52

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *D. Brent Queen*

Agent

Addressee

B. Received by (Printed Name)

DBRENT QUEEN

C. Date of Delivery

11-10-17

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 1883 52

**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**

17-491



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.

as B. & Brenda L. Stout, Sr. (SURV)
154 Rhododendron Lane
Buckhannon, WV 26201



9590 9402 3306 7196 1882 22

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

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-1U

9590 9402 3306 7196 1882 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**

17-491



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.

Robert M. Haug & Dawn C. Friello
204 Chevront Avenue
West Union, WV 26456



9590 9402 3306 7196 1880 00

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 1880 00

**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**

17-491

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.

hen W. & Remonda L.. Trent (SURV)
14 Millbrook Road
Bridgeport, WV 26330



9590 9402 3306 7196 1883 83

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

USPS TRACKING#



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

9590 9402 3306 7196 1883 83

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

17-491

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.

John E. & Barbara S. Dolly (SURV)
187 Elder Camp Road
Salem, WV 26426



9590 9402 3306 7196 1879 97

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Barbara S. Dolly

Agent

Addressee

B. Received by (Printed Name)

B Dolly

C. Date of Delivery

11/14

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 1879 97

**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**

17-491

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.

Jennifer L. (Trickett) Powers (SURV)
3960 Long Run Road
Salem, WV 26426



9590 9402 3306 7196 1879 59

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

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 1879 59

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

17-491

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:

Charles D. Meek
302 Miletus Road
Salem, WV 26426



9590 9402 2859 7069 5375 15

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

W.C. Meek

 Agent Addressee

B. Received by (Printed Name)

C. Meek

C. Date of Delivery

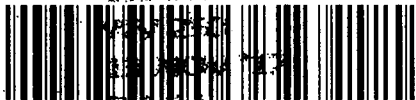
*11/13/12*D. Is delivery address different?
If YES, enter delivery address

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 2859 7069 5375 15



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**

17-491



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.

Ralph Sandora, Jr.
276 Nazareth Farm Road
Salem, WV 26426



9590 9402 3306 7196 1880 55

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Ralph Sandora*

Agent

Addressee

B. Received by (Printed Name)

Ralph Sandora

C. Date of Delivery

11/13/17

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
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USPS
Permit No. G-10

9590 9402 3306 7196 1880 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**

17-491



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 A. & Penelope B. Mills
1083 Miletus Road
Salem, WV 26426



9590 9402 3306 7196 1884 75

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Jeffrey A. Mills

Agent

Addressee

B. Received by (Printed Name)

J. Mills

C. Date of Delivery

11/3/07

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 1884 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

17-491



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: _____

Jeffrey L. Edgell
274 Walnut Creek Road
Salem, WV 26426



9590 9402 2859 7069 5375 46

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Annette Wilson* ~~Agent~~
 Addressee

B. Received by (Printed Name)

Annette Wilson C. Date of Delivery
11/13/17

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 2859 7069 5375 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**

17-491



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.

r L. Moore (LIFE) & Forest C. Moore
166 Homer Lee Drive
West Union, WV 26456



9590 9402 3306 7196 1880 17

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Homer Lee Moore* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

11-13-17

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#



9590 9402 3306 7196 1880 17



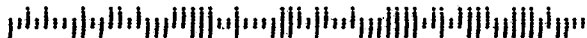
First-Class Mail
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USPS
Permit No. G-10

**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**

17-491



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.

Perry W. Chipps
984 Sunnyside Road
West Union, WV 26456



9590 9402 3306 7196 1885 81

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Perry W. Chipps

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

11-13-17

- 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



9590 9402 3306 7196 1885 81



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USPS
Permit No. G-10

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• 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**

17-491



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.

s & Ellen Joan Sullivan, Sr. (SURV)
91 Antioch Road
Salem, WV 26426



9590 9402 3306 7196 1880 48

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Ellen Joan Sullivan

Agent

Addressee

B. Received by (Printed Name)

Deborah J. Sullivan

C. Date of Delivery

11/13/17

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



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USPS
Permit No. G-10

9590 9402 3306 7196 1880 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**

17-491



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:

ard D. & Marguerite A. Clevenger
3730 Greenbrier Road
Salem, WV 26426



9590 9402 2859 7069 5380 48

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature] Agent
 Addressee

B. Received by (Printed Name)

R Clevenger

C. Date of Delivery

11/3/17

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 2859 7069 5380 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

17-491

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:

Gary & Rebecca M. Martin
4294 Greenbrier Road
Salem, WV 26426



9590 9402 2859 7069 5380 24

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 2859 7069 5380 24

**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**

17-491



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.

el K. & Michelle L. DeVinney (SURV)
22 Miletus Road
Salem, WV 26426



9590 9402 3306 7196 1882 53

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature] Agent
 Addressee

B. Received by (Printed Name)

Mr. DeVinney

C. Date of Delivery

6/13/17

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 3306 7196 1882 53

**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**

17-491



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.

Roy D. & June L. Ash
3682 Long Run
Salem, WV 26426



9590 9402 3306 7196 1879 73

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Roy D. Ash* Agent
 Addressee

B. Received by (Printed Name)

Roy D. Ash

C. Date of Delivery

11/13/12

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

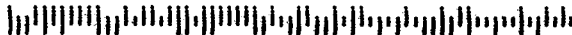
9590 9402 3306 7196 1879 73

**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**

17-491



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.

Ona Mayles (Et Al)
3709 Long Run Road
Salem, WV 26426



9590 9402 3306 7196 1880 62

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Thelma Mayles*

- Agent
 Addressee

B. Received by (Printed Name)

Thelma

C. Date of Delivery

11/13/11

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 1880 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**

17-491



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.

elby & Alessia A. McKinney (SURV)
1332 Canton Road
West Union, WV 26456



9590 9402 3306 7196 1882 08

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Alessia A. McKinney* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

11-13-17

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#



9590 9402 3306 7196 1882 08



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

17-491



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.

Larry B. Jenkins Et UX
10471 Meathouse Fork Road
 — **Salem, WV 26426**



9590 9402 3306 7196 1881 30

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Larry B. Jenkins

Agent

Addressee

B. Received by (Printed Name)

Larry B. Jenkins

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 #



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USPS
Permit No. G-10

9590 9402 3906 7196 1881 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

17-491



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:

1, Sherri L. & Robert E. Hammett
955 Bull Creek
Waverly, WV 26184



9590 9402 2859 7069 5375 53

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

 Agent Addressee

B. Received by (Printed Name)

SC Hammett

C. Date of Delivery

11-9-17

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

1026 OAK Grove Rd
 Waverly, WV 26184

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

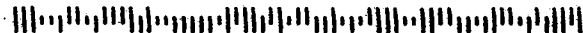
9590 9402 2859 7069 5375 53

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17-491



SENDER: COMPLETE THIS SECTION

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Teresa G. Freeman
10609 Meathouse Fork Road
Salem, WV 26426



9590 9402 3306 7196 1884 99

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Teresa Dakes

- Agent
 Addressee

B. Received by (Printed Name)

Teresa Dakes

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
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USPS
Permit No. G-10

9590 9402 3306 7196 1884 99

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

17-491

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.

**Lola Bowen Et UX
4502 Greenbrier Road
—Salem, WV 26426**



9590 9402 3306 7196 1879 80

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Lola Bowen

Agent

Addressee

B. Received by (Printed Name)

R. Bowen

C. Date of Delivery

11/13/17

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
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USPS
Permit No. G-10--

9590 9402 3306 7196 1879 80

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

17-491



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.

Frey Archie Ross
3679 Marlin Avenue
Dayton, OH 45416



9590 9402 3306 7196 1883 38

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Beverly Frey

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#



9590 9402 3306 7196 1883 38



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

17-491



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 J. Nicholson
P.O. Box 63
Salem, WV 26426



9590 9402 3306 7196 1882 15

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Barbara J. Nicholson

- Agent
 Addressee

B. Received by (Printed Name)

Barbara J. Nicholson

C. Date of Delivery

11/13

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
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Permit No. G-10

9590 9402 3306 7196 1882 15

**United States
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• 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**

17-491



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 W. Mutschelknaus
P.O. Box 351
Salem, WV 26426



9590 9402 3306 7196 1883 07

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Agent
 Addressee
Clarence W. Mutschelknaus

B. Received by (Printed Name)

Clarence W. Mutschelknaus

C. Date of Delivery

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

2
4
49

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 1883 07



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**United States
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• 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**

17-491



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.

Lois Jean Braun
9699 WV Rt. 23
West Union, WV 26456



9590 9402 3306 7196 1882 46

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature]

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

11/13/17

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

3. Service Type

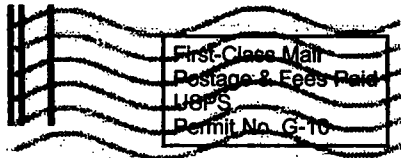
- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

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

USPS TRACKING #



13 NOV 2017 PM 2 J



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9590 9402 3306 7196 1882 46

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

17-491



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:

Mary Bates (LET AL)
10225 WV Rt. 23
West Union, WV 26456



9590 9402 2859 7069 5380 62

2. Article Number (*Transfer from service label*)**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

 Agent AddresseeB. Received by (*Printed Name*)

C. Date of Delivery

11/13/17

 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) | |

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USPS
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9590 9402 2859 7069 5380 62

**United States
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• 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**

17-471



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:

Charles A. Sweeney
208 W. North Street
Harrisville, WV 26362



9590 9402 2859 7069 5380 31

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Agent Addressee

B. Received by (Printed Name)

CHARLES SWEENEY

C. Date of Delivery

11-13-17

D. Is delivery address different from item 1? YesIf 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 2859 7069 5380 31

**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**

17-491



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.

Gilberta Mae Fox
180 E. Main Street
Salem, WV 26426



9590 9402 3306 7196 1884 13

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature]

Agent

Addressee

B. Received by (Printed Name)

Shawnette Fox

C. Date of Delivery

11-13-17

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

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9590 9402 3306 7196 1884 13

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

17-491

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.

**Board of Education
103 Sistersville Pike
West Union, WV 26456**



9590 9402 3306 7196 1881 54

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Carol Taylor

Agent

Addressee

B. Received by (Printed Name)

Carol Taylor

C. Date of Delivery

11-13-17

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

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9590 9402 3306 7196 1881 54

**United States
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• 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**

17-491

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.

Larry D. Law
P.O. Box 193
West Union, WV 26456



9590 9402 3306 7196 1882 39

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Patricia Law*

Agent
 Addressee

B. Received by (Printed Name)

Patricia Law

C. Date of Delivery

11-10-17

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
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USPS
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9590 9402 3306 7196 1882 39

**United States
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• 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**

17-491



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:

Mike Ross, Inc.
P.O. Box 219
Coalton, WV 26257



9590 9402 2859 7069 5376 07

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Taylor Ross

 Agent Addressee

B. Received by (Printed Name)

Taylor Ross

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 checked="" 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 2859 7069 5376 07



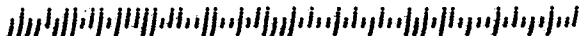
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• Sender: Please print your name, address, and ZIP+4® in this box•

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

17-491



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:

Anthony R. Nicholas
635 Miletus Road
Salem, WV 26426



9590 9402 2859 7069 5375 22

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X


 Agent
 Addressee

B. Received by (Printed Name)

A. Nicholas

C. Date of Delivery

11/14

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 2859 7069 5375 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**

17-491

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.

Mr. J. & Muriel E. Hnotkow (SURV)
23 Meadowview Road
Salem, WV 26426



9590 9402 3306 7196 1881 61

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Ernest Hnotkow

Agent

Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

11/14

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 #



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9590 9402 3306 7196 1881 61

**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**

17-491

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.

neth P. & Ronda J. Moran (SURV)
1054 Wolf Pen Road
New Milton, WV 26411



9590 9402 3306 7196 1883 76

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Ronda J. Moran* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

11-14-17

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 #



9590 9402 3306 7196 1883 76



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

17-491



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 K. Baker
1756 WV Rt. 23
Salem, WV 26426



9590 9402 3306 7196 1881 85

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

M K Baker

Agent

Addressee

B. Received by (Printed Name)

M Baker

C. Date of Delivery

11/14

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 1881 85

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• 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**

17-491



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 B. & Cathy D. Wells
 -16 Gain Street
 Salem, WV 26426



9590 9402 3306 7196 1885 50

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Jennifer Wells

Agent

Addressee

B. Received by (Printed Name)

Jennifer Wells

C. Date of Delivery

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

NOV 14 2017
 26426

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)

USPS

- 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 1885 50

**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**

17-491



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.

red W. & Venita F. Zinn (SURV)
1842 Buffalo Calf Road
Salem, WV 26426



9590 9402 3306 7196 1880 31

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Handwritten Signature]*

Agent

Addressee

B. Received by (Printed Name)

B. Repas

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

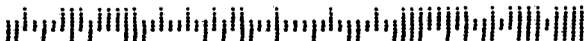
9590 9402 3306 7196 1880 31

**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**

17-491



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:

**Deborah Mcle
1614 Buffalo Calf Road
Salem, WV 26426**



9590 9402 2859 7069 5375 39

2. Article Number (Transfer from service label)**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

 Deborah Mcle
 Agent Addressee

B. Received by (Printed Name)

D. Mcle

C. Date of Delivery

*11/14/07*D. Is delivery address different from item 1? Yes

If YES, enter delivery address below:

 No3. 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

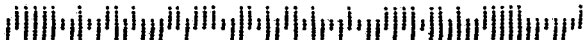
9590 9402 2859 7069 5375 39

**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**

17-491



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.

Henry A. & Kimberly R. Ahouse (SURV)
93 Penny Lane
Salem, WV 26426



9590 9402 3306 7196 1884 82

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

Henry Ahouse

C. Date of Delivery

10/14/17

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 1884 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**

17-491



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.

Lawrence & Deborah E. Trent, Jr.
1054 Wolf Pen Road
New Milton, WV 26411



9590 9402 3306 7196 1879 66

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Ronda J Meron Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

11-14-17

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 3306 7196 1879 66

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

17-491

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.

Moorthy H. & Beth A. Dixon (SURV)
114 Leslie Lane
Yorktown, VA 23693



9590 9402 3306 7196 1881 78

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Beth A. Dixon

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

11/15

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 #



RICHMOND VA 23219

12:07 PM

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

9590 9402 3306 7196 1881 78

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

12-491



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:

William N. McMillan
7804 Cherry Orchard Court
Springfield, VA 22153



9590 9402 2859 7069 5375 77

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Patricia McMillan
 Agent Addressee

B. Received by (Printed Name)

PATRICIA McMILLAN

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 2859 7069 5375 77

**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**

17-491



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

Railroad Maintenance Authority
120 Water Plant Drive
Moorefield, WV 26836

2. Article Number

(Transfer from service label)

PS Form 3811, July 2013

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Tammy Cooper* Agent Addressee

B. Received by (Printed Name)

Tammy Cooper

C. Date of Delivery

*11-13-17*D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

Domestic Return Receipt

440 WA
UNITED STATES POSTAL SERVICE

13 NOV '17

PM 2 1



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

- 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

17-491



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.

Roberta J. Martin
38 Hide Away Lane
Salem, WV 26426



9590 9402 3306 7196 1880 24

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Roberta J. Martin*

Agent

Addressee

B. Received by (Printed Name)

R. Martin

C. Date of Delivery

11/15

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

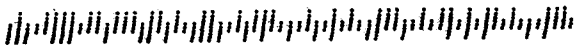
9590 9402 3306 7196 1880 24

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

17-491



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.

Roderick T. Lynch Et UX
9777 Meathouse Fork Road
Salem, WV 26426



9590 9402 3306 7196 1884 68

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Roderick T. Lynch

Agent

Addressee

B. Received by (Printed Name)

R Lynch

C. Date of Delivery

11/15

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 1884 68



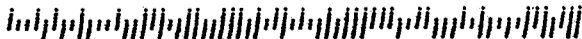
First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

**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**

17-4911



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 H. & Elaine Sue Dixon
1848 Green Avenue
Clarksburg, WV 26301



9590 9402 3306 7196 1885 29

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Elaine Sue Dixon*

Agent

Addressee

B. Received by (Printed Name)

Elaine Sue Dixon

C. Date of Delivery

11-10-17

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 1885 29

**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

17-491



USPS TRACKING #



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

9590 9402 3306 7196 1886 66

United States
Postal Service

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

3802 Smithton Rd.

West Union, WV

26456

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:

WV State Tax
25322



9590 9402 3306 7196 1886 66

2. Article Number (Transfer from service label)

7017 1450 0001 5871 7154

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

RECEIVED

-
- Agent
-
-
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

NOV 15 2017

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

-
- Yes
-
-
- No

WEST VIR. STATE
TAX DEPARTMENT

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

Delivery

USPS TRACKING#



9590 9402 3306 7196 1883 69



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

17-491



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.

Franklin K. Fidler
935 Needmore Road
Roopville, GA 30170



9590 9402 3306 7196 1883 69

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Franklin K. Fidler Agent
 Addressee

B. Received by (Printed Name)

Franklin K. Fidler

C. Date of Delivery

11-14-17

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 checked="" 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) | |

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 L. Glaspell
14723 WV Rt. 23
West Union, WV 26456



9590 9402 3306 7196 1884 44

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Mary Glaspell

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

11-15-17

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

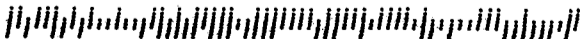
9590 9402 3306 7196 1884 44

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

17-491



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.

Carolyn Chumley
4186 Greenbrier Road
Salem, WV 26426



9590 9402 3306 7196 1885 67

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Carolyn Chumley Agent
 Addressee

B. Received by (Printed Name)

C Chumley

C. Date of Delivery

7/14

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 1885 67

**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**

17-491



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.

Demetrius D. Travis
98 Liberty Street
Salem, WV 26426



9590 9402 3306 7196 1880 86

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature]

Agent

Addressee

B. Received by (Printed Name)

D. Travis

C. Date of Delivery

11/15

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 1880 86

**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**

17-491



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.

Betty D. Garwood
1452 Buffalo Calf Road
Salem, WV 26426



9590 9402 3306 7196 1882 60

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

[Handwritten Name: K. Carver] *[Handwritten Date: 11/15]*

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 EMI



9590 9402 3306 7196 1882 60



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

17-491



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 Trent, Jr.
22384 Case Court
Macomb, MI 48044



9590 9402 3306 7196 1885 74

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Clarence Trent Jr

Agent

Addressee

B. Received by (Printed Name)

Clarence Trent Jr

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 1885 74

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

17-491

-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.

**Inge M. Lang
1501 Miletus Road
Salem, WV 26426**



9590 9402 3306 7196 1885 43

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
 Addressee

B. Received by *(Printed Name)*

William Swiger

C. Date of Delivery

11/16

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 1885 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**

17-491

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.

Richard B. & Linda Roleson (SURV)
921 Buffalo Calf Road
Salem, WV 26426



9590 9402 3306 7196 1882 84

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Linda Roleson Agent
 Addressee

B. Received by (Printed Name)

L Roleson

C. Date of Delivery

11/16

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 1882 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**

17-491

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 B. McCarty
1731 Buffalo Calf Road
Salem, WV 26426



9590 9402 3306 7196 1883 21

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

W B McCarty

Agent

Addressee

B. Received by (Printed Name)

W B McCarty

C. Date of Delivery

11/16

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 1883 21

**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**

17-491

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.

Carolyn M. Plaugher
2335 Buffalo Calf Road
Salem, WV 26426



9590 9402 3306 7196 1885 12

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Carolyn M. Plaugher* Agent
 Addressee

B. Received by (Printed Name)

C. Plaugher

C. Date of Delivery

11/16

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 1885 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**

17-491

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.

Incis E. & Linda J. Law (SURV)
78 Meadowview Road
Salem, WV 26426



9590 9402 3306 7196 1885 98

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Linda Law*

Agent

Addressee

B. Received by (Printed Name)

L Law

C. Date of Delivery

11/16

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 1885 98

**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**

17-491

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.

Donald H. Lynch
9817 Meathouse Fork Road
Salem, WV 26426



9590 9402 3306 7196 1884 20

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Donald H. Lynch*

Agent
 Addressee

B. Received by (Printed Name)

D. Lynch

C. Date of Delivery

6/15/17

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#



9590 9402 3306 7196 1884 20



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**

17-491



SENDER: COMPLETE THIS SECTION

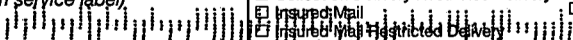
- Complete items 1, 2, and 3:
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Karen S. McKinney
1352 Miletus Road
Salem, WV 26426



9590 9402 3306 7196 1884 51

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

Karen S. McKinney

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

14 Nov 17

D. Is delivery address different from item 1? Yes

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

Domestic Return Receipt

USPS TRACKING #



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

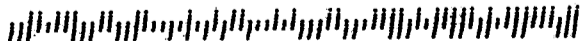
9590 9402 3302 7196 1884 51

**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**

17-491



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.

Lowell P. & Sharon D. Bee
9844 Meathouse Fork Road
Salem, WV 26426



9590 9402 3306 7196 1881 16

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Eric S. Bee*

- Agent
 Addressee

B. Received by (Printed Name)

Eric S. Bee

C. Date of Delivery

11/14

- 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 1881 16

**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**

17-491



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.

Hobert & Homer G. Carder
P.O. Box 17
Salem, WV 26426



9590 9402 3306 7196 1885 05

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Karen Sue Davis

Agent

Addressee

B. Received by (Printed Name)

K Davis

C. Date of Delivery

11/17

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 #



9590 9402 3306 7196 1885 05



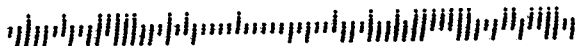
First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

**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**

17-491



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.

an & Michelle Nicholson (SURV)
52 Keams Road
Bristol, WV 26426



9590 9402 3306 7196 1881 47

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Donna Latta

Agent

Addressee

B. Received by (Printed Name)

D Latta

C. Date of Delivery

4/21

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

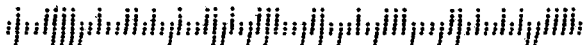
9590 9402 3306 7196 1881 47

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

17-491



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.

Benjamin T. & Lisa A. Stout (SURV)
4749 Greenbrier Road
Salem, WV 26426



9590 9402 3306 7196 1883 90

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
 Addressee

B. Received by (Printed Name)

J Stout

C. Date of Delivery

11/20

- 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 1883 90

**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**

17-491

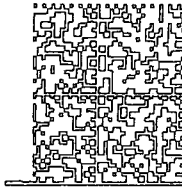


CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 7789



HASLER

\$006.59⁰⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

Christopher Mackey & Nina Nutter
14 Cummings Street
Salem, WV 26426

MIXIE

250 DE 1

0012/13/17

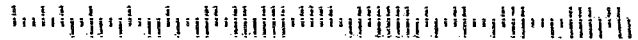
11-13

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

UNC
26426456201205

BC: 26456201205

*1771-03855-08-43



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.

Christopher Mackey & Nina Nutter
14 Cummings Street
Salem, WV 26426



9590 9402 3306 7196 1880 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

- | | |
|--|---|
| <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



Dear Sir or Ma'am,

November 1, 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.

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Respectfully yours,

A handwritten signature in cursive script, appearing to read 'George Eidel'.

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of November 6, 2017)

Please take notice that on the 24th day of October, 2017, Dominion Energy filed an application for a Floodplain Permit (**#17-491**) to develop land located at or about **Doddridge County** (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 **November 27, 2017** (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 Supply Header Pipeline Project a 30 inch pipeline, roughly 26miles through Doddridge County** (see attached list of crossings).

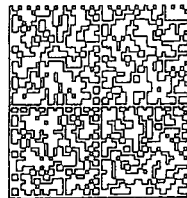
CERTIFIED MAIL

CHARLESTON, WV

Floodplain Manager
Doddrige County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 6645



HASLER

\$006.59⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

Jason S. & Pamela M. Trent (SURV)
166 John Trent Road
Salem, WV 26426

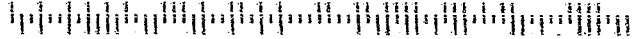
11/13/17
DB 3849

NIXIE 250 DE 1 0012/13/17

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

UNC
26456201205

BC: 26456201205 *1771-03878-08-43



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:

Jason S. & Pamela M. Trent (SURV)
166 John Trent Road
Salem, WV 26426



9590 9402 2859 7069 5375 91

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

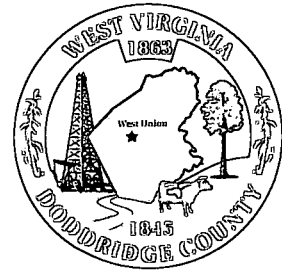
3. Service Type

- 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

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



Dear Sir or Ma'am,

November 1, 2017

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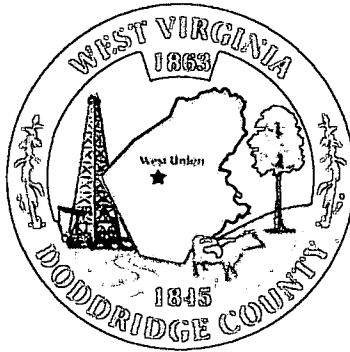
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A handwritten signature in cursive script, appearing to read 'George Eidel'.

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of November 6, 2017)

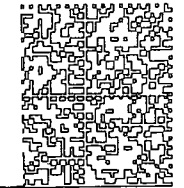
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 7819



HASLER

\$006.59⁰⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

Paul R. Snider & Elaine M. Starkey (SURV)
1687 Miletus Road
Salem, WV 26426

11/13/17
DB 2849

NIXIE 250 DE 1 0012/13/17

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

UNC BC: 26456201205 *1771-03858-08-43
2042035420120

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.

Paul R. Snider & Elaine M. Starkey (SURV)
4 Miletus Road
Salem, WV 26426



9590 9402 3306 7196 1881 23

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,

November 1, 2017

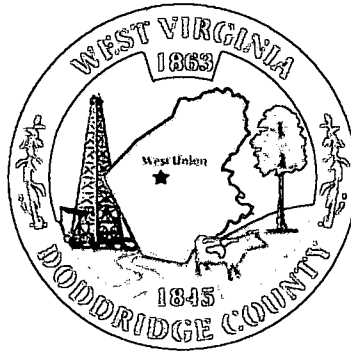
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Doddridge County Floodplain Permits

(Week of November 6, 2017)

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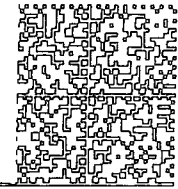
CERTIFIED MAIL

CHARLESTON

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 7703



HASLER

\$006.59⁰⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

Handwritten notes:
LMS 1/14
3889
~~I/A~~

Handwritten: ANK

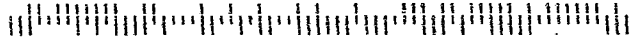
Jefferey E. McKinney
3 Hide Away Lane
Salem, WV 26426

NIXIE 250 FE 1 0011/21/17

RETURN TO SENDER
ATTEMPTED - NOT KNOWN
UNABLE TO FORWARD

ANK
~~26426201205~~
26456201205

BC: 26456201205 *1771-03867-08-43



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS (OLD 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:

Jefferey E. McKinney
3 Hide Away Lane
Salem, WV 26426



9590 9402 2859 7069 5380 55

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



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Respectfully yours,

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George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of November 6, 2017)

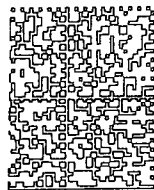
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 7796



HASLER

\$006.59⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

Ins

Quanita M. Crabbe
5712 Goodstone Drive
Raleigh, NC 27616

NIXIE 276 FE 1 0011/21/17

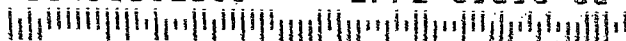
RETURN TO SENDER
NOT DELIVERABLE AS ADDRESSED
UNABLE TO FORWARD

2017
2045672012

UTE

BC: 26456201205

*1771-03856-08-43



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.
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Chanita M. Crabbe
Goodstone Drive
Raleigh, NC 27616



9590 9402 3306 7196 1881 09

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) | |

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



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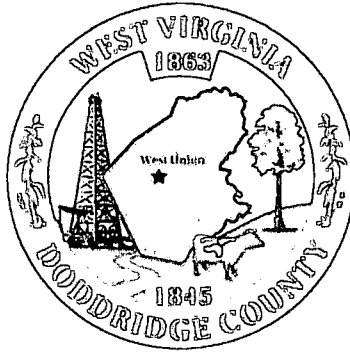
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George Eidel, CFM, OEM Director/Floodplain Manager



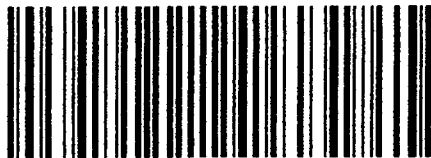
Doddridge County Floodplain Permits

(Week of November 6, 2017)

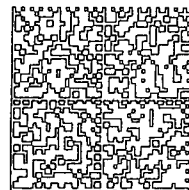
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7015 3430 0001 1569 6128



HASLER

\$006.59⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

Marshall B. & Judith A. Nestor, Jr. (SURV)
1 First American Way
Westlake, TX 76262

NIXIE 773 CE 1 7211/20/17

RETURN TO SENDER
NO SUCH STREET
UNABLE TO FORWARD

1 9368866618186438

NSS
70153430000115696128

MANUAL PROC REQ *1793-83362-20-24



POSTNET

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. HOLD AT ENVELOPE FLAP.

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.

Marshall B. & Judith A. Nestor, Jr. (SURV)
1 First American Way
Westlake, TX 76262



9590 9402 3306 7196 1882 91

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
X

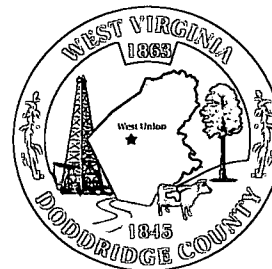
B. Received by (Printed Name)

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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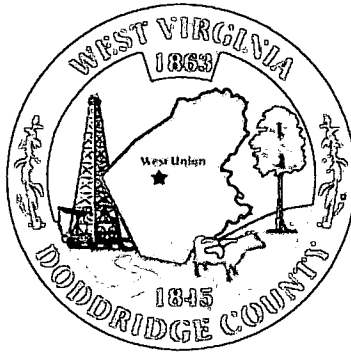
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Respectfully yours,

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George Eidel, CFM, OEM Director/Floodplain Manager



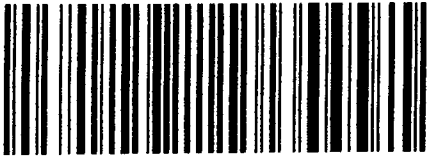
Doddridge County Floodplain Permits

(Week of November 6, 2017)

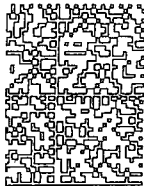
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 8083



HASLER

\$006.59⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

WTC

Crestwood Marcellus Midstream, LLC
801 Cherry Street
Fort Worth, TX 76102

NIXIE 750 DE 1 0011/28/17

RETURN TO SENDER
NOT DELIVERABLE AS ADDRESSED
UNABLE TO FORWARD

701028000100
26456V1012

BC: 26456281285 #1771-03020-02-13
[Postnet barcode]

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.

**Crestwood Marcellus Midstream, LLC
801 Cherry Street
Fort Worth, TX 76102**



9590 9402 3306 7196 1883 45

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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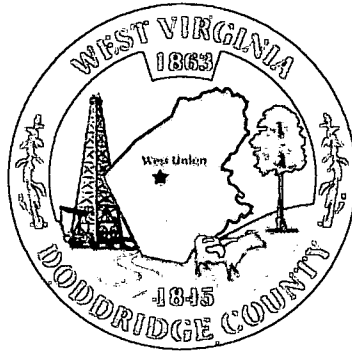
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Doddridge County Floodplain Permits

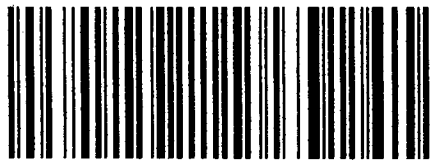
(Week of November 6, 2017)

Please take notice that on the 24th day of **October, 2017**, **Dominion Energy** filed an application for a Floodplain Permit (**#17-491**) to develop land located at or about **Doddridge County** (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 **November 27, 2017** (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 Supply Header Pipeline Project a 30 inch pipeline, roughly 26miles through Doddridge County** (see attached list of crossings).

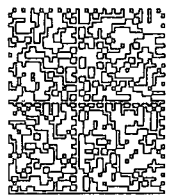
CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456

ASW



7017 1450 0001 5871 7901



HASLER

\$006.59⁰⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

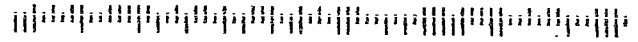
Richard & Chantel Campbell (SURV)
2550 West Field
Elgin, IL 60123

NIXIE 600 DE 1 0011/16/17

RETURN TO SENDER
NO SUCH NUMBER
UNABLE TO FORWARD

80124878009901
26456>2012

BC: 26456201205 *1771-03847-08-43



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.

Richard & Ghantel Campbell (SURV)
2550 West Field
Elgin, IL 60123



9590 9402 3306 7196 1885 36

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

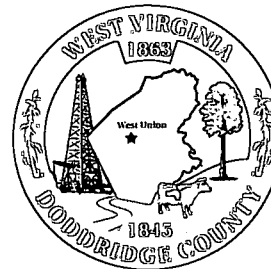
C. Date of Delivery

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,

November 1, 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.

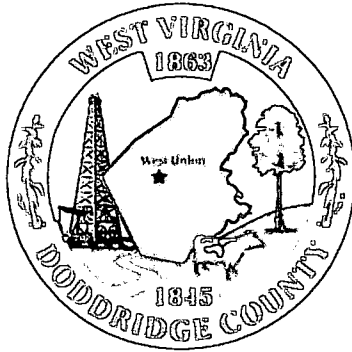
No action is required of you. This letter is simply to inform you of the proposed development.

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', written in a cursive style.

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of November 6, 2017)

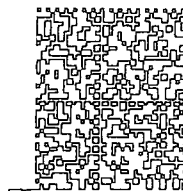
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 8076



HASLER

\$006.59⁰

11/03/2017 ZIP 26456
012E14643162

US POSTAGE

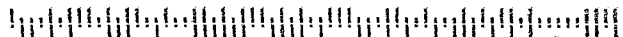
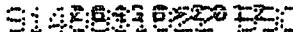
Thomas & Kimberly R. Smith (SURV)
P.O. Box 1022, SV-24
Van Nuys, CA 91410

NIXIE 911 DE 1 7211/16/17

RETURN TO SENDER
UNDELIVERABLE AS ADDRESSED
UNABLE TO FORWARD

.. 9303604622053545

BC: 26456201205 *2052-01859-16-46



POSTNET

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS TO BE AFFIXED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

Thomas & Kimberly R. Smith (SURV)
P.O. Box 1022, SV-24
Van Nuys, CA 91410

2. Article Number

(Transfer from sender 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

Certified Mail®

Priority Mail Express™

Registered

Return Receipt for Merchandise

Insured Mail

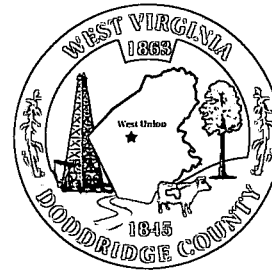
Collect on Delivery

4. Restricted Delivery? (Extra Fee)

Yes

Return Receipt

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street, Suite 3
304-873-1343
doddridgecountyfpm@gmail.com



Dear Sir or Ma'am,

November 1, 2017

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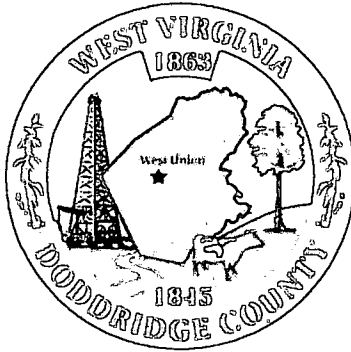
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Respectfully yours,

A handwritten signature in black ink, appearing to read "George Eidel".

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of November 6, 2017)

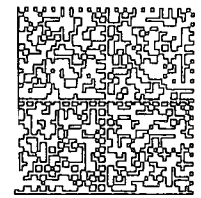
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CERTIFIED MAIL

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street, Suite 3
West Union, WV 26456



7017 1450 0001 5871 6614



HASLER

\$006.59⁰⁰

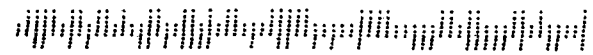
11/03/2017 ZIP 26456
012E14643162

US POSTAGE

REASON CHECKED
 Moved, Left No Address
 Unable To Forward
 Attempted - Not Known
 Unclaimed
 No Such Street
 Insufficient Address
 Refused
 No Such Number

Carl Wiles (LIFE)
9007 WV Rt. 23
Center Point, WV 26339

2833938001 HC67



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS FOR A BOTTLED

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:

Carl Wiles (LIFE)
9007 WV Rt. 23
Center Point, WV 26339



9590 9402 2859 7069 5375 60

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

PS Form 3811, July 2015 PSN 7530-02-000-9053

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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November 1, 2017

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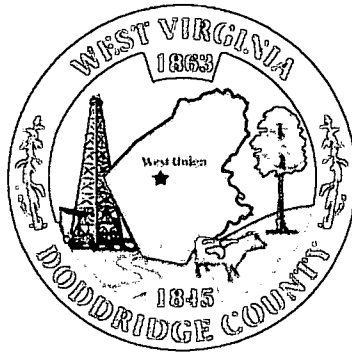
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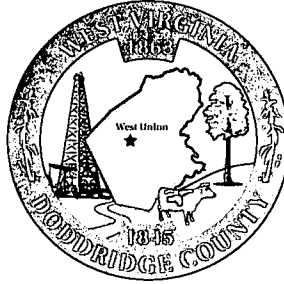
George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of November 6, 2017)

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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 #: 17-491

Date Approved: March 15, 2018

Expires: March 15, 2019

Issued to: Dominion Energy Transmission, Inc.

POC: Leslie Hartz

Company Address: 707 E. Main Street, Richmond, VA. 23219

Project Address: See Attached Sheet

Firm: See Attached Sheet

Lat/Long: See Attached Sheet

Purpose of development: Supply Header pipeline Project

Issued by: George C. Eidel, Doddridge County FPM (or designee)

Date: 3/15/2018

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



Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development of a 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: #17-491

Date Approved: November 27, 2017 **Expires: November 27, 2018**

Issued to: Dominion Energy Transmission, Inc. **POC: Leslie Hartz**

Company Address: 707 E. Main Street Richmond, VA 23219

Project Address: See Attached on Reverse Side of Permit

Firm: See Attached

Lat/Long: See Attached

Purpose of Development: Supply Header Pipeline Project

Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)

Date: November 27, 2017

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

Permit Number	Crossing Name	Coordinates	FIRM Panel Number
17-491 (a)	McElroy Creek	39.39296111 N; -8063759722W	54017C0045C
17-491 (b)	Long Run	39.27676667 N; -80.63356667W	54017C0145C
17-491 (c)	Buffalo Calf Fork	39.25943333 N; -80.61926111W	54017C0165C
17-491 (d)	Greenbrier Creek	39.24445556 N; -80.61194444 W	54017C0255C
17-491 (e)	Buckeye Creek	39.23006389 N; -80.60833333 W	54017C0255C
17-491 (f)	Meathouse Fork	39.19233333 N; -80.58305556 W	54017C0045C

Dominion Energy – Atlantic Coast Pipeline Supply Header Pipeline Project (SHP)

Floodplain Permit Number

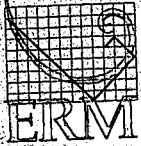
17-491

COPY

COPY

COPY COPY

THIS DOCUMENT CONTAINS HEAT SENSITIVE INK. TOUCH OR PRESS RED LOGO NEAR SIGNATURE LINE. RED IMAGE DISAPPEARS WITH HEAT.



Environmental Resources Management, Inc.
75 Valley Stream Parkway, Suite 200
Malvern, PA 19355-1406



093614

11-24
1210

DATE: 29-September-2017

NO. 093614

COPY

PAY

ONE THOUSAND THREE HUNDRED TWENTY-FIVE AND XX / 100 DOLLARS

\$ *****1,325.00

TO THE
ORDER
OF

County of Doddridge
105 Court Street Suite 3
West Union, WV 26456-2095

COPY

Paul A. Wells
AUTHORIZED SIGNATURE

ORIGINAL CHECK IS PRINTED ON CHEMICAL REACTIVE PAPER WHICH CONTAINS A WATERMARK

⑈093614⑈ ⑆121000248⑆ 2000017966889⑈

COPY

COPY

FP # 17-491

Doddridge County, West Virginia

RECEIPT NO: 9896

DATE: 2017/10/30

FROM: ENVIRONMENTAL RESOURCES AMOUNT: \$ 1,325.00

ONE THOUSAND THREE HUNDRED TWENTY FIVE DOLLARS AND 00 CENTS

FOR: #17-491 FLOOD PLAIN

0000093614 FP-BUILDING PERMITS

020-318

TOTAL: \$1,325.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

FLOODPLAIN PERMIT #17-491

Dominion Energy/Supply Header Pipeline

7017 1450 0001 5871 8052

7017 1450 0001 5871 8090

7017 1450 0001 5871 8069

7017 1450 0001 5871 8106

7017 1450 0001 5871 8076

7017 1450 0001 5871 8113

7017 1450 0001 5871 8083

7017 1450 0001 5871 7956

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	10/24/17	
US ARMY CORP. ENGINEERS (USACE)	3/15/18	State DEPT OF ENVIRONMENTAL AFFAIRS PERMITS
US FISH & WILDLIFE SERVICES (USFWS)	3/15/18	
WV DEPT. NATURAL RESOURCES (WVDNR)	3/15/18	
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)	3/15/18	
STATE HISTORIC & PRESERVATION OFFICE (SHPO)	3/15/18	
OFFICE of LAND & STREAM (OLS)	3/15/18	
DATE OF COMMISSION READING	11/7/2017	
DATE AVAILABLE TO BE GRANTED	11/27/2017	
PERMIT GRANTED	3/15/18	
COMPLETE	3/15/18	

7017 1450 0001 5871 7963

7017 1450 0001 5871 7994

7017 1450 0001 5871 7970

7017 1450 0001 5871 8007

7017 1450 0001 5871 7987

7017 1450 0001 5871 8014

7017 1450 0001 5871 8021

7017 1450 0001 5871 8045

7017 1450 0001 5871 7864

7017 1450 0001 5871 7888

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7017 1450 0001 5871 7673

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7017 1450 0001 5871 7703

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7017 1450 0001 5871 6539

7017 1450 0001 5871 6553

7017 1450 0001 5871 6577

7017 0660 0000 2275 7345

7017 0660 0000 2275 7369

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7017 1450 0001 5871 6454

7017 1450 0001 5871 6478

7017 0660 0000 2275 7246

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7017 1450 0001 5871 7918

7017 1450 0001 5871 7932

7017 1450 0001 5871 7758

7017 1450 0001 5871 7772

7017 1450 0001 5871 7796

7017 1450 0001 5871 7819

7017 1450 0001 5871 7833

7017 1450 0001 5871 7659

7017 1450 0001 5871 7666

7017 1450 0001 5871 7697

7017 1450 0001 5871 7710

7017 1450 0001 5871 7734

7017 1450 0001 5871 6584

7017 1450 0001 5871 6607

7017 1450 0001 5871 6621

7017 1450 0001 5871 6645

7017 1450 0001 5871 7635

7017 1450 0001 5871 6485

7017 1450 0001 5871 6508

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7017 1450 0001 5871 6546

7017 1450 0001 5871 6560

7017 0660 0000 2275 7338

7017 0660 0000 2275 7352

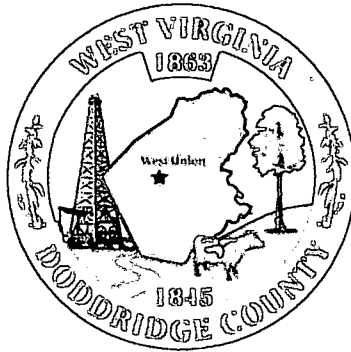
7017 1450 0001 5871 6423

7017 1450 0001 5871 6447

7017 1450 0001 5871 6461

7015 3430 0001 1569 6128

7017 0660 0000 2275 7253



Doddridge County Floodplain Permits

(Week of November 6, 2017)

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**Dominion
Energy®**

October 17, 2017

Mr. George Eidel
Floodplain Manager
Doddridge County Office of Emergency Management
108 East Court Street, Suite 1
West Union, WV 26456

**RE: Dominion Energy Transmission Inc. (Dominion Energy) Supply Header Project (SHP),
Doddridge County Floodplain Development Permit Application**

Dear Mr. Eidel:

Please accept Dominion Energy's Floodplain Permit application for review for approximately 1.16 miles of Federal Emergency Management Agency (FEMA) identified floodplain crossings in Doddridge County with a 30-inch diameter underground interstate natural gas pipeline and access roads. These crossings will involve the installation of 0.54 miles of pipeline, and 0.62 miles of access roads. Additionally, there will be two temporary contractor yards with 2.5 acres located within floodplains.

On October 13, 2017, Dominion Energy received a Certificate of Public Convenience and Necessity (Certificate) from the Federal Energy Regulatory Commission (FERC) under Section 7(c) of the Natural Gas Act (NGA) to construct, own, operate, and maintain a proposed 37.5-mile natural gas pipeline in West Virginia in order to provide safe, dependable natural gas service for current and future customers in the Mid-Atlantic. The SHP will loop (add additional capacity and be connected to) and generally be located adjacent to an existing Dominion Energy natural gas pipeline (Line No. TL-360).

The SHP is being developed in conjunction with the Atlantic Coast Pipeline (ACP). Dominion Energy will be a Foundation Shipper in the SHP, and will utilize the SHP capacity to allow its shippers access to natural gas supplies from various Dominion Energy receipt points for further delivery to points along the ACP. The ACP is a proposed natural gas transmission system that would serve the growing energy needs in the Mid-Atlantic including West Virginia, Virginia, and North Carolina. The natural gas transported by the SHP and ACP will be used to generate electricity, heat homes, run local businesses and increase the reliability and security of natural gas supplies in Virginia, West Virginia and North Carolina. The SHP will cross through approximately 1.16 miles of floodplains in Doddridge County.

Interstate natural gas companies such as Dominion Energy are regulated by the FERC. Under Section 7 of the Natural Gas Act, FERC determines whether interstate natural gas transportation facilities are in the public convenience and necessity and, if so, grants a Certificate to construct and operate the facilities.

FERC is an independent regulatory agency and therefore conducts a complete independent review of project proposals, including an environmental review of the proposed facilities under the National Environmental Policy Act of 1969, 42 U.S. C. §4321 *et seq.* (NEPA). FERC bases its decision on technical competence, financing, rates, market demand, gas supply, environmental impact, long-term

feasibility, and other issues concerning a proposed project.¹ On September 18, 2015, Dominion Energy and Atlantic Coast Pipeline, LLC (Atlantic) filed an Application with FERC for a Certificate for the SHP and ACP, to which FERC issued a Notice of Application on October 2, 2015.² A proposed route for the SHP across Doddridge County was preliminarily selected by the FERC pursuant to the Final Environmental Impact Statement (FEIS) issued on July 21, 2017. On October 13, 2017 Atlantic received its Certificate from FERC.

Also, during the FERC Application phase, applicants desire, and are encouraged, to cooperate with state and local governments to address any state or local aspects of a proposed project under FERC review.³ Consistent with this approach and through consultations with Doddridge County officials, Dominion Energy understands that it is its responsibility to submit a Floodplain Permit application.

To address these floodplain crossings, Dominion Energy is requesting your review and approval of the items attached which are made part of this application:

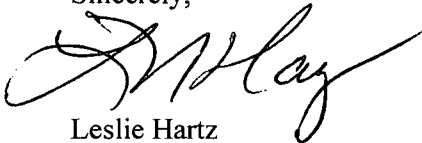
- Attachment 1, Completed Floodplain Development Permit Application
- Attachment 2, Statement of Justification
- Attachment 3, Site Plan and No-Rise Certificates
- Attachment 4, Adjacent Property Owner Information

In addition to the attachments, you will also find a check for the application fee and the "Deposit for Expenses" made payable to the County of Doddridge. Dominion Energy also understands that it is responsible for payment to Doddridge County for any expenses and costs for services necessary for review and/or inspection of the permit application and the attachments for the Project.

Subject to the receipt of required approvals, Project construction in Doddridge County is scheduled for November 2017 through November 2018. Once pipeline construction is complete, the original topographic conditions and contours will be restored. In addition, temporary access roads and temporary contractor yards will be returned to their pre-existing conditions or to conditions in accordance with landowner agreements.

Dominion Energy looks forward to coordinating with you on this Project. Should you have any questions or concerns, please contact Robert Hare at 804-314-2832 or email at robert.p.hare@dominionenergy.com.

Sincerely,



Leslie Hartz
Vice President, Pipeline Construction
Dominion Energy Transmission Inc.

cc: Robert Hare, Dominion Energy Services, Inc.

1 The FERC process can be followed through FERC's website at www.ferc.gov. You can query using the FERC docket numbers for the ACP project, CP15-554-000 and CP15-554-001.

2 On March 14, 2016, Atlantic filed an Amendment to the Application with FERC to incorporate route changes that would minimize the impact of the ACP on affected landowners and communities and on the environment. On March 22, 2016, FERC issued its Notice of Amendment to the Application.

3 A typical FERC Order issuing a Certificate contains a statement similar to the following: "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 operations of the facilities approved by this Commission."



Permit#	<u>17-491</u>
Project Name:	<u>Supply Header Pipeline</u>
Permittees Name:	<u>Dominion Energy</u>

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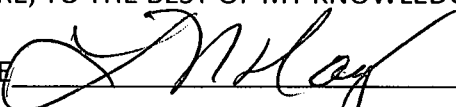
Doddridge County, WV

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 10/17/17

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: Dominion Energy Transmission, Inc.		
Corporate Mailing Address: 707 East Main Street		
City: Richmond	State: VA	Zip: 23219
Corporate Point of Contact (POC): Leslie Hartz		
Corporate POC Title: Vice President, Pipeline Construction		
Corporate POC Primary Phone: 804-771-4468		
Corporate POC Primary Email: leslie.hartz@dominionenergy.com		
Corporate FEIN:	Corporate DUNS:	
Corporate Website: DominionEnergy.com		
Local Mailing Address: N/A		
City:	State:	Zip:
Local Project Manager (PM): N/A		
Local PM Primary Phone:		
Local PM Secondary Phone:		
Local PM Primary Email:		
Person Filing Application: Robert P. Hare		
Applicant Title: Senior Environmental Manager, Dominion Energy Services, Inc.		
Applicant Primary Phone: 804-314-2832		
Applicant Secondary Phone:		
Applicant Primary Email: robert.p.hare@dominionenergy.com		

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 checked="" 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 checked="" 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 Site Plan and No-Rise Certificates		
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: See attached Site Plan and No-Rise Certificates			

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): Dominion Energy Transmission Inc., Leslie Hartz, Vice President of Pipeline Construction. Note: Owner of easements across affected parcels.		
PO Address: 707 E. Main Street		
City: Richmond	State: VA	23219
PO Primary Phone: 804-771-4468		
PO Secondary Phone:		
PO Primary Email: leslie.hartz@dominionenergy.com		

Surface Rights Owner Data:		
Name of Primary Owner (PO): NA		
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): NA		
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: TBD		
C/SC WV License Number:		
C/SC FEIN:	C/SC DUNS:	
Local C/SC Point of Contact (POC):		
Local C/SC POC Title:		
C/SC Mailing Address:		
City:	State:	Zip-Code:
Local C/SC Office Phone:		
Local C/SC POC Phone:		
Local C/SC POC E-Mail:		

Engineer Firm Information:		
Engineer Firm Name:		
Engineer WV License Number:		
Engineer Firm FEIN:	Engineer Firm DUNS:	
Engineer Firm Primary Point of Contact (POC): Colin Olness, PE		
Engineer Firm Primary POC Title: Atlantic Coast Pipeline - Construction		
Engineer Firm Mailing Address: 99 Edmiston Way		
City: Buckhannon	State: WV	Zip-Code: 26201
Engineer Firm Office Phone:		
Engineer Firm Primary POC Phone: 304-203-9011		
Engineer Firm Primary POC E-Mail: colin.p.olness@dominionenergy.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): Please see Attachment 4		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): Please See Attachment 4		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): Please See Attachment 4		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): Please See Attachment 4		
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

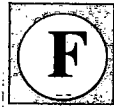
Please read print name, sign and date below:

- 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 or 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 Doddridge County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

Applicant Signature: _____

Date: _____

Applicant Printed Name: Leslie Hartz, Vice President Pipeline Construction



Ms. Beverly Frye
3679 Marlin Ave.
Dayton, OH 45416

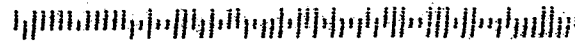
COLUMBUS OH 431

14 NOV 2017 PM 5 L



Doddridge County Office
Emergency & Floodplain Management
105 Court Street, Suite 3
West Union, WV. 26456

Permit
17-491



~~11-14-17~~
Doddridge County Emergency and
Floodplain Management

I received the letter pertaining
to Dominion Floodplain permit
(#17-491). I did not receive
the list of crossings.
Could you please send me
one.

My husband Archie Ross
Frye has been deceased
for many years. The land
and mineral rights are in
my name Beverly A. Frye.
Thank you. Beverly Frye
3679 Marlin Ave.
Dayton Ohio 45416

~~Phonograph of Frye~~

Learn more about the Lakota (Sioux) culture at stjo.org/culture.



Dominion Energy Transmission, Inc.
701 East Cary Street
Richmond, VA 23219

November 13, 2017

Edwin Wriston
Doddridge County
118 East Court Street
West Union, WV 26456

RE: FERC Issues Certificate for Supply Header Project

Dear Edwin Wriston:

On October 13, 2017 Dominion Energy Transmission, Inc. (Dominion Energy) received a *Certificate of Public Convenience and Necessity* from the Federal Energy Regulatory Commission to construct, operate and maintain the Supply Header Project. This certificate is the result of an extensive environmental review and public input process that began in November 2014.

As part of the Supply Header Project, Dominion Energy will construct and operate approximately 37.5 miles of natural gas pipeline, along existing pipeline rights of way, and modify existing compression facilities in West Virginia and Pennsylvania. New pipeline will be primarily constructed along existing pipeline rights of way and will include approximately 3.9 miles of 30-inch-diameter pipeline in Westmoreland County, Pa., and 33.6 miles of 30-inch-diameter pipeline in Harrison, Doddridge, Tyler, and Wetzel counties in West Virginia. The Supply Header Project will allow the transport of natural gas from supply areas in Pennsylvania and West Virginia to the proposed Atlantic Coast Pipeline. Atlantic Coast Pipeline LLC is a company composed of subsidiaries of Dominion Energy, Duke Energy, Piedmont Natural Gas, and Southern Company Gas— which will be constructing the Atlantic Coast Pipeline in West Virginia, Virginia, and North Carolina.

Dominion Energy will begin work related to the Supply Header Project this fall. The first phase will begin in with tree felling within the area of construction disturbance. Landowners will be notified prior to tree felling activities on their property. Clearing activities will continue as long as weather permits. Pipeline construction activities for these spreads will begin in the spring of 2018. Compressor station upgrades will begin in the winter of 2018 and will continue to the fall of 2019. Clearing activities for the 2019 pipeline spreads will begin in fall/winter 2018 and construction for these spreads will begin in the spring of 2019.

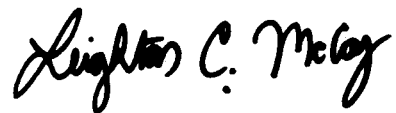
Enclosed are a Project Overview fact sheet and map. Dominion Energy will host a series of Construction Open Houses and the dates, times and locations of those events will be published as details are finalized.

For additional information

- Visit the Supply Header Project Website at atlanticcoastpipeline.com/permitting-process/supply-header-project.aspx
- Call our toll-free Landowner Information number at 888-895-8716
- Or, Email the Project Team at SupplyHeader@dominionenergy.com

Safety is our number one priority on this and all projects. The Supply Header Project will be constructed, operated and maintained in accordance with the highest safety standards. We look forward to continuing to work with you and all other stakeholders as construction begins on this project.

Sincerely,

A handwritten signature in black ink that reads "Leighton C. McCoy". The signature is written in a cursive, flowing style.

Leighton C. McCoy, Authorized Representative
Dominion Energy Transmission, Inc.

Enclosures

Supply Header Project

PROJECT OVERVIEW



Dominion Energy Transmission, Inc.'s (Dominion Energy) Supply Header Project includes approximately 37.5 miles of natural gas pipeline, along existing pipeline rights of way, and modifications to existing compression facilities in West Virginia and Pennsylvania. The Supply Header Project will allow the transport of natural gas from supply areas in Pennsylvania and West Virginia to various customers, including Atlantic Coast Pipeline, LLC — a company composed of subsidiaries of Dominion Energy, Duke Energy, Piedmont Natural Gas, and Southern Company Gas.

The new pipeline will include approximately 3.9 miles of 30-inch-diameter pipeline in Westmoreland County, Pa., and 33.6 miles of 30-inch-diameter pipeline in Harrison, Doddridge, Tyler, and Wetzel counties in West Virginia.

Modifications and facility upgrades will be made at Dominion Energy's existing compressor stations in Westmoreland and Greene counties in Pennsylvania, and Marshall and Wetzel counties in West Virginia. These modifications will result in approximately 69,200 horsepower of additional compression.

Due to the modifications and additions to the existing Mockingbird Hill Compressor Station, the two existing compressor units at the Hastings Compressor Station will be replaced with one new unit with increased efficiency and lower emissions, which will be installed to maintain existing gathering operations.



JB Tonkin Compressor Station
Westmoreland County, Pa.

Project Details

Length: Approximately 37.5 miles of natural gas pipeline

- 3.9 miles of pipeline in Pennsylvania
- 33.6 miles of pipe in West Virginia

Pipe Diameter: 30 inch in Pa. and W. Va.

Capacity: 1.5 million dekatherms per day

Compressor Station and Facility Upgrades:

Pennsylvania

- JB Tonkin Station, Westmoreland County
- Crayne Station, Greene County

West Virginia

- Mockingbird Hill Station, Wetzel County
- Hastings Station, Wetzel County
- Burch Ridge Station, Marshall County

Project Contact Vehicles

Contact the Supply Header Project team:

- Visit the Project website at:
DominionEnergy.com/supplyheader
- Call the landowner toll-free number:
888-895-8716
- Call the general inquiry toll-free number:
844-215-1819
- Email:
SupplyHeader@DominionEnergy.com

Schedule

PROJECT ACTIVITY	TIMING
FERC Certificate	October 2017
Construction	2017 – 2019
Construction Open Houses	January 2018
In-service	Late 2019

CONTINUED

Community and Economic Benefits

The Supply Header Project will increase our investment in the region.

- To support the Supply Header Project, Dominion Energy will invest \$500 million in capital expenditures.
- Construction of the Supply Header Project is estimated to support 1,035 construction jobs in the region.
- Construction-related activities will put \$132 million back into the local economy.
- Ongoing operation of the pipeline and facilities is estimated to support 11 jobs.

By investing in new facilities and operations, Dominion Energy provides 1,200 stable, long-term jobs throughout West Virginia and Southwest Pennsylvania and continues to help employment in the region reach new heights, investing an annual payroll of \$200 million into the regional economy.

Over the past five years, we've invested nearly \$1.5 billion in new projects for West Virginia and Southwest Pennsylvania.

In addition to our recently constructed regional headquarters built in Bridgeport, W.Va., we plan to continue expanding our other facilities and operations including the new Dominion Energy Western Area headquarters building in Westmoreland County, Pa., which is currently under construction.

As Dominion Energy employees, we live and work in West Virginia and Pennsylvania, and we're proud to be able to contribute to the community through volunteer hours and donations.

Safety

Dominion Energy is an industry leader in pipeline safety and related infrastructure integrity programs. All construction activities (pipe handling, loading, unloading, install and testing) will be monitored and inspected. Our commitment to safety and environmental protection extends through every phase of the project — from the first days of construction through the final days of restoration.

Construction

Dominion Energy is committed to best-in-class standards for construction and operation of the Supply Header Project. The best-in-class design goes above and beyond regulatory requirements to minimize environmental impact while providing safe and reliable construction and operations.

Ace Pipeline, Inc. (Ace) was selected as the most qualified contractor for the SHP construction project after an extensive, competitive bidding process. Ace's commitment to safe construction practices and best-in-class standards align with Dominion Energy's expectations for this project. Based in West Virginia, Ace specializes in pipeline construction in the Appalachian Region. With several key personnel having more than 30 years of experience working in the Appalachian Mountains, that experience and unmatched work ethic allows them to complete work efficiently, while keeping safety and environment as a top priority.

Commitment to Landowners

The people and local organizations that own land along the Supply Header Project route are our neighbors and fellow community members.

As such, we have a deep respect for all landowners along the route. We understand how important and valuable their land is and strive to minimize impacts related to pipeline construction, operation and maintenance.

We fully support and adhere to the Interstate Natural Gas Association of America (INGAA) commitment to landowners and continually seek to:

- Develop positive, long lasting relationship built on mutual respect and trust.
- Provide accurate and timely information about projects and related processes.
- Listen and strive to understand in an honest, fair and reasonable fashion.
- Ensure our employees and representatives act in accordance with our commitments.
- Train our representatives to interact positively and productively with all stakeholders.



- SHP Mainline
- ▲ SHP Compressor Station
- ◆ SHP M&R Station
- ACP Mainline



Supply Header Project Project Overview Map





Dominion Energy Transmission, Inc.
701 East Cary Street
Richmond, VA 23219

November 6, 2017

Mr. George Eidel
Office of Emergency Management
Doddridge County
118 East Court Street Room 102
West Union, WV 26456

RE: FERC Issues Certificate for Supply Header Project

Dear Mr. Eidel :

On October 13, 2017 Dominion Energy Transmission, Inc. (Dominion Energy) received a *Certificate of Public Convenience and Necessity* from the Federal Energy Regulatory Commission to construct, operate and maintain the Supply Header Project. This certificate is the result of an extensive environmental review and public input process that began in November 2014.

As part of the Supply Header Project, Dominion Energy will construct and operate approximately 37.5 miles of natural gas pipeline, along existing pipeline rights of way, and modify existing compression facilities in West Virginia and Pennsylvania. New pipeline will be primarily constructed along existing pipeline rights of way and will include approximately 3.9 miles of 30-inch-diameter pipeline in Westmoreland County, Pa., and 33.6 miles of 30-inch-diameter pipeline in Harrison, Doddridge, Tyler, and Wetzel counties in West Virginia. The Supply Header Project will allow the transport of natural gas from supply areas in Pennsylvania and West Virginia to the proposed Atlantic Coast Pipeline. Atlantic Coast Pipeline LLC is a company composed of subsidiaries of Dominion Energy, Duke Energy, Piedmont Natural Gas, and Southern Company Gas— which will be constructing the Atlantic Coast Pipeline in West Virginia, Virginia, and North Carolina.

Dominion Energy will begin work related to the Supply Header Project this fall. The first phase will begin with tree felling within the area of construction disturbance. Landowners will be notified prior to tree felling activities on their property. Clearing activities will continue as long as weather permits. Pipeline construction activities for these spreads will begin in the spring of 2018. Compressor station upgrades will begin in the winter of 2018 and will continue to the fall of 2019. Clearing activities for the 2019 pipeline spreads will begin in fall/winter 2018 and construction for these spreads will begin in the spring of 2019.

Enclosed are a Project Overview fact sheet and map as well as a copy of Dominion Energy's Landowner Complaint Resolution Procedures. These procedures provide an overview of the process for reporting and resolving any issues that may arise during construction of the pipeline across property owned or rented by your constituents.

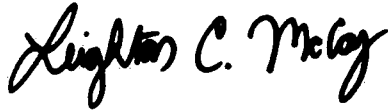
Dominion Energy will host Construction Open Houses and the dates, times, and locations of those events will be published as details are finalized.

For additional information

- Visit the Supply Header Project Website at atlanticcoastpipeline.com/permitting-process/supply-header-project.aspx
- Call our toll-free Landowner Information number at 888-895-8716
- Or, Email the Project Team at SupplyHeader@dominionenergy.com

Safety is our number one priority on this and all projects. The Supply Header Project will be constructed, operated and maintained in accordance with the highest safety standards. We look forward to continuing to work with you and all other stakeholders as construction begins on this project.

Sincerely,

A handwritten signature in black ink that reads "Leighton C. McCoy". The signature is written in a cursive, flowing style.

Leighton C. McCoy, Authorized Representative
Dominion Energy Transmission, Inc.

Enclosures

Supply Header Project

LANDOWNER ENVIRONMENTAL COMPLAINT RESOLUTION



OCTOBER 2017

Introduction

On October 13, 2017, Dominion Energy received a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission (FERC) under Docket Number CP15-555. The Certificate authorizes Dominion Energy to construct, operate, and maintain the Supply Header Project and establishes environmental conditions applicable to construction. Dominion Energy accepted this Certificate on October 16, 2017.

The Supply Header Project will include stream crossings, wetland crossings, and land clearing, as well as land reclamation after construction activities are completed. To minimize environmental impacts, Dominion Energy will implement procedures that include the use of soil erosion and sediment control structures and the use of construction techniques to control soil movement. In addition, Dominion Energy will be using the services of an Environmental Inspector to ensure compliance with any applicable environmental regulations, approvals and/or permits.

Dominion Energy will use the following Environmental Complaint Resolution Procedure to receive and respond to landowner concerns during construction of the Supply Header Project and during restoration of the right-of-way after construction is complete. We invite you to follow the steps below to express environmental concerns during construction and restoration activities.

Landowner Instructions

1. If you have a concern or complaint regarding construction of the Supply Header Project across your property, please contact your local land representative. Your land representative is your first and primary source for initiating complaint resolution. If you do not have your land representative's contact information readily available, please contact the land supervisor listed below. Contact with your local land agent or land supervisor will lead to the quickest response from on-site personnel who are most familiar with the construction and restoration activities.

- Supply Header Project Land Supervisor
Jamie Burton
304-472-0314
Jamie.S.Burton@DominionEnergy.com

Land supervisors are typically available during construction and restoration activities from 7:00 a.m. to 5:00 p.m. Monday through Saturday.

A land representative will attempt to return your call the next business day to acknowledge receipt of your message and address your concern.

2. If your land representative does not provide a timely or satisfactory response, or if contact is necessary outside of business hours, please contact Dominion Energy via phone or email.

- Supply Header Project Toll-Free Landowner Line
888-895-8716
- Supply Header Project Email
SupplyHeader@DominionEnergy.com

Leave a detailed message including the date and time of the call; your name, address and telephone number; and a detailed description of the issue or concern. The Landowner Toll-Free Line and Project Email will be checked regularly and each message received will be documented. An appropriate Project representative will be designated to respond to your issue or concern.

A Project representative will attempt to return your call the next business day to acknowledge receipt of your message.

Dominion Energy's goal is to resolve issues and concerns as quickly as possible. Your land representative will keep you informed of the progress and anticipated schedule for resolution.

3. If you are unsatisfied with the response you received through the above-listed procedures, you may contact FERC via phone or email. FERC's Landowner Helpline staff will informally seek information from you and will attempt to address your concerns. Contact with the FERC Landowner Helpline staff can be made anonymously, and information and documents obtained through them will be treated as non-public information.

- FERC Landowner Helpline
877-337-2237
- FERC Landowner Email
LandownerHelp@ferc.gov

CONTINUED

Following resolution of your complaint, the responsible Project personnel will close out the complaint for the record, noting the date and means of resolution. All complaints received that reach this stage, along with the status of their resolution, will be documented in a status report that will be submitted to FERC.

It is Dominion Energy's intent to construct these facilities in a diligent, prudent and safe manner. It is also Dominion Energy's goal to perform and complete the work without concerns and while minimizing environmental impacts. However, we wish to provide you with this procedure to allow a means for the timely resolution of any problems or concerns that may arise. Thank you for working with us throughout the Project.

Supply Header Project

PROJECT OVERVIEW



Dominion Energy Transmission, Inc.'s (Dominion Energy) Supply Header Project includes approximately 37.5 miles of natural gas pipeline, along existing pipeline rights of way, and modifications to existing compression facilities in West Virginia and Pennsylvania. The Supply Header Project will allow the transport of natural gas from supply areas in Pennsylvania and West Virginia to various customers, including Atlantic Coast Pipeline, LLC — a company composed of subsidiaries of Dominion Energy, Duke Energy, Piedmont Natural Gas, and Southern Company Gas.

The new pipeline will include approximately 3.9 miles of 30-inch-diameter pipeline in Westmoreland County, Pa., and 33.6 miles of 30-inch-diameter pipeline in Harrison, Doddridge, Tyler, and Wetzel counties in West Virginia.

Modifications and facility upgrades will be made at Dominion Energy's existing compressor stations in Westmoreland and Greene counties in Pennsylvania, and Marshall and Wetzel counties in West Virginia. These modifications will result in approximately 69,200 horsepower of additional compression.

Due to the modifications and additions to the existing Mockingbird Hill Compressor Station, the two existing compressor units at the Hastings Compressor Station will be replaced with one new unit with increased efficiency and lower emissions, which will be installed to maintain existing gathering operations.



Project Contact Vehicles

Contact the Supply Header Project team:

- Visit the Project website at:
DominionEnergy.com/supplyheader
- Call the landowner toll-free number:
888-895-8716
- Call the general inquiry toll-free number:
844-215-1819
- Email:
SupplyHeader@DominionEnergy.com

Project Details

Length: Approximately 37.5 miles of natural gas pipeline

- 3.9 miles of pipeline in Pennsylvania
- 33.6 miles of pipe in West Virginia

Pipe Diameter: 30 inch in Pa. and W. Va.

Capacity: 1.5 million dekatherms per day

Compressor Station and Facility Upgrades:

Pennsylvania

- JB Tonkin Station, Westmoreland County
- Crayne Station, Greene County

West Virginia

- Mockingbird Hill Station, Wetzel County
- Hastings Station, Wetzel County
- Burch Ridge Station, Marshall County

Schedule

PROJECT ACTIVITY	TIMING
FERC Certificate	October 2017
Construction	2017 – 2019
Construction Open Houses	January 2018
In-service	Late 2019

Community and Economic Benefits

The Supply Header Project will increase our investment in the region.

- To support the Supply Header Project, Dominion Energy will invest \$500 million in capital expenditures.
- Construction of the Supply Header Project is estimated to support 1,035 construction jobs in the region.
- Construction-related activities will put \$132 million back into the local economy.
- Ongoing operation of the pipeline and facilities is estimated to support 11 jobs.

By investing in new facilities and operations, Dominion Energy provides 1,200 stable, long-term jobs throughout West Virginia and Southwest Pennsylvania and continues to help employment in the region reach new heights, investing an annual payroll of \$200 million into the regional economy.

Over the past five years, we've invested nearly \$1.5 billion in new projects for West Virginia and Southwest Pennsylvania.

In addition to our recently constructed regional headquarters built in Bridgeport, W.Va., we plan to continue expanding our other facilities and operations including the new Dominion Energy Western Area headquarters building in Westmoreland County, Pa., which is currently under construction.

As Dominion Energy employees, we live and work in West Virginia and Pennsylvania, and we're proud to be able to contribute to the community through volunteer hours and donations.

Safety

Dominion Energy is an industry leader in pipeline safety and related infrastructure integrity programs. All construction activities (pipe handling, loading, unloading, install and testing) will be monitored and inspected. Our commitment to safety and environmental protection extends through every phase of the project — from the first days of construction through the final days of restoration.

Construction

Dominion Energy is committed to best-in-class standards for construction and operation of the Supply Header Project. The best-in-class design goes above and beyond regulatory requirements to minimize environmental impact while providing safe and reliable construction and operations.

Ace Pipeline, Inc. (Ace) was selected as the most qualified contractor for the SHP construction project after an extensive, competitive bidding process. Ace's commitment to safe construction practices and best-in-class standards align with Dominion Energy's expectations for this project. Based in West Virginia, Ace specializes in pipeline construction in the Appalachian Region. With several key personnel having more than 30 years of experience working in the Appalachian Mountains, that experience and unmatched work ethic allows them to complete work efficiently, while keeping safety and environment as a top priority.

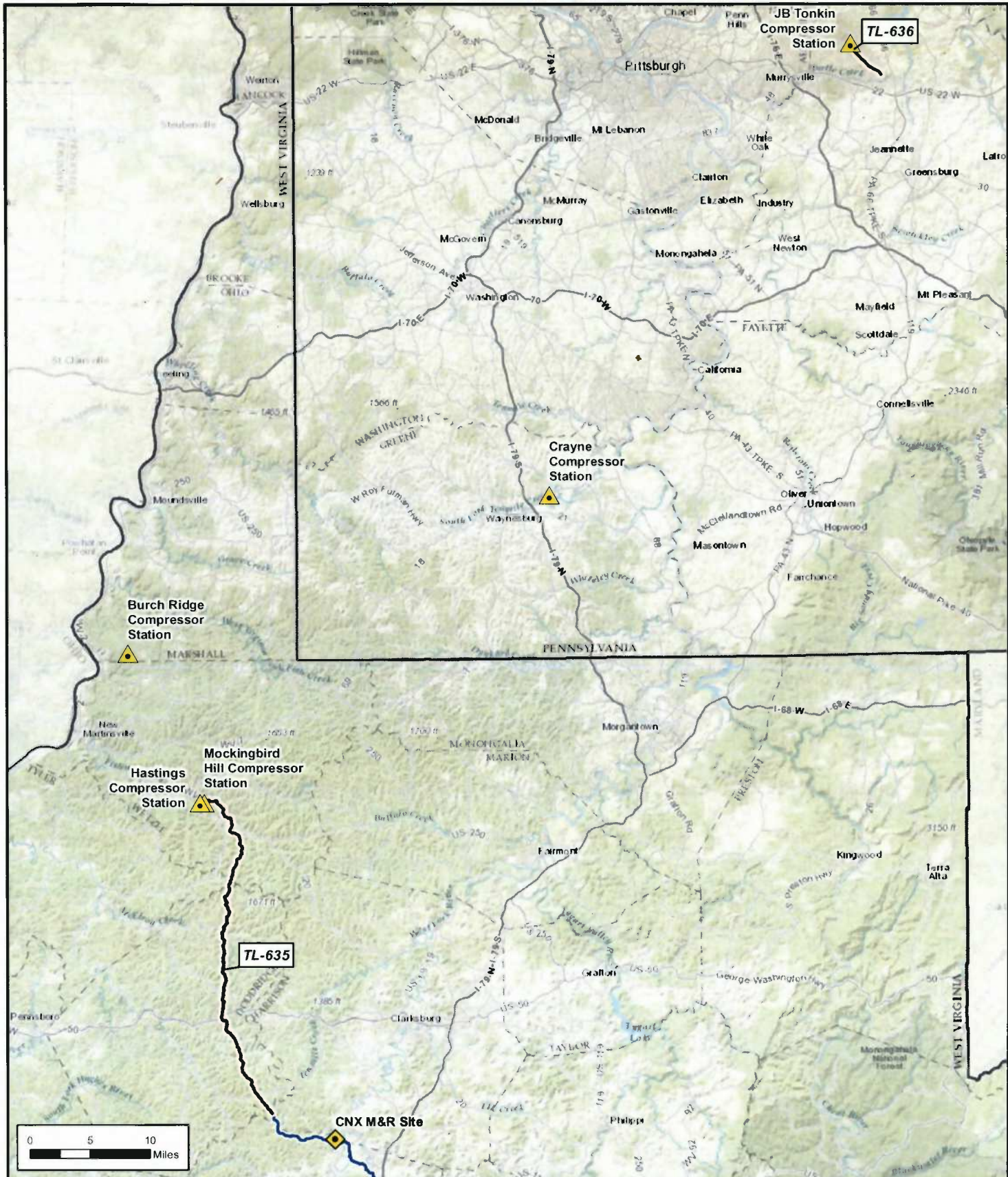
Commitment to Landowners

The people and local organizations that own land along the Supply Header Project route are our neighbors and fellow community members.

As such, we have a deep respect for all landowners along the route. We understand how important and valuable their land is and strive to minimize impacts related to pipeline construction, operation and maintenance.

We fully support and adhere to the Interstate Natural Gas Association of America (INGAA) commitment to landowners and continually seek to:

- Develop positive, long lasting relationship built on mutual respect and trust.
- Provide accurate and timely information about projects and related processes.
- Listen and strive to understand in an honest, fair and reasonable fashion.
- Ensure our employees and representatives act in accordance with our commitments.
- Train our representatives to interact positively and productively with all stakeholders.



- SHP Mainline
- ▲ SHP Compressor Station
- ◆ SHP M&R Station
- ACP Mainline



Supply Header Project Project Overview Map





**Dominion
EnergySM**

Supply Header Project

**Doddridge County, West Virginia
Flood Plain Permit Application**

October 2017

Dominion Energy Transmission, Inc.
SUPPLY HEADER PROJECT
Docket No. CP15-554-000

STATEMENT OF JUSTIFICATION FOR FLOODPLAIN CROSSINGS
DODDRIDGE COUNTY, WEST VIRGINIA

Submitted, October, 2017

I. Introduction

Dominion Energy Transmission Inc. (Dominion Energy) is proposing an approximately 37.5-mile underground pipeline loop referred to as the Supply Header Project (SHP or Project) in conjunction with the Atlantic Coast Pipeline Project (ACP) as part of the plan to provide safe, dependable natural gas service for current and future customers in Virginia, West Virginia and North Carolina. This Statement of Justification provides more information with regard to the Project's proposed construction of a 30-inch diameter underground natural gas pipeline and access roads across 1.16 miles (0.54 miles of pipeline and 0.62 miles of access roads) of floodplains as identified by the Federal Emergency Management Agency (FEMA) within the County. Additionally, there will be two temporary contractor yards with 2.5 acres located within floodplains. Need for the Project and broader requirements for Project approval are described, as well as specific measures to comply with Doddridge County floodplain requirements.

II. Requirements for the Proposed Use

Why the Project is needed:

For the SHP, Dominion Energy proposes to construct and operate approximately 37.5 miles of pipeline loop, and modify existing compression facilities in Pennsylvania and West Virginia. The Project will enable Dominion Energy to provide firm transportation service of up to 1.5 MMDth/d to various customers served by the ACP. Dominion Energy will be a Foundation Shipper in the ACP, and will utilize the SHP capacity to allow its shippers access to natural gas supplies from various Dominion Energy receipt points for further delivery to points along the ACP. By providing its customers access to an affordable and stable source of natural gas, the SHP also satisfies the same purpose and need as the ACP by increasing the reliability and security of natural gas supplies in Virginia, West Virginia, and North Carolina.

The SHP and ACP are a proposed interstate natural gas transmission system that will serve the growing energy needs in the Mid-Atlantic including Virginia, West Virginia and North Carolina. Based on current customer commitments, approximately 76 percent of the natural gas transported by the SHP and ACP will be used as a fuel to generate electricity for industrial, commercial, and residential uses. The remainder of the natural gas will be used directly for residential, industrial, commercial and other uses such as vehicle

fuel. By providing access to low-cost natural gas supplies, the SHP and ACP will increase the reliability and security of natural gas supplies in Virginia, West Virginia and North Carolina, and thereby meet expected demand for natural gas-powered electric generation in those states.

By 2035, natural gas is expected to surpass coal as the most common fuel for electric power generation due to coal-fired plant retirements and low natural gas prices. The U.S. Energy Information Administration (2015) expects renewable generation to grow 2 percent per year from 2013-2040, meeting a part of the demand for power, but more than 60 percent of new generating capacity needed from 2025 to 2040 will be fueled by natural gas.

A study prepared by ICF International (2015) for Atlantic Coast Pipeline, LLC (Atlantic) and Dominion Energy projects that electric power generation in Virginia and North Carolina will increasingly rely on natural gas over the next two decades. Between 2019 and 2038, the study predicts that approximately 9,900 megawatts of electric generating capacity will be retired, while 20,200 megawatts of new generating capacity from natural gas will be built in Virginia and North Carolina. As a result, demand for natural gas for power generation in Virginia and North Carolina is expected to grow 6.3 percent annually between 2014 and 2035, increasing from 1 to 3.7 billion cubic feet per day (bcf/d).¹

In April 2014, Duke Energy and Piedmont issued a request for proposal for incremental pipeline transportation service due to their existing and future natural gas generation requirements, core load growth, and system reliability and supply diversity goals. Specifically, the request for proposal issued by Duke Energy and Piedmont stated that the new infrastructure requested as part of the proposal would support their anticipated needs for natural gas supply and transportation services. Duke Energy's growing reliance on natural gas to meet the State of North Carolina's and Duke Energy's electric generation needs coupled with Piedmont's core load growth and operational requirements supports an investment in new natural gas infrastructure as proposed by Dominion Energy.

In June 2014, Virginia Power Services Energy Corp., Inc. issued a request for proposal for firm transportation service to serve Virginia. In particular, the request for proposal identified a need for additional firm, interstate pipeline capacity. Following the request for proposal processes, Duke Energy, Piedmont, and Virginia Power Services Energy Corp., Inc. each contracted for transportation service on the ACP as did other companies in the region.

The ACP in conjunction with the SHP will provide up to 1.5 MMDth/d of firm natural gas transportation service into Virginia, West Virginia, and North Carolina. Of the 1.5 MMDth/day of the firm transportation capacity created by the ACP and SHP, Atlantic and Dominion Energy currently have commitments with six customers for 1.44 MMDth/d (96 percent). The precedent agreements between Atlantic and these six customers demonstrate the demand for new natural gas supplies, the desire for access to a new supply region, and the need for the SHP and ACP. The remaining unsubscribed capacity on the ACP (4 percent) will be awarded and contracted in accordance with Federal Energy Regulatory Commission (FERC) policies applicable to open-access interstate pipelines and the provisions of applicable natural gas tariffs.

SHP Routing Approval:

On October 13, 2017, Dominion Energy and Atlantic received a Certificate from the FERC under Section 7(c) of the Natural Gas Act (NGA) to construct, own, operate, and maintain the proposed facilities for the SHP and ACP system. FERC issues Certificates for construction and operation of pipelines engaged in interstate natural gas transportation where public need has been demonstrated and a comprehensive

¹ One bcf/d is approximately equivalent to 1 MMDth/d.

review of the environmental impacts has been completed pursuant to the National Environmental Policy Act (NEPA). This provides that alternatives have been evaluated and the alternative with the least environmental impact that can meet the need has been selected.

The FERC licensing process included a NEPA evaluation of multiple alternatives to the proposed route. A proposed route for the SHP across Doddridge County was preliminarily selected by the FERC pursuant to the Final Environmental Impact Statement (FEIS) issued on July 21, 2017. On October 13, 2017 Atlantic received its Certificate from FERC.

Subject to receipt of required approvals, Project construction in Doddridge County is scheduled for November 2017 through November 2018. After construction is complete, the original topographic conditions and contours will be restored. In addition, temporary access roads will be returned to their pre-existing conditions or to conditions in accordance with landowner agreements.

III. Compliance with the Doddridge County Floodplain Ordinance

The Doddridge County Floodplain Ordinance (the "Ordinance") regulates development within identified Floodplain Areas. With the exception of the valve site, the majority of the Project will be developed underground and as such will not be subject to any above-ground development standards. As required by Section 5.2 [Basic Format] of the Ordinance, Dominion Energy has provided the necessary information as part of its Floodplain Development Permit Application (see Attachment 1), as applicable. In addition, pursuant to Section 5.3(B) of the Ordinance, Dominion Energy has provided the following information:

1. Plans showing details of all flood proofing measures (where applicable), prepared by a registered professional engineer, showing the size of the proposed structure and its relation to the lot where it is to be constructed.
2. A determination of elevations of the Base Flood, existing ground, proposed finished ground, lowest floor, and flood proofing limits, certified by a registered professional engineer or licensed professional surveyor, as reflected in the No-Rise Certifications included.
3. A Flood Proofing Certificate, FEMA 81-65, as revised by FEMA, prepared by a registered professional engineer who prepared the plans in (1) above, stating (where applicable), that the Project is designed so that:
 - a. The structure is water tight with walls substantially impermeable to the passage of water from the lowest structural element to two feet above the Base Flood Elevation.
 - b. The structure will withstand the hydrostatic, hydrodynamic, buoyant, impact and other forces resulting from the flood depths, velocities, pressures, and other factors associated with the Base Flood.

Further as required by Section 5.4 [Site Plan Criteria] of the Ordinance, Dominion Energy is submitting a preliminary site plan that includes, as applicable:

1. The name of a registered professional engineer responsible for providing the information required in this section.
2. A map showing the location of the proposed Project with respect to Floodplain Areas,
3. Detailed information giving the location and elevation of proposed roads and utilities, as well as contours at intervals of two (2) or five (5) feet depending upon the slope of the land and accurately identifying the boundaries of the Floodplain Area. A registered professional engineer has certified the site plan.
4. The Base Flood Elevation data and delineated Floodway based on a Flood Insurance Study (FIS), dated July 11, 2017 from FEMA.

Because the Project is primarily underground, the majority of the Specific Requirements set forth in Article VI of the Ordinance do not apply. With regard to Section 6.1(J)(3), SHP's utilities and facilities will be located and constructed to minimize or eliminate flood damage.²

For the approximately 1.16 miles (0.54 miles of pipeline, 0.62 miles of access roads) of floodplain crossing in Doddridge County, Dominion Energy has prepared No-Rise Certificates, which confirm that the proposed 30-inch diameter pipeline and access roads proposed as part of the SHP will not impact flood elevations, floodway elevations or floodway widths in Doddridge County. These No-Rise Certificates have been sealed by professional engineers licensed in the State of West Virginia.

The temporary contractor yards located within 2.5 acres of the floodplain are temporary, and will be removed after construction; therefore, they will not have a permanent impact to the floodplain. Once the contractor yards are removed, the original contours of the floodplain will be restored.

IV. Conclusion

As described in Dominion Energy's application materials, the SHP will be a necessary natural gas transmission system that meets the standards for approval of a Floodplain Permit for floodplain crossings in Doddridge County. The SHP will comply with the provisions of all applicable ordinances, regulations, standards, and conditions. For the reasons set forth herein, Dominion Energy respectfully requests approval of its Floodplain Permit application.

² Dominion Energy has also complied with the application requirements set forth in Section 7.3 of the ordinance (see Attachments 1 and 4, and the materials included herein).

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of West Virginia.

It is to further certify that the attached technical data supports the fact that proposed 30-inch TL-635 Pipeline and associated access roads will not impact the 100-year flood elevations, floodway elevations and floodway widths on McElroy Creek at published sections in the Flood Insurance Rate Map for Doddridge County, WV 54017C0045C, dated October 4, 2011 and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Attached are the following documents that support my findings:

Project Location Map


Proposed Pipeline TL-635 Crossing McElroy Creek 1 of 3

Flood Plain Project Map

Proposed Pipeline TL-635 Crossing McElroy Creek 2 of 3

Plan and Profile

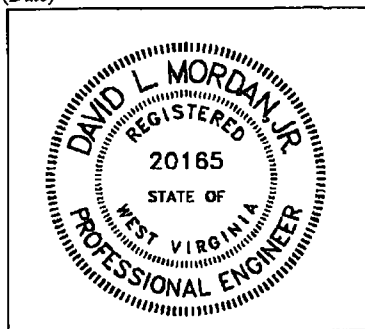
Proposed Pipeline TL-635 Crossing McElroy Creek 3 of 3

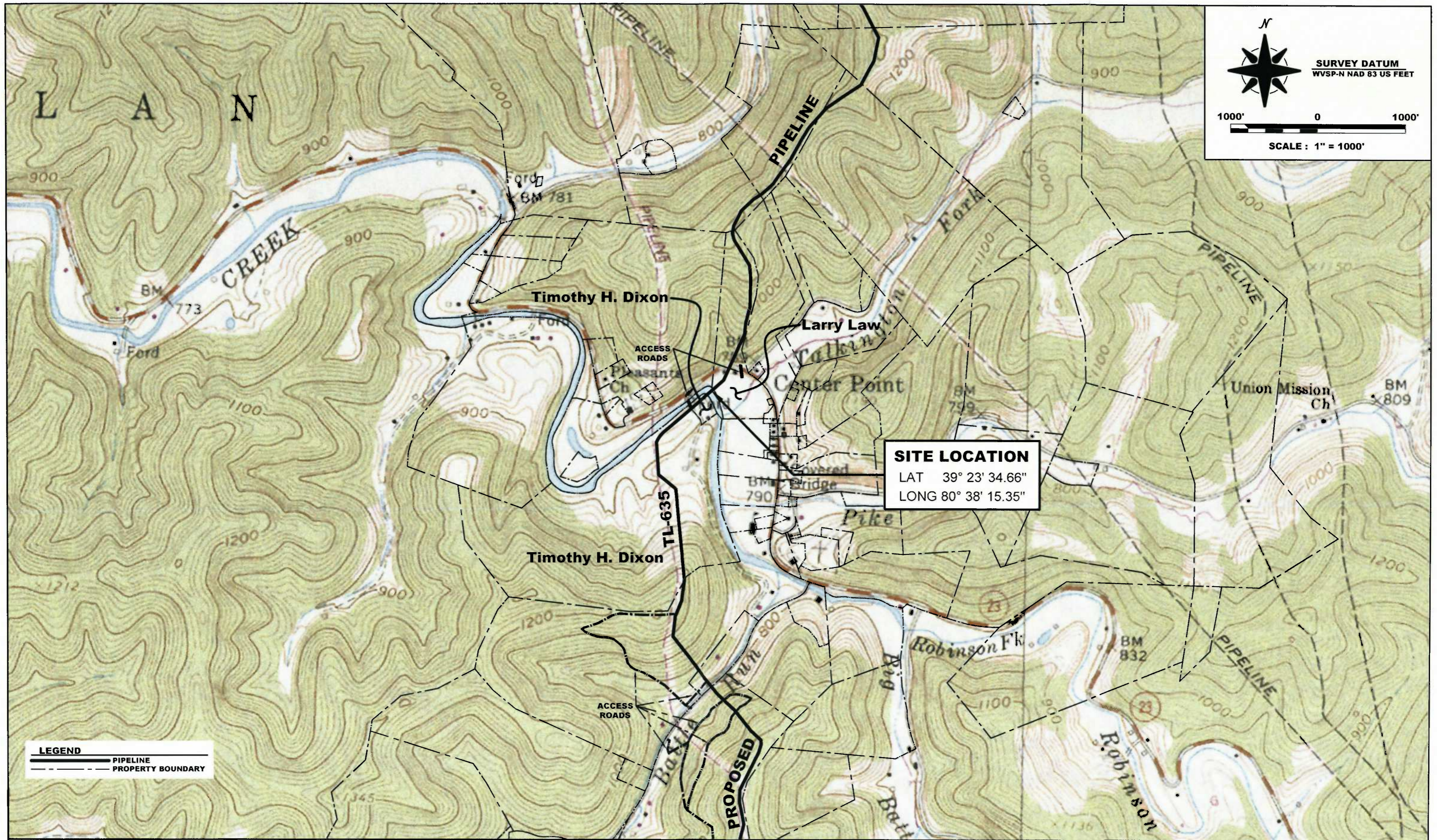

(Signature)

July 11, 2017
(Date)


Owner
(Title)

13 Engineering & Consulting, LLC
1160 Johnson Ave., Suite 101
Bridgeport, WV 26330
Phone 304-848-6730





N



SURVEY DATUM
WVSP-N NAD 83 US FEET

1000' 0 1000'

SCALE: 1" = 1000'

SITE LOCATION
LAT 39° 23' 34.66"
LONG 80° 38' 15.35"

LEGEND

—— PIPELINE
- - - - PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS

REFERENCE
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.
U.S.G.S. TOPOGRAPHIC MAPS
CENTER POINT & FOLSOM, WV 7.5' QUADRANGLES.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.

Engineering and Consulting, LLC
INTEGRITY · DETAIL · INNOVATION

DRAWN: ALC 6/27/17
CHECKED: RVS / DLM 6/27/17
APP. FOR BID:
APP. FOR CONST.:

SCALE: 1" = 1000'




Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PROJECT LOCATION MAP
PROPOSED PIPELINE TL-635 CROSSING MC ELROY CREEK


DISTRICT: McCLELLAN COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO. REV.
DIR./FILE: DOM/FloodplainPermit/Doddridge/MCElroyCk 1 of 3 0

FLOOD PLAIN REFERENCE

THE PROPERTY IS LOCATED IN ZONE AE AND X AS SHOWN ON THE FLOOD INSURANCE RATE MAPS, 54017C DODDRIDGE COUNTY, WV. UNINCORPORATED AREAS, PANEL NUMBER 0045C, EFFECTIVE DATE OCTOBER 4, 2011.

-  ZONE AE IS AREA DETERMINED TO BE A SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. BASE FLOOD ELEVATIONS DETERMINED.
-  ZONE A IS AREA DETERMINED TO BE A SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. NO BASE FLOOD ELEVATIONS DETERMINED.
-  ZONE X AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

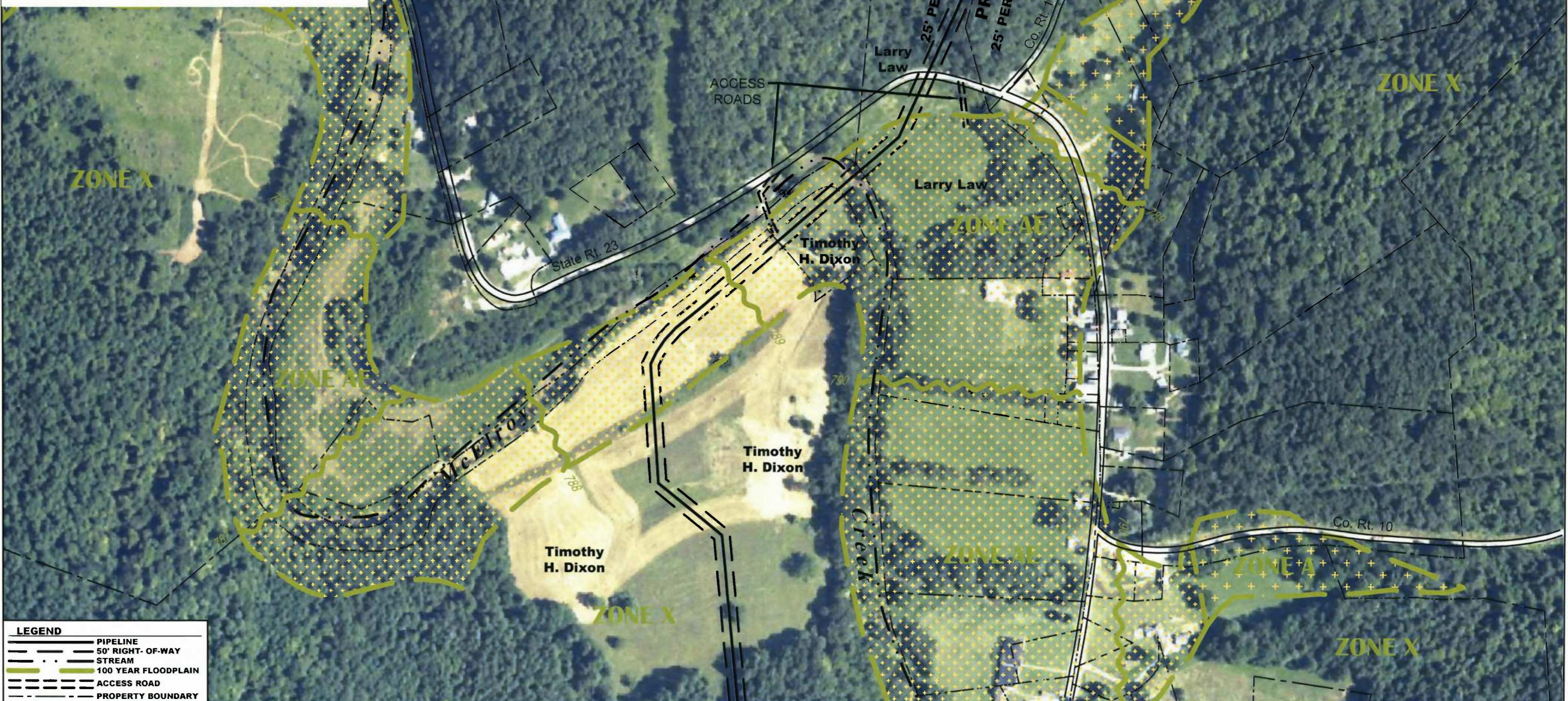
LIMITS AS SHOWN ON MAP BASED ON REFERENCE MAP.




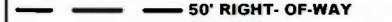
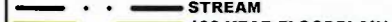
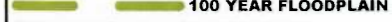


SURVEY DATUM
WVSP-N NAD 83 US FEET
NAVD 88 (12A)

300' 0 300'

SCALE : 1" = 300'



LEGEND

-  PIPELINE
-  50' RIGHT-OF-WAY
-  STREAM
-  100 YEAR FLOODPLAIN
-  ACCESS ROAD
-  PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS

REFERENCE
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.
IMAGERY OBTAINED VIA ERSI WORLD IMAGERY, ACCESSED 10/4/16.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

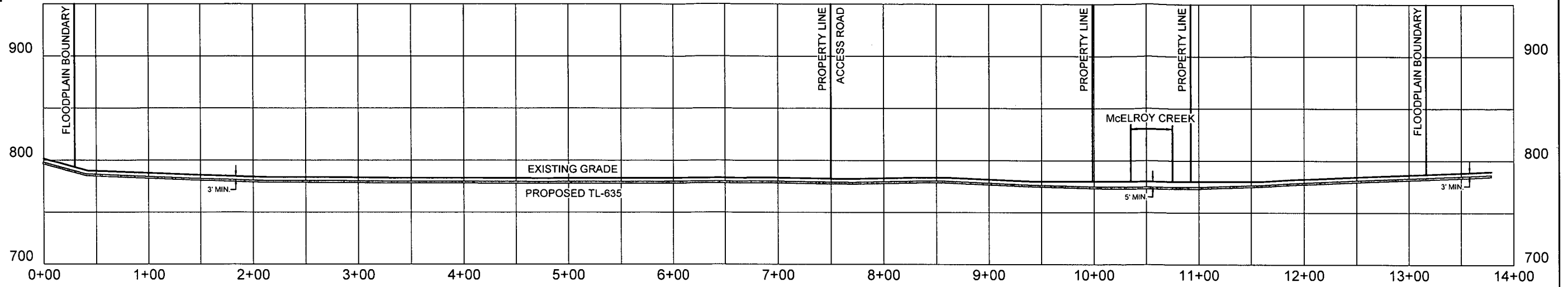
Supply Header Project

FLOODPLAIN PROJECT MAP
PROPOSED PIPELINE TL-635 CROSSING MC ELROY CREEK

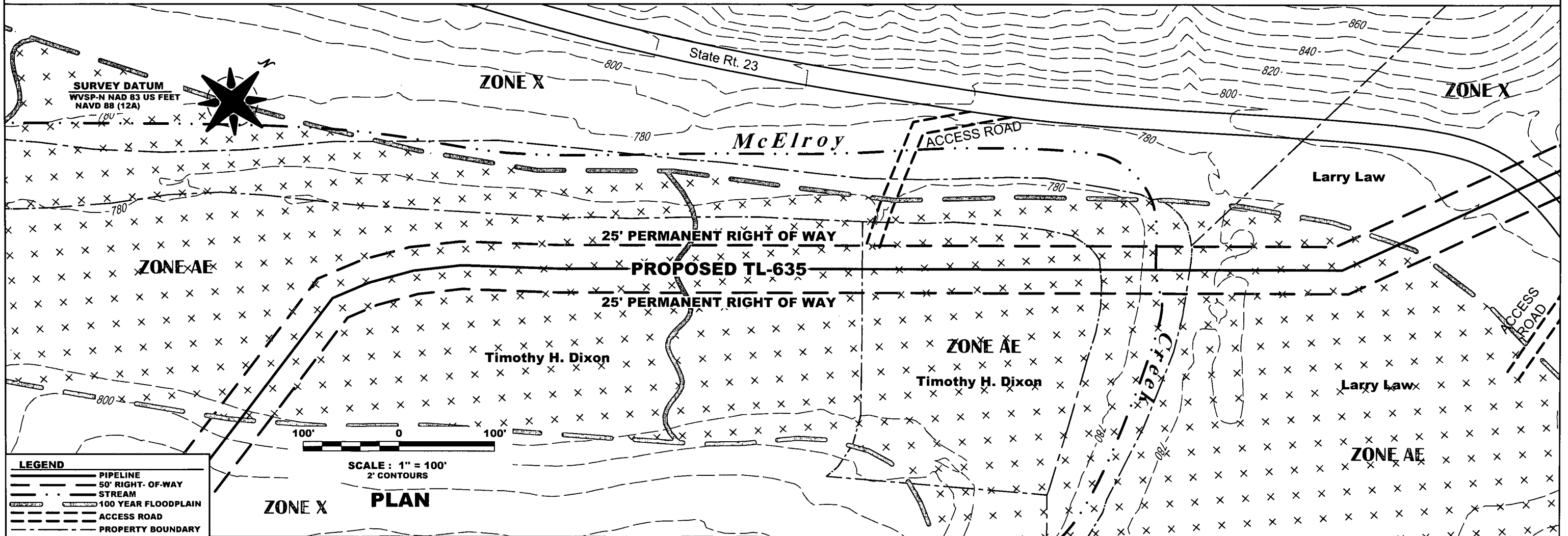
DRAWN: ALC	6/27/17	TITLE:	DISTRICT: McCLELLAN	COUNTY: DODDRIDGE	STATE: WV	GROUP:	DWG. NO.:	REV.:
CHECKED: RVS / DLM	6/27/17		DRYFILE: DOM\FloodplainPermit\Doddridge\MCElroyCk				2 of 3	0
APP. FOR BID:								
APP. FOR CONST.:								
SCALE: 1" = 300'								

NOTES:

1. EXISTING GRADE ELEVATIONS PROVIDED IN THE PLAN/PROFILE WILL BE RESTORED TO LIKE ELEVATIONS AFTER CONSTRUCTION; NO CHANGE TO ELEVATIONS ARE PLANNED



PROFILE
SCALE: 1" = 100' Horizontal & Vertical



LEGEND

- PIPELINE
- 50' RIGHT-OF-WAY
- STREAM
- 100 YEAR FLOODPLAIN
- ACCESS ROAD
- PROPERTY BOUNDARY

SCALE: 1" = 100'
2' CONTOURS

GENERAL NOTES AND COMMENTS:

REFERENCE
LIDAR ELEVATION DATA PROVIDED BY GAI CONSULTANTS.
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
DESIGNITY • INITIATIVE • INNOVATION

DRAWN: ALC 6/27/17
CHECKED: RVS / DLM 6/27/17
APP. FOR BID:
APP. FOR CONST.:
SCALE: 1" = 100'

Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

TITLE: **PLAN & PROFILE**
PROPOSED PIPELINE TL-635 CROSSING MC ELROY CREEK

DISTRICT: McCLELLAN COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO. 3 of 3 REV. 0
DR/PFILE: DOM/FloodplainPermit/Doddridge/McElroyCk

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of West Virginia.

It is to further certify that the attached technical data supports the fact that proposed 30-inch TL-635 Pipeline and associated access roads will not impact the 100-year flood elevations, floodway elevations and floodway widths on Long Run at published sections in the Flood Insurance Rate Map for Doddridge County, WV 54017C0145C, dated October 4, 2011 and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Attached are the following documents that support my findings:

Project Location Map

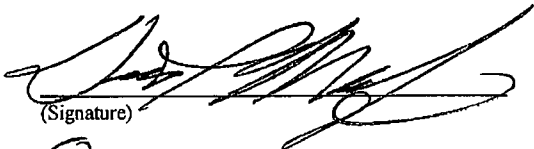
Proposed Pipeline TL-635 Crossing Long Run 1 of 3

Flood Plain Project Map

Proposed Pipeline TL-635 Crossing Long Run 2 of 3

Plan and Profile

Proposed Pipeline TL-635 Crossing Long Run 3 of 3



(Signature)

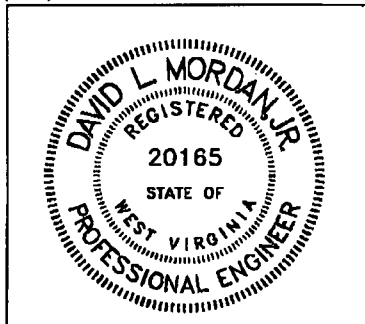
Owner

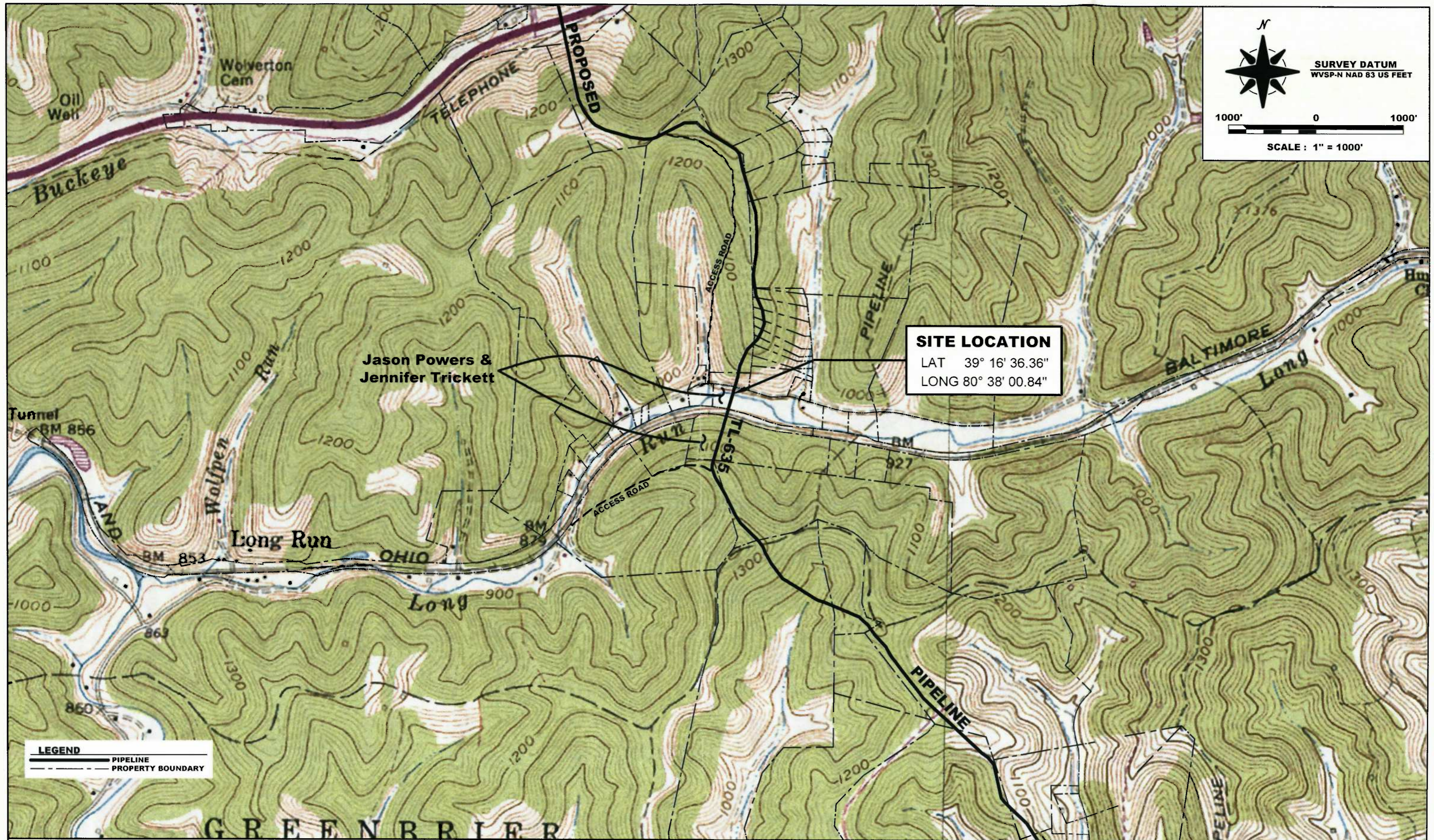
(Title)

I3 Engineering & Consulting, LLC
1160 Johnson Ave., Suite 101
Bridgeport, WV 26330
Phone 304-848-6730

July 11, 2017

(Date)





SURVEY DATUM
WVSP-N NAD 83 US FEET



SCALE: 1" = 1000'

SITE LOCATION
LAT 39° 16' 36.36"
LONG 80° 38' 00.84"

LEGEND
 PIPELINE
 PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
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 U.S.G.S. TOPOGRAPHIC MAPS
 SALEM & SMITHBURG, WV 7.5' QUADRANGLES


SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL


I3 Engineering and Consulting, LLC
INTEGRITY • INITIATIVE • INNOVATION
 DRAWN: ALC 6/28/17
 CHECKED: RVS / DLM 6/28/17
 APP. FOR BID:
 APP. FOR CONST.:
 SCALE: 1" = 1000'

Supply Header Project
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000
PROJECT LOCATION MAP
PROPOSED PIPELINE TL-635 CROSSING LONG RUN
 DISTRICT: GRANT COUNTY: DODDRIDGE STATE: WV
 DWG. NO. 1 of 3 REV. 0
 DR/FILE: DOM/Floodplain/Fermi/Doddridge/LongRun

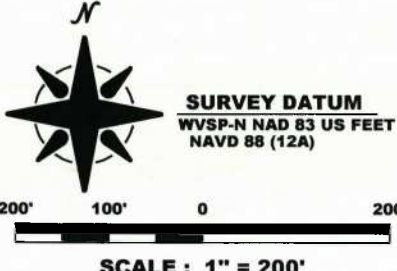
FLOOD PLAIN REFERENCE

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 ZONE AE IS AREA DETERMINED TO BE A SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. BASE FLOOD ELEVATIONS DETERMINED.

 ZONE X AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

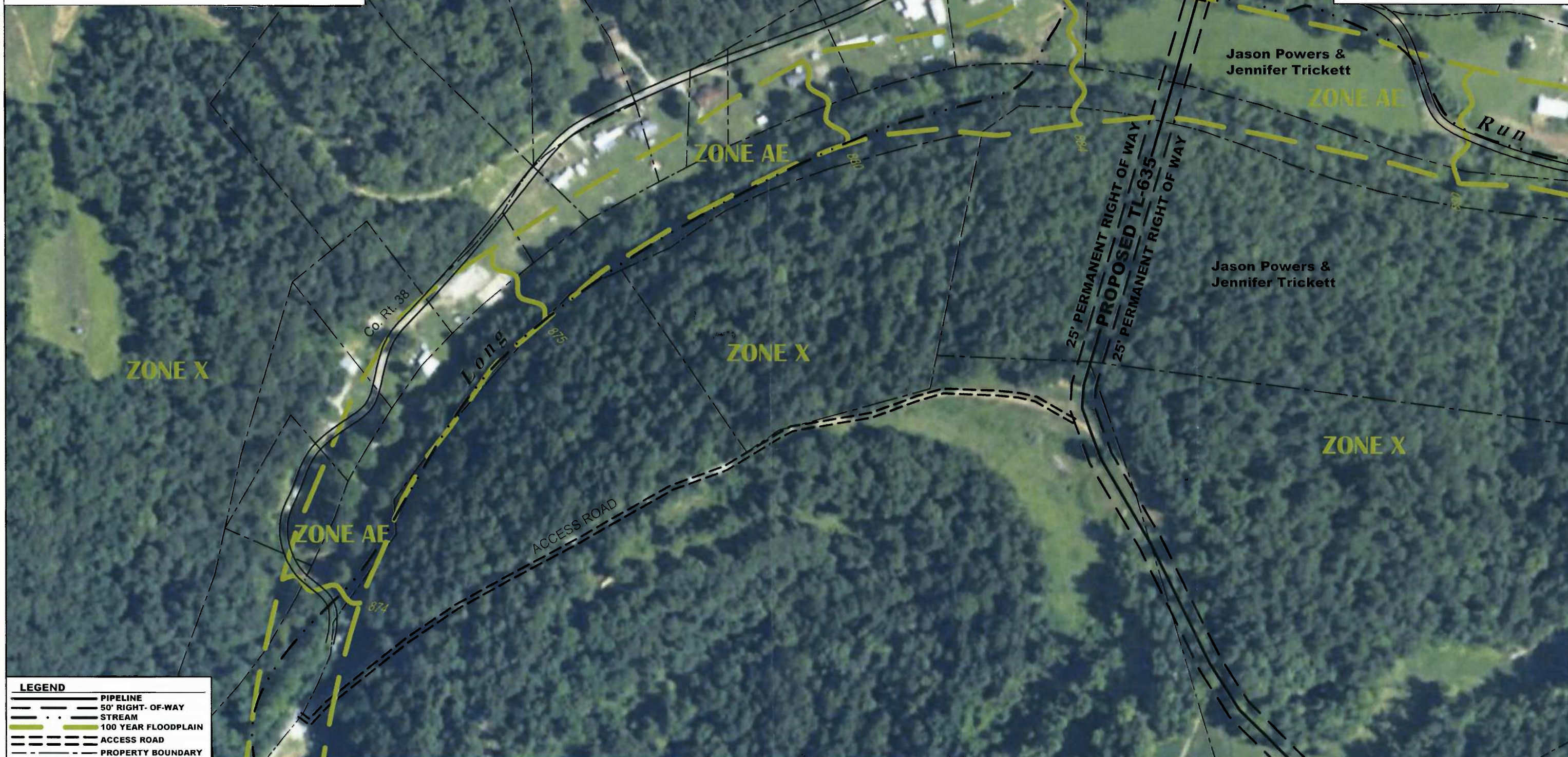
LIMITS AS SHOWN ON MAP BASED ON REFERENCE MAP.





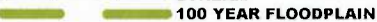


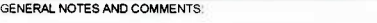
SURVEY DATUM
WVSP-N NAD 83 US FEET
NAVD 88 (12A)

200' 100' 0 200'

SCALE : 1" = 200'



LEGEND

	PIPELINE
	50' RIGHT- OF-WAY
	STREAM
	100 YEAR FLOODPLAIN
	ACCESS ROAD
	PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.
IMAGERY OBTAINED VIA ERSI WORLD IMAGERY, ACCESSED 10/4/16.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
DIVERSITY • INITIATIVE • INNOVATION

DRAWN:	ALC	6/28/17
CHECKED:	RVS / DLM	6/28/17
APP. FOR BID:		
APP. FOR CONST.:		
SCALE:	1" = 200'	

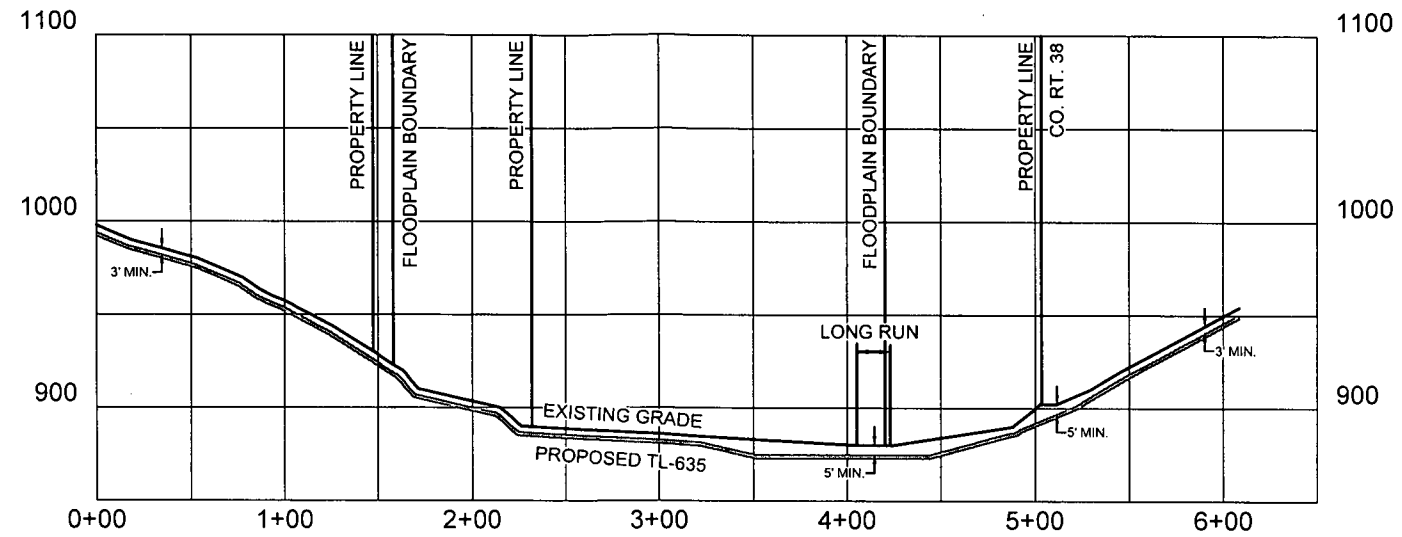
Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

FLOODPLAIN PROJECT MAP
PROPOSED PIPELINE TL-635 CROSSING LONG RUN

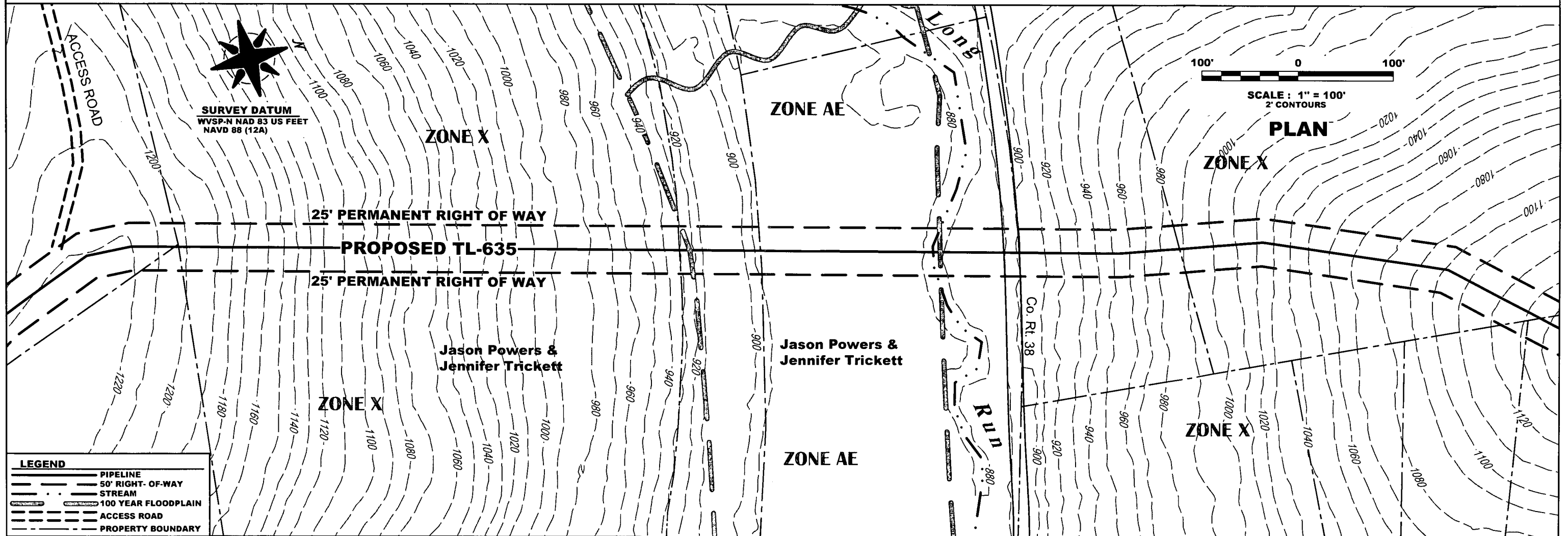
DISTRICT:	GRANT	COUNTY:	DODDRIDGE	STATE:	WV	GROUP		DWG. NO.	2 of 3	REV.	0
DIR/FILE:	DOM\FloodplainPerms\DoddridgeLongRun										

NOTES:

- EXISTING GRADE ELEVATIONS PROVIDED IN THE PLAN/PROFILE WILL BE RESTORED TO LIKE ELEVATIONS AFTER CONSTRUCTION; NO CHANGE TO ELEVATIONS ARE PLANNED



PROFILE
SCALE: 1" = 100' Horizontal & Vertical



LEGEND

- PIPELINE
- 50' RIGHT-OF-WAY
- STREAM
- 100 YEAR FLOODPLAIN
- ACCESS ROAD
- PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
LIDAR ELEVATION DATA PROVIDED BY GAI CONSULTANTS.
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

I₃ Engineering and Consulting, LLC
DESIGNER INITIATOR SUBMITTER

DRAWN: ALC 6/28/17
CHECKED: RVS / DLM 6/28/17
APP. FOR BID: [Signature]
APP. FOR CONST.: [Signature]
SCALE: 1" = 100'

Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PLAN & PROFILE
PROPOSED PIPELINE TL-635 CROSSING LONG RUN

DISTRICT: GRANT COUNTY: DODDRIDGE STATE: WV GROUP: [] DWG. NO.: [] REV.: []
DRAWN: [] DATE: []
FILE: DOM\FloodplainPermit\Doddridge\LongRun 3 of 3 0

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of West Virginia.

It is to further certify that the attached technical data supports the fact that proposed 30-inch TL-635 Pipeline and associated access roads will not impact the 100-year flood elevations, floodway elevations and floodway widths on Buffalo Calf Fork at published sections in the Flood Insurance Rate Map for Doddridge County, WV 54017C0165C, dated October 4, 2011 and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Attached are the following documents that support my findings:

Project Location Map

Proposed Pipeline TL-635 Crossing Buffalo Calf Fork 1 of 3

Flood Plain Project Map

Proposed Pipeline TL-635 Crossing Buffalo Calf Fork 2 of 3

Plan and Profile

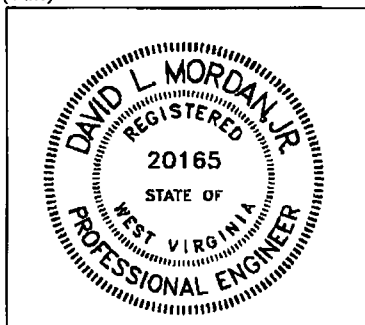
Proposed Pipeline TL-635 Crossing Buffalo Calf Fork 3 of 3

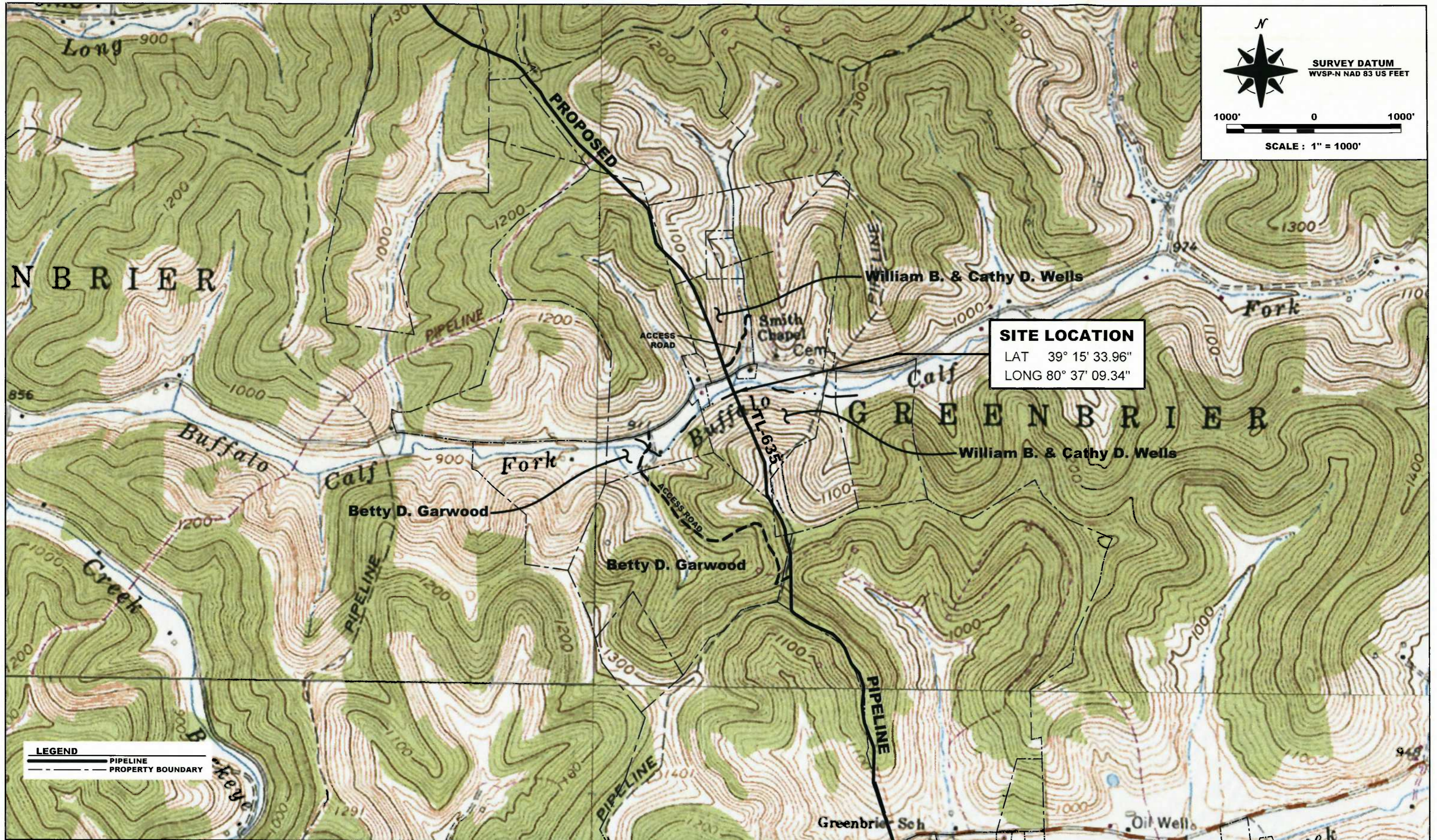

(Signature)

July 11, 2017
(Date)


Owner
(Title)

I3 Engineering & Consulting, LLC
1160 Johnson Ave., Suite 101
Bridgeport, WV 26330
Phone 304-848-6730





N



SURVEY DATUM
WVSP-N NAD 83 US FEET

1000' 0 1000'

SCALE : 1" = 1000'

SITE LOCATION
 LAT 39° 15' 33.96"
 LONG 80° 37' 09.34"

LEGEND
 — PIPELINE
 - - - PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS

REFERENCE
 PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS
 U.S.G.S. TOPOGRAPHIC MAPS
 BIG ISAAC, NEW MILTON, SALEM & SMITHBURG, WV 7.5 QUADRANGLES

SYM	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP

Engineering and Consulting, LLC
INTEGRITY • INITIATIVE • INNOVATION

DRAWN: ALC 6/29/17
 CHECKED: RVS / DLM 6/29/17
 APP. FOR BID:
 APP. FOR CONST.:
 SCALE: 1" = 1000'

Supply Header Project
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PROJECT LOCATION MAP
PROPOSED PIPELINE TL-635 CROSSING BUFFALO CALF FORK

DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO: REV:
 DR/FILE: DOM/FloodplainPermit/Doddridge/BuffaloCalfFork 1 of 3 0

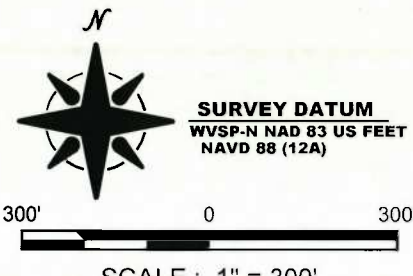
FLOOD PLAIN REFERENCE

THE PROPERTY IS LOCATED IN ZONE A AND X AS SHOWN ON THE FLOOD INSURANCE RATE MAP, 54017C DODDRIDGE COUNTY, WV. UN-INCORPORATED AREAS, PANEL NUMBER 0165C, EFFECTIVE DATE OCTOBER 4, 2011.

ZONE A IS AREA DETERMINED TO BE A SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATED BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. NO BASE ELEVATION DETERMINED.

ZONE X IS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREA LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

LIMITS AS SHOWN ON MAP BASED ON REFERENCE MAPS.



SURVEY DATUM
WVSP-N NAD 83 US FEET
NAVD 88 (12A)

300' 0 300'

SCALE : 1" = 300'



LEGEND

- PIPELINE
- 50' RIGHT-OF-WAY
- STREAM
- 100 YEAR FLOODPLAIN
- ACCESS ROAD
- PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS
IMAGERY OBTAINED VIA ERSI WORLD IMAGERY, ACCESSED 10/4/18

SYM	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

I3 Engineering and Consulting, LLC
INTEGRITY • INITIATIVE • INNOVATION

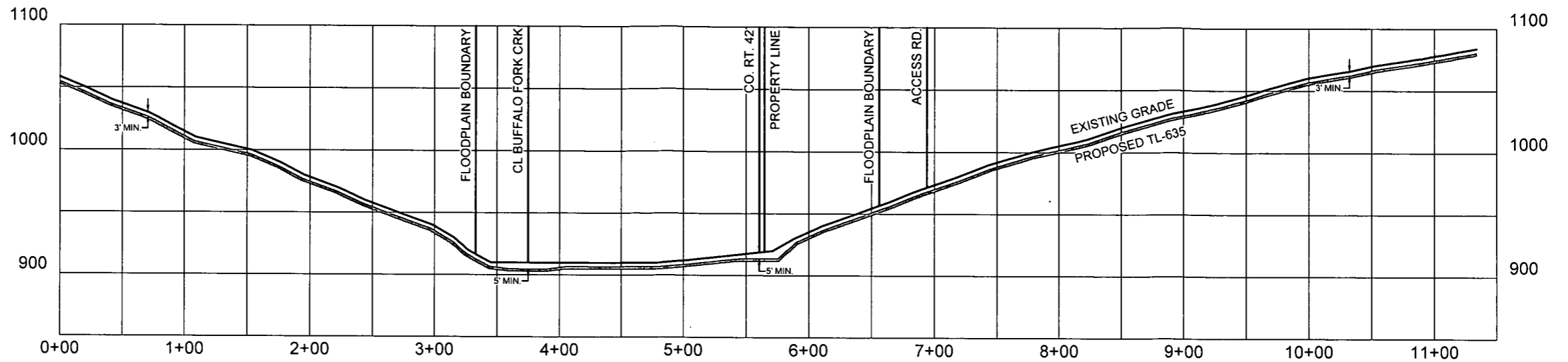
DRAWN: ALC 6/29/17
CHECKED: RVS / DLM 6/29/17
APP. FOR BID:
APP. FOR CONST.:
SCALE: 1" = 300'

Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

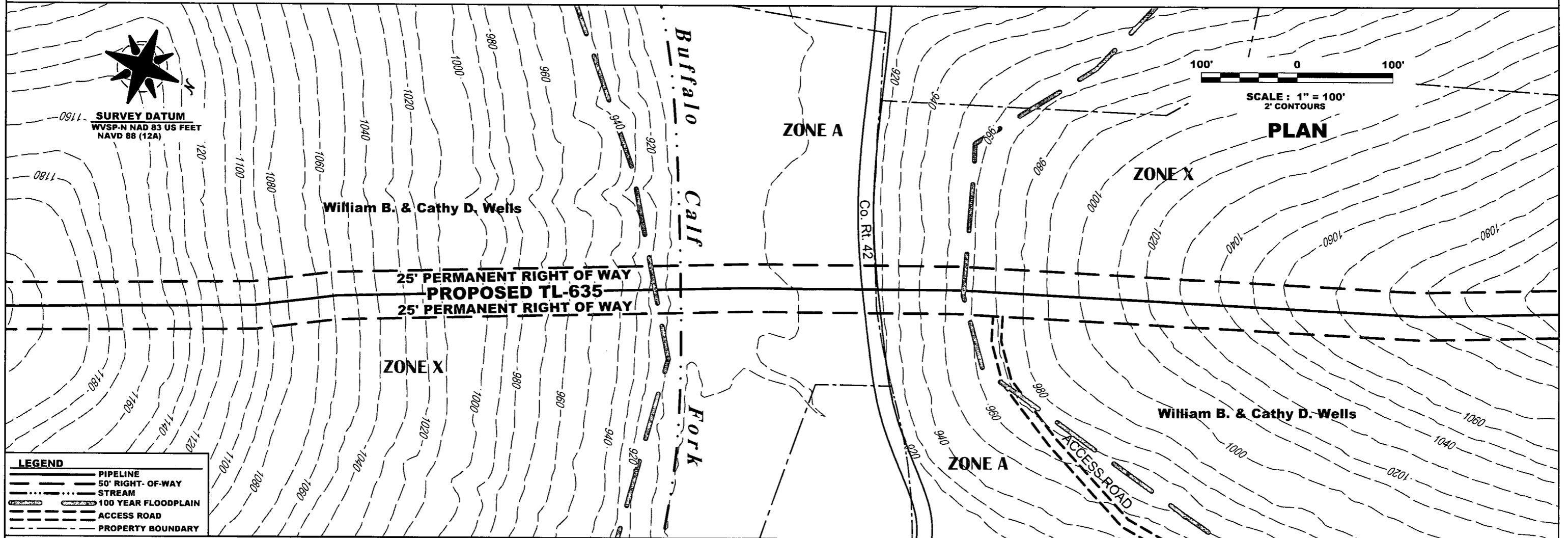
FLOODPLAIN PROJECT MAP
PROPOSED PIPELINE TL-635 CROSSING BUFFALO CALF FORK

DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO: 2 of 3 REV: 0
PROFILE: DOM/FloodplainPermit/Doddridge/BufaloCalfFork

NOTES:
 1. EXISTING GRADE ELEVATIONS PROVIDED IN THE PLAN/PROFILE WILL BE RESTORED TO LIKE ELEVATIONS AFTER CONSTRUCTION; NO CHANGE TO ELEVATIONS ARE PLANNED



PROFILE
 SCALE : 1" = 100' Horizontal & Vertical



LEGEND

- PIPELINE
- 50' RIGHT-OF-WAY
- STREAM
- 100 YEAR FLOODPLAIN
- ACCESS ROAD
- PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
 LIDAR ELEVATION DATA PROVIDED BY GAI CONSULTANTS.
 PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
 INTEGRITY · INITIATIVE · INNOVATION

DRAWN: ALC 6/29/17
 CHECKED: RVS / DLM 6/29/17
 APP. FOR BID:
 APP. FOR CONST.:
 SCALE: 1" = 100'

Supply Header Project
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PLAN & PROFILE
PROPOSED PIPELINE TL-635 CROSSING BUFFALO CALF FORK

DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO. 3 of 3 REV. 0
 DR/PFILE: DOM/FloodplainPermi/Doddridge/BuffaloCalfFork

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of West Virginia.

It is to further certify that the attached technical data supports the fact that proposed 30-inch TL-635 Pipeline and associated access roads will not impact the 100-year flood elevations, floodway elevations and floodway widths on Greenbrier Creek at published sections in the Flood Insurance Rate Map for Doddridge County, WV 54017C0255C, dated October 4, 2011 and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Attached are the following documents that support my findings:

Project Location Map


Proposed Pipeline TL-635 Crossing Greenbrier Creek 1 of 3

Flood Plain Project Map

Proposed Pipeline TL-635 Crossing Greenbrier Creek 2 of 3

Plan and Profile

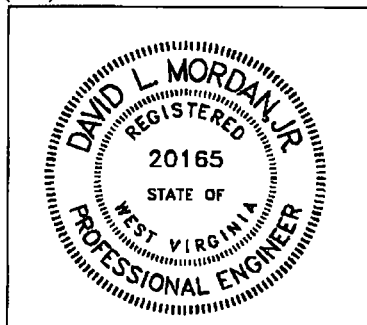
Proposed Pipeline TL-635 Crossing Greenbrier Creek 3 of 3

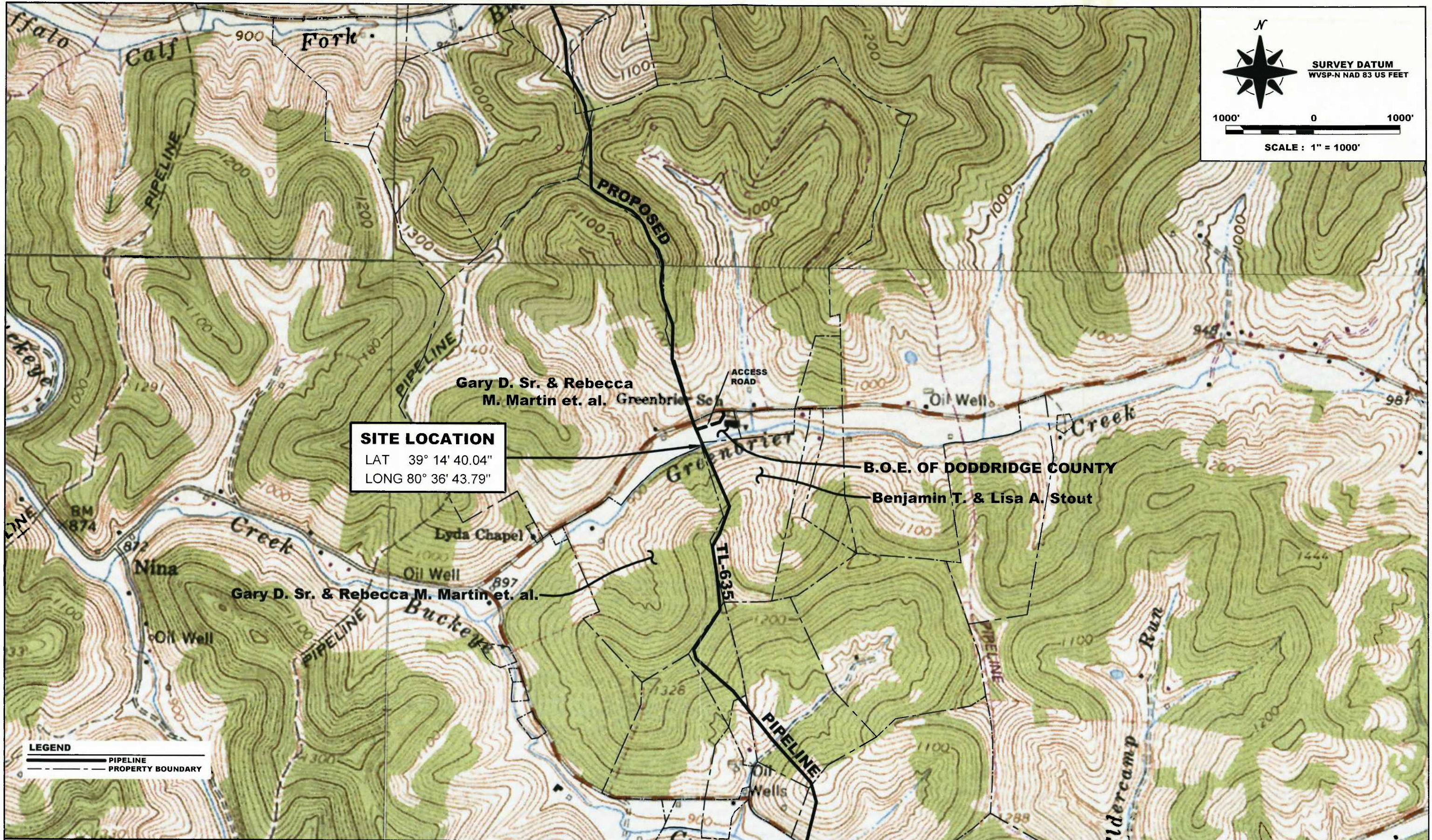

(Signature)

Owner
(Title)

I3 Engineering & Consulting, LLC
1160 Johnson Ave., Suite 101
Bridgeport, WV 26330
Phone 304-848-6730

July 11, 2017
(Date)





N

SURVEY DATUM
WVSP-N NAD 83 US FEET

1000' 0 1000'

SCALE: 1" = 1000'

SITE LOCATION
 LAT 39° 14' 40.04"
 LONG 80° 36' 43.79"

LEGEND
 — PIPELINE
 - - - PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS

REFERENCE
 PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS
 U.S.G.S. TOPOGRAPHIC MAPS
 BIG ISAAC, NEW MILTON, SALEM & SMITHBURG, WV 7.5 QUADRANGLES

SYM	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP	SEAL

Engineering and Consulting, LLC
ESTABLISHED 1988

DRAWN: ALC 6/30/17
 CHECKED: RVS / DLM 6/30/17
 APP. FOR BID:
 APP. FOR CONST.:
 SCALE: 1" = 1000'

Supply Header Project
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PROJECT LOCATION MAP
PROPOSED PIPELINE TL-635 CROSSING GREENBRIER CREEK

DISTRICT: GREENBRIER	COUNTY: DODDRIDGE	STATE: WV	GROUP:	DWG. NO.:	REV:
DIR:FILE: DOM/FloodplainPermit/Doddridge/GreenbrierCreek				1 of 3	0

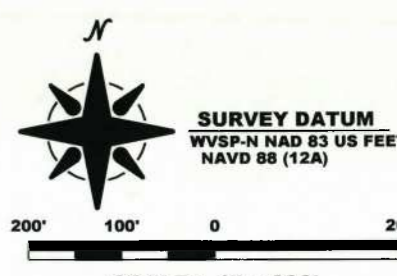
FLOOD PLAIN REFERENCE

THE PROPERTY IS LOCATED IN ZONE AE AND X AS SHOWN ON THE FLOOD INSURANCE RATE MAP, 54017C DODDRIDGE COUNTY, WV. UN-INCORPORATED AREAS, PANEL NUMBER 0255C, EFFECTIVE DATE OCTOBER 4, 2011.

ZONE AE IS AREA DETERMINED TO BE A SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. BASE FLOOD ELEVATIONS DETERMINED.

ZONE X IS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREA LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

LIMITS AS SHOWN ON MAP BASED ON REFERENCE MAPS.



SURVEY DATUM
WVSP-N NAD 83 US FEET
NAVD 88 (12A)

200' 100' 0 200'

SCALE : 1" = 200'



LEGEND

- PIPELINE
- 50' RIGHT-OF-WAY
- ... STREAM
- 100 YEAR FLOODPLAIN
- - - ACCESS ROAD
- - - PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS

REFERENCE
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS
IMAGERY OBTAINED VIA ERSI WORLD IMAGERY, ACCESSED 10/4/16

SYM	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

I3 Engineering and Consulting, LLC
INTEGRITY • INITIATIVE • INNOVATION

DRAWN: ALC 6/30/17
CHECKED: RVS / DLM 6/30/17
APP. FOR BID:
APP. FOR CONST.:
SCALE: 1" = 200'

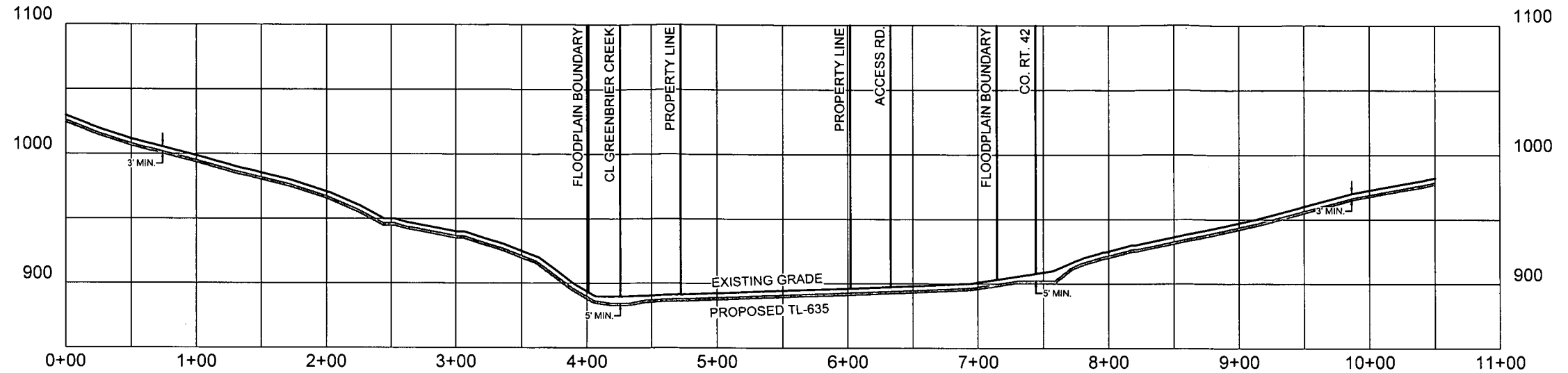
Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

FLOODPLAIN PROJECT MAP
PROPOSED PIPELINE TL-635 CROSSING GREENBRIER CREEK

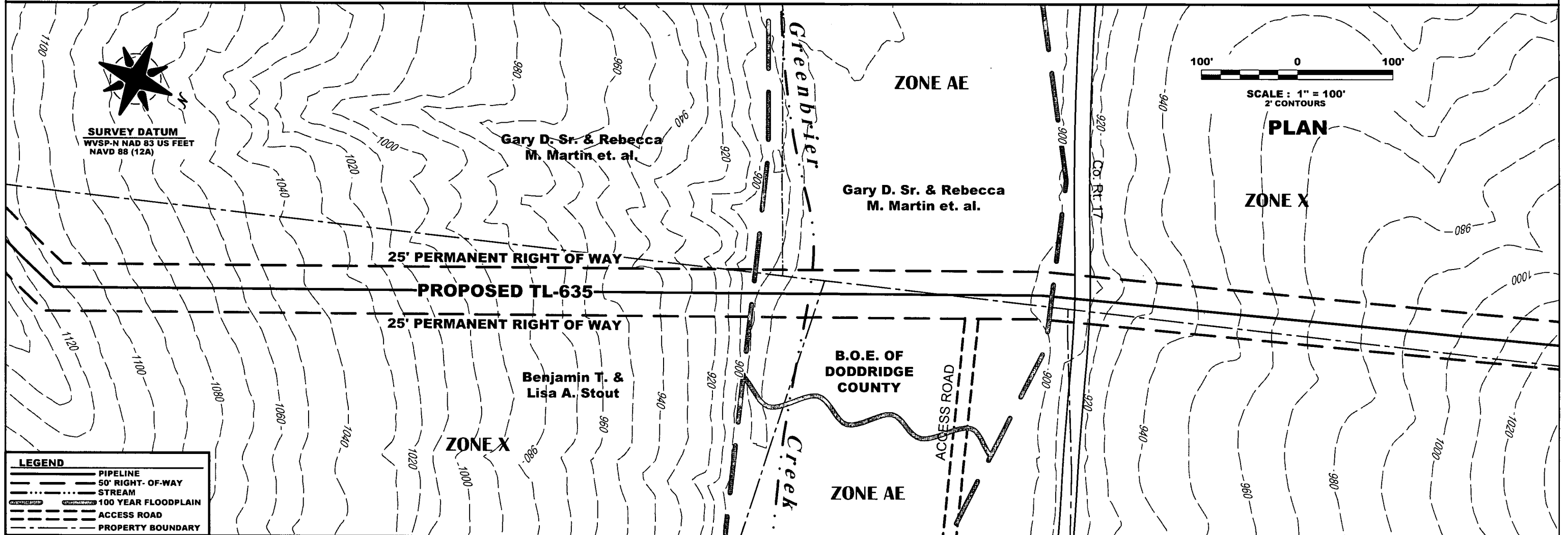
DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO.: 2 of 3
SCALE: 1" = 200' DR/FILE: DOM/FloodplainPermit/Doddridge/GreenbrierCreek

NOTES:

- EXISTING GRADE ELEVATIONS PROVIDED IN THE PLAN/PROFILE WILL BE RESTORED TO LIKE ELEVATIONS AFTER CONSTRUCTION; NO CHANGE TO ELEVATIONS ARE PLANNED



PROFILE
SCALE: 1" = 100' Horizontal & Vertical



LEGEND

- PIPELINE
- - - 50' RIGHT-OF-WAY
- ... STREAM
- 100 YEAR FLOODPLAIN
- ACCESS ROAD
- PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
LIDAR ELEVATION DATA PROVIDED BY GAI CONSULTANTS.
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
INTEGRITY · INITIATIVE · INNOVATION

DRAWN: ALC 6/30/17
CHECKED: RVS / DLM 6/30/17
APP. FOR BID:
APP. FOR CONST.:

SCALE: 1" = 100'

Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PLAN & PROFILE
PROPOSED PIPELINE TL-635 CROSSING GREENBRIER CREEK

DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWS. NO. REV. 3 of 3 0
DWG. NO. 0
DR/FILE: DOM/FloodplainPermit/Doddridge/GreenbrierCreek

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of West Virginia.

It is to further certify that the attached technical data supports the fact that proposed 30-inch TL-635 Pipeline and associated access roads will not impact the 100-year flood elevations, floodway elevations and floodway widths on Buckeye Creek at published sections in the Flood Insurance Rate Map for Doddridge County, WV 54017C0255C, dated October 4, 2011 and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Attached are the following documents that support my findings:

Project Location Map

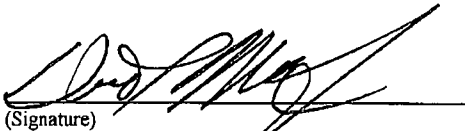
Proposed Pipeline TL-635 Crossing Buckeye Creek 1 of 3

Flood Plain Project Map

Proposed Pipeline TL-635 Crossing Buckeye Creek 2 of 3

Plan and Profile

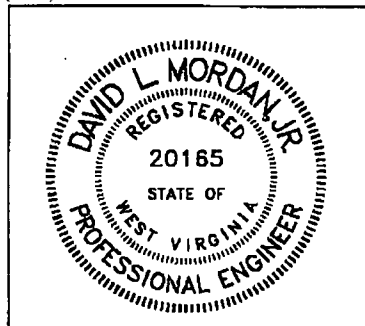
Proposed Pipeline TL-635 Crossing Buckeye Creek 3 of 3

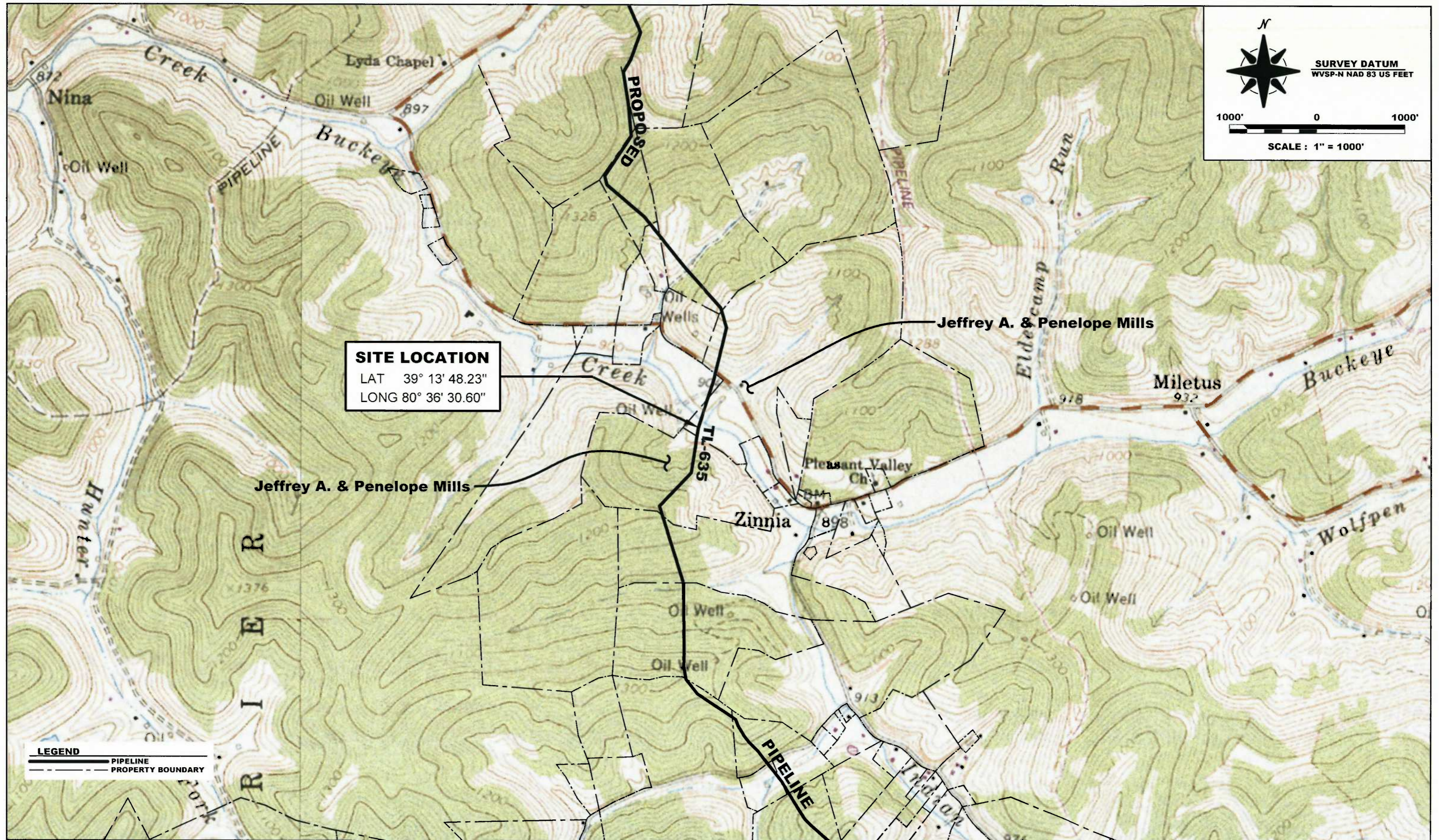

(Signature)

Owner
(Title)


I3 Engineering & Consulting, LLC
1160 Johnson Ave., Suite 101
Bridgeport, WV 26330
Phone 304-848-6730

July 11, 2017
(Date)





N



SURVEY DATUM
WVSP-N NAD 83 US FEET

1000' 0 1000'

SCALE: 1" = 1000'

SITE LOCATION
 LAT 39° 13' 48.23"
 LONG 80° 36' 30.60"

LEGEND
 ——— PIPELINE
 - - - - - PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS

REFERENCE
 PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.
 U.S.G.S. TOPOGRAPHIC MAPS
 BIG ISAAC & NEW MILTON, WV 7.5 QUADRANGLES.

SYM	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP	SEAL

I3 Engineering and Consulting, LLC
INTEGRITY • INITIATIVE • INNOVATION

DRAWN: ALC 6/30/17
 CHECKED: RVS / DLM 6/30/17
 APP. FOR BID:
 APP. FOR CONST.:
 SCALE: 1" = 1000'

Supply Header Project
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PROJECT LOCATION MAP
PROPOSED PIPELINE TL-635 CROSSING BUCKEYE CREEK

DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO.: REV:
 D/P/FILE: DOM/FloodplainPermit/Doddridge/BuckeyeCreek 1 of 3 0

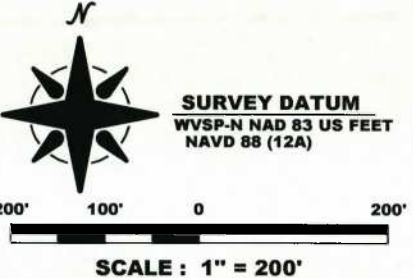
FLOOD PLAIN REFERENCE

THE PROPERTY IS LOCATED IN ZONE AE AND X AS SHOWN ON THE FLOOD INSURANCE RATE MAP, 54017C DODDRIDGE COUNTY, WV. UN-INCORPORATED AREAS, PANEL NUMBER 0255C, EFFECTIVE DATE OCTOBER 4, 2011.

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LIMITS AS SHOWN ON MAP BASED ON REFERENCE MAPS.



SURVEY DATUM
WVSP-N NAD 83 US FEET
NAVD 88 (12A)

200' 100' 0 200'

SCALE : 1" = 200'



LEGEND

- PIPELINE
- 50' RIGHT-OF-WAY
- ... STREAM
- 100 YEAR FLOODPLAIN
- ACCESS ROAD
- PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS

REFERENCE
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS
IMAGERY OBTAINED VIA ERSI WORLD IMAGERY, ACCESSED 10/4/16

SYM	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
INTEGRITY • INITIATIVE • INNOVATION

DRAWN: ALC 6/30/17
CHECKED: RVS / DLM 6/30/17
APP. FOR BID:
APP. FOR CONST.:
SCALE: 1" = 200'

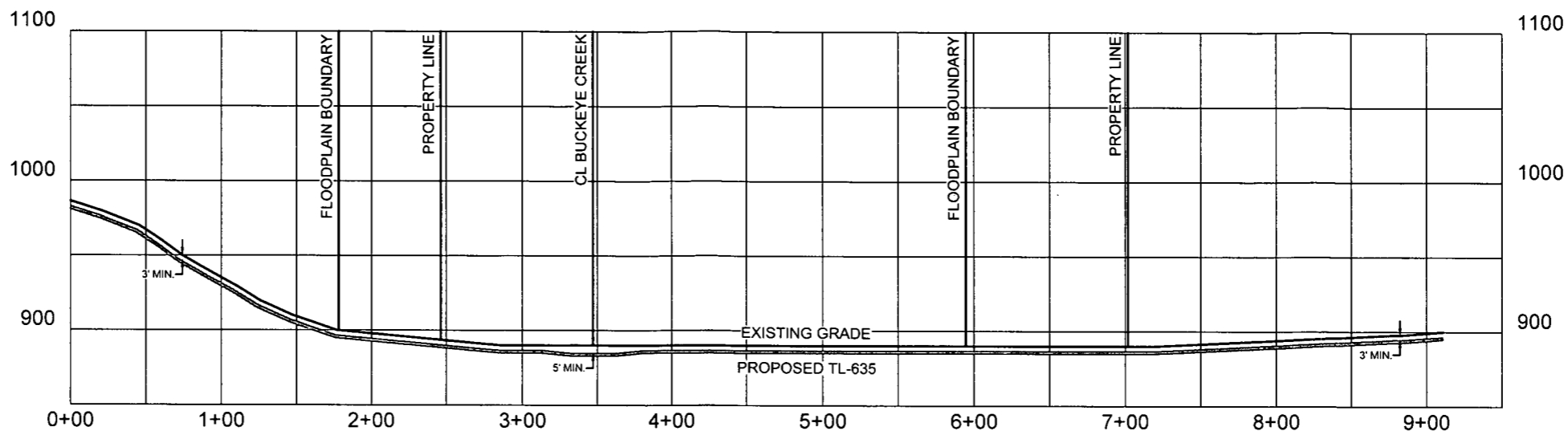
Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

FLOODPLAIN PROJECT MAP
PROPOSED PIPELINE TL-635 CROSSING BUCKEYE CREEK

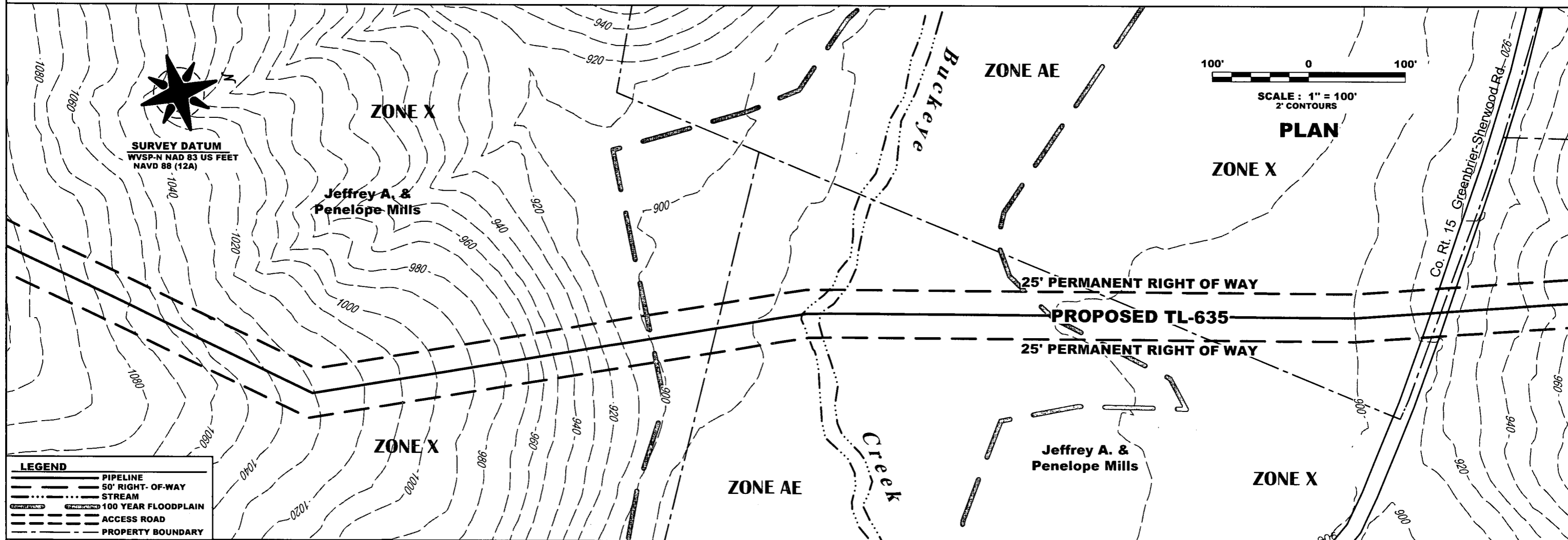
DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO.: 2 of 3 REV: 0
DR/FILE: DOM/FloodplanPermit/Doddridge/BuckeyeCreek

NOTES:

1. EXISTING GRADE ELEVATIONS PROVIDED IN THE PLAN/PROFILE WILL BE RESTORED TO LIKE ELEVATIONS AFTER CONSTRUCTION; NO CHANGE TO ELEVATIONS ARE PLANNED



PROFILE
SCALE: 1" = 100' Horizontal & Vertical



SURVEY DATUM
WVSP-N NAD 83 US FEET
NAVD 88 (12A)

SCALE: 1" = 100'
2' CONTOURS

LEGEND

	PIPELINE
	50' RIGHT-OF-WAY
	STREAM
	100 YEAR FLOODPLAIN
	ACCESS ROAD
	PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
LIDAR ELEVATION DATA PROVIDED BY GAI CONSULTANTS.
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
SECURITY • INITIATIVE • INNOVATION

Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PLAN & PROFILE
PROPOSED PIPELINE TL-635 CROSSING BUCKEYE CREEK

DRAWN: ALC	8/30/17	TITLE:
CHECKED: RVS / DLM	6/30/17	DISTRICT: GREENBRIER
APP. FOR BID:		COUNTY: DODDRIDGE
APP. FOR CONST.:		STATE: WV
SCALE: 1" = 100'		GROUP: DOM/FloodplainPermit/Doddridge/BuckeyeCreek
		DWG. NO. 3 of 3
		REV. 0

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified engineer licensed to practice in the State of West Virginia.

It is to further certify that the attached technical data supports the fact that proposed 30-inch TL-635 Pipeline and associated access roads will not impact the 100-year flood elevations, floodway elevations and floodway widths on Meathouse Fork at published sections in the Flood Insurance Rate Map for Doddridge County, WV 54017C0045C, dated October 4, 2011 and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

Attached are the following documents that support my findings:

Project Location Map

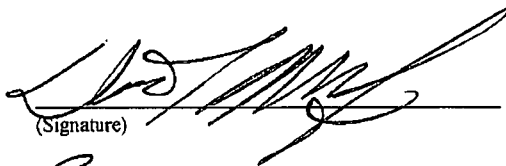
Proposed Pipeline TL-635 Crossing Meathouse Fork 1 of 3

Flood Plain Project Map

Proposed Pipeline TL-635 Crossing Meathouse Fork 2 of 3

Plan and Profile

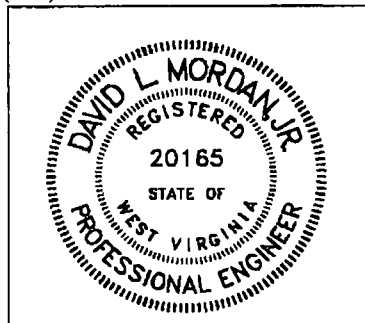
Proposed Pipeline TL-635 Crossing Meathouse Fork 3 of 3

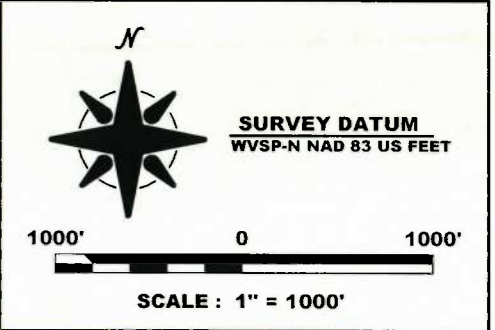
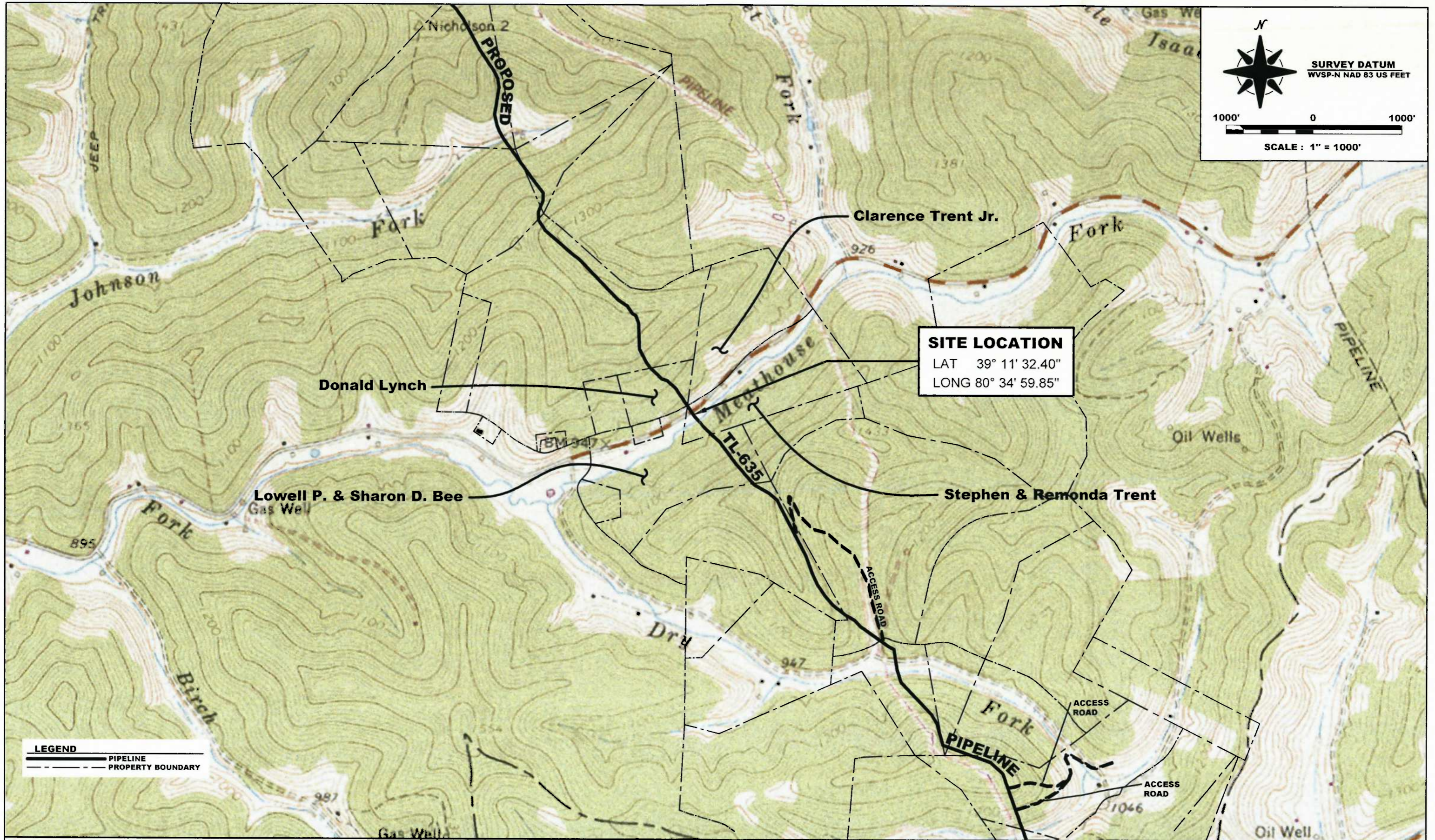

(Signature)

Bianco
(Title)

I3 Engineering & Consulting, LLC
1160 Johnson Ave., Suite 101
Bridgeport, WV 26330
Phone 304-848-6730

July 11, 2017
(Date)





SITE LOCATION
 LAT 39° 11' 32.40"
 LONG 80° 34' 59.85"

LEGEND
 — PIPELINE
 - - - PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS

REFERENCE
 PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.
 U.S.G.S. TOPOGRAPHIC MAP
 BIG ISAAC, WV 7.5' QUADRANGLE.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.

Engineering and Consulting, LLC
ENTERPRIS • INNOVATION • INTEGRATION

DRAWN: ALC 7/10/17
 CHECKED: RVS / DLM 7/10/17
 APP. FOR BID:
 APP. FOR CONST.:
 SCALE: 1" = 1000'

Supply Header Project
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

PROJECT LOCATION MAP
PROPOSED PIPELINE TL-635 CROSSING MEATHOUSE FORK

DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO. REV.
 DIRFILE: DOM/FloodplainPermit/Doddrdge/MeathouseFork 1 of 3 0

FLOOD PLAIN REFERENCE

THE PROPERTY IS LOCATED IN ZONE A AND X AS SHOWN ON THE FLOOD INSURANCE RATE MAP, 54017C DODDRIDGE COUNTY, WV. UN-INCORPORATED AREAS, PANEL NUMBER 0255C, EFFECTIVE DATE OCTOBER 4, 2011.

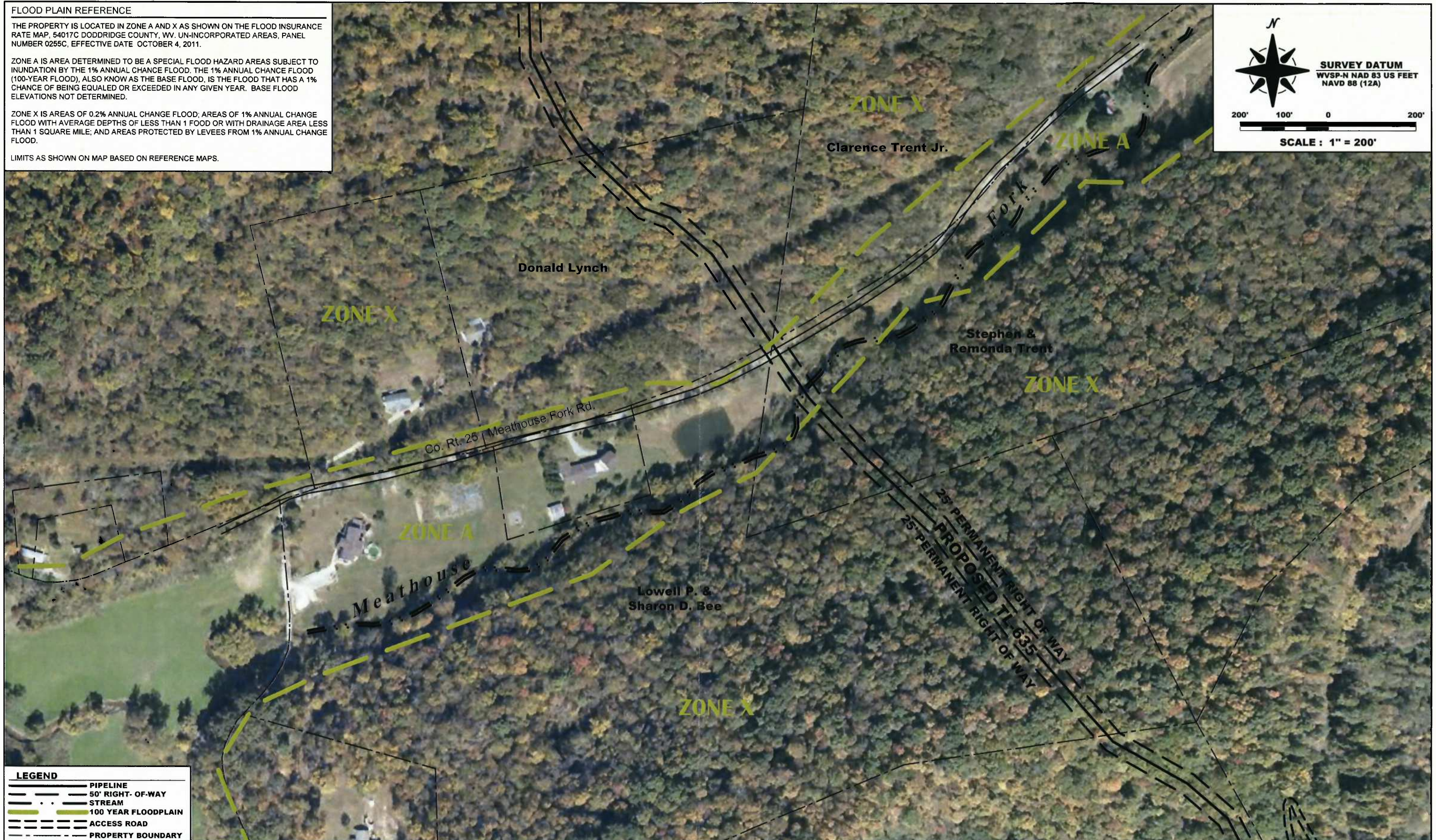
ZONE A IS AREA DETERMINED TO BE A SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. BASE FLOOD ELEVATIONS NOT DETERMINED.

ZONE X IS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREA LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

LIMITS AS SHOWN ON MAP BASED ON REFERENCE MAPS.

SURVEY DATUM
WVSP-N NAD 83 US FEET
NAVD 88 (12A)

SCALE: 1" = 200'



LEGEND

- PIPELINE
- 50' RIGHT-OF-WAY
- STREAM
- 100 YEAR FLOODPLAIN
- ACCESS ROAD
- PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.
IMAGERY OBTAINED VIA ERSI WORLD IMAGERY, ACCESSED 10/4/16.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
INTEGRITY • DIVERSITY • INNOVATION

DRAWN: ALC 7/10/17
CHECKED: RVS / DLM 7/10/17
APP. FOR BID:
APP. FOR CONST.:
SCALE: 1" = 200'

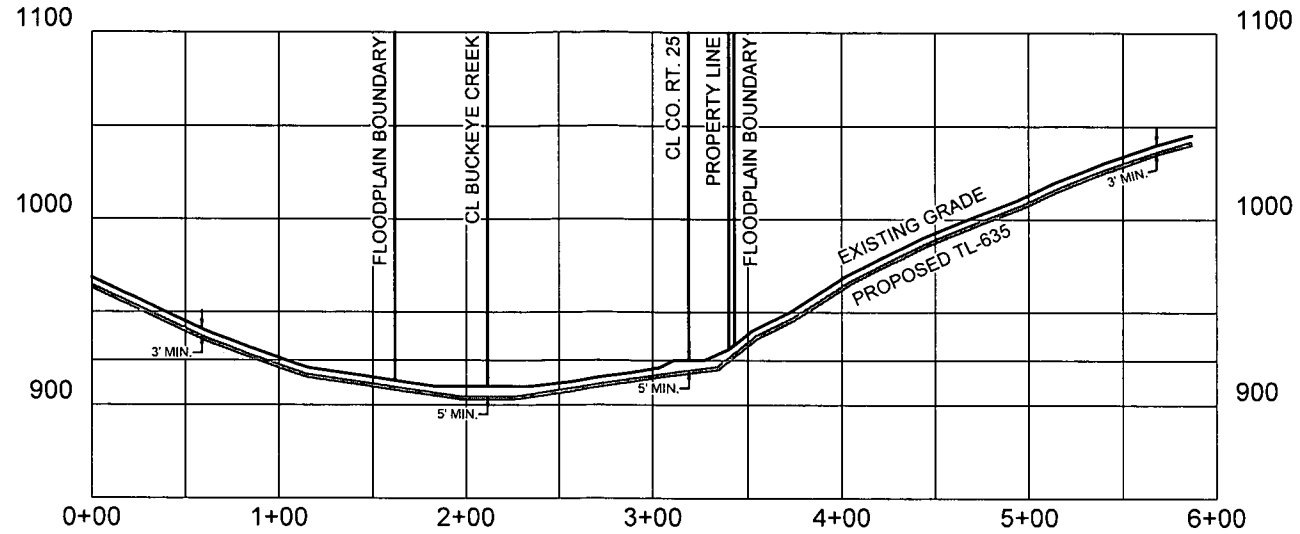
Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

FLOODPLAIN PROJECT MAP
PROPOSED PIPELINE TL-635 CROSSING MEATHOUSE FORK

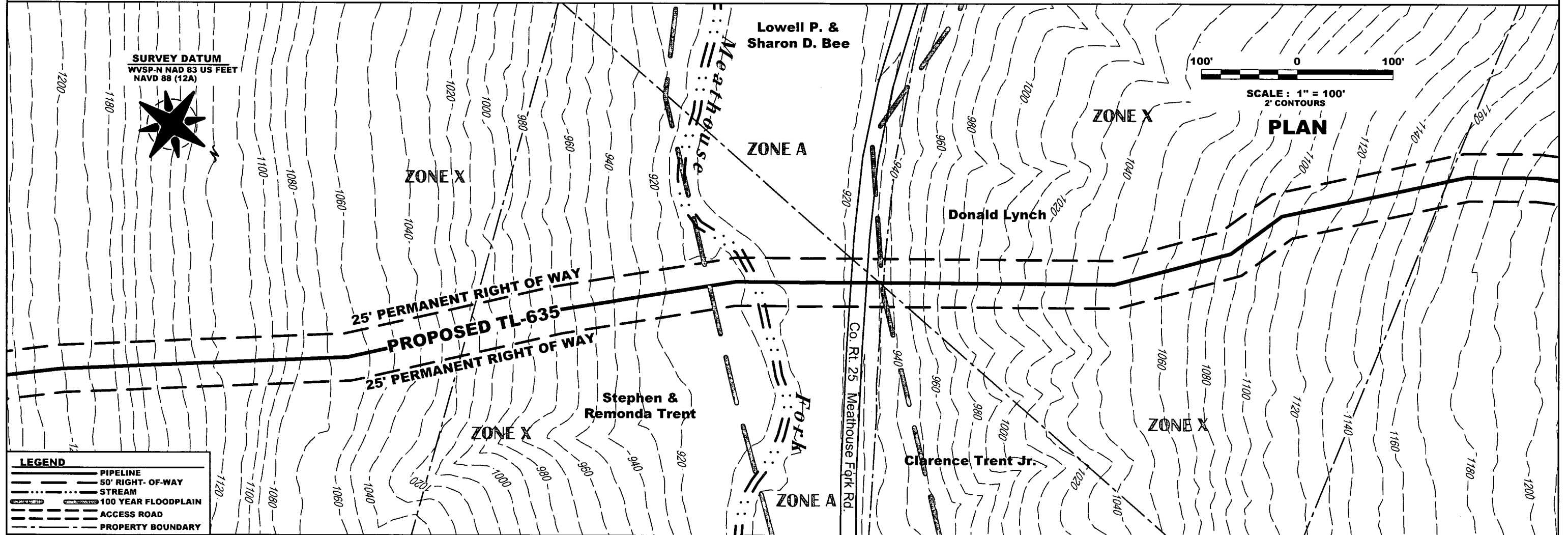
DISTRICT: GREENBRIER COUNTY: DODDRIDGE STATE: WV GROUP: DWG. NO.: 2 of 3 REV: 0
DWG. FILE: DOM\FloodplainPermit\Doddridge\MeathouseFork

NOTES:

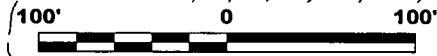
1. EXISTING GRADE ELEVATIONS PROVIDED IN THE PLAN/PROFILE WILL BE RESTORED TO LIKE ELEVATIONS AFTER CONSTRUCTION; NO CHANGE TO ELEVATIONS ARE PLANNED



PROFILE
SCALE: 1" = 100' Horizontal & Vertical



SURVEY DATUM
WVSP-N NAD 83 US FEET
NAVD 88 (12A)



SCALE: 1" = 100'
2' CONTOURS

PLAN

LEGEND	
	PIPELINE
	50' RIGHT-OF-WAY
	STREAM
	100 YEAR FLOODPLAIN
	ACCESS ROAD
	PROPERTY BOUNDARY

GENERAL NOTES AND COMMENTS:

REFERENCE
LIDAR ELEVATION DATA PROVIDED BY GAI CONSULTANTS.
PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.	SEAL

Engineering and Consulting, LLC
INTEGRITY • INITIATIVE • INNOVATION

DRAWN:	ALC	7/10/17
CHECKED:	RVS / DLM	7/10/17
APP. FOR BID:		
APP. FOR CONST.:		
SCALE:	1" = 100'	

Supply Header Project
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

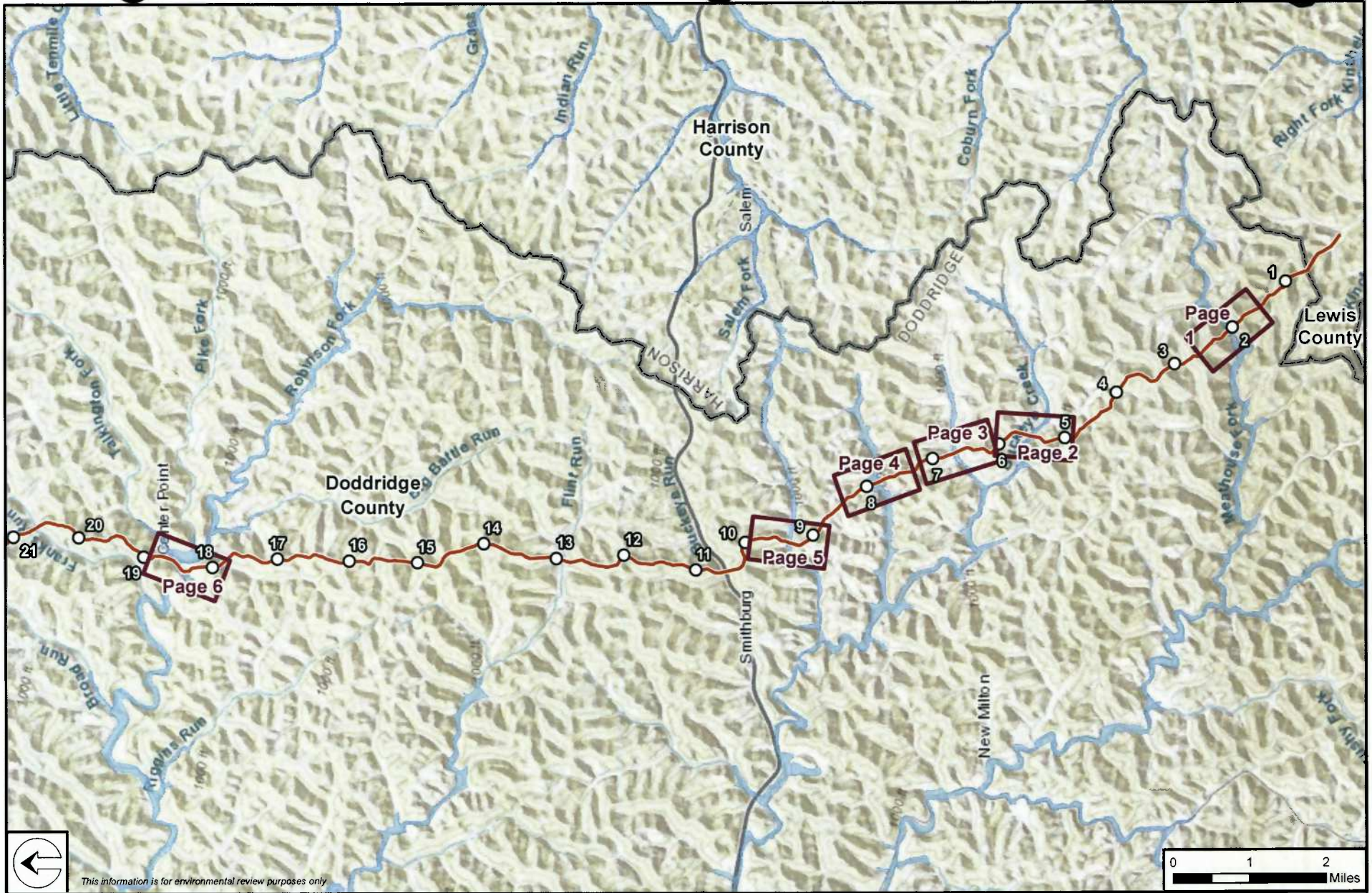
PLAN & PROFILE
PROPOSED PIPELINE TL-635 CROSSING MEATHOUSE FORK

DISTRICT:	GREENBRIER	COUNTY:	DODDRIDGE	STATE:	WV	GROUP:		DWG. NO.:		REV.:	
DRAWN:		CHECKED:		DATE:		SCALE:					

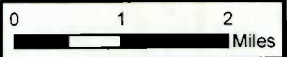
3 of 3 0

Landowner List

Name	Mailing Address	City, State, Zip
Clarence Trent Jr and Deborah E	1054 Wolf Pen Rd	New Milton, WV 26411
Stephen W Trent and Remonda L (SURV)	14 Millbrook Road	Bridgeport, WV 26330
Lowell P Bee and Sharon D	9844 Meathouse Fork Rd	Salem, WV 26426
Jeffrey A Mills and Penelope B	1083 Miletus Rd	Salem, WV 26426
Francis Eugene Law and Linda Joy (SURV)	78 Meadowview Rd	Salem, WV 26426
James Edward Stout II and Michelle Lea (SURV)	3816 Greenbrier Rd	Salem, WV 26426
Gary Martin and Rebecca M	4294 Greenbrier Rd	Salem, WV 26426
William B Wells and Cathy D (SURV)	16 Gain St	Salem, WV 26426
Henry A Ahouse Jr & Kimberly R (SURV)	93 Penny Ln	Salem, WV 26426
Betty D Garwood	1452 Buffalo Calf	Salem, WV 26426
Jason Powers & Jennifer L (Trickett) (SURV)	3900 Salem Long Run Rd	Salem, WV 26426
Roberta J Martin	38 Hide Away Ln	Salem, WV 26426
Terry T Williams @ Cathy D (SURV)	9229 WV RT 23 N	Center Point, WV 16339
Lois Jean Braun	9699 WV Route 23 N	West Union, WV 26456
Timothy H Dixon and Beth A (Surv)	114 Leslie Ln	Yorktown, VA 23693



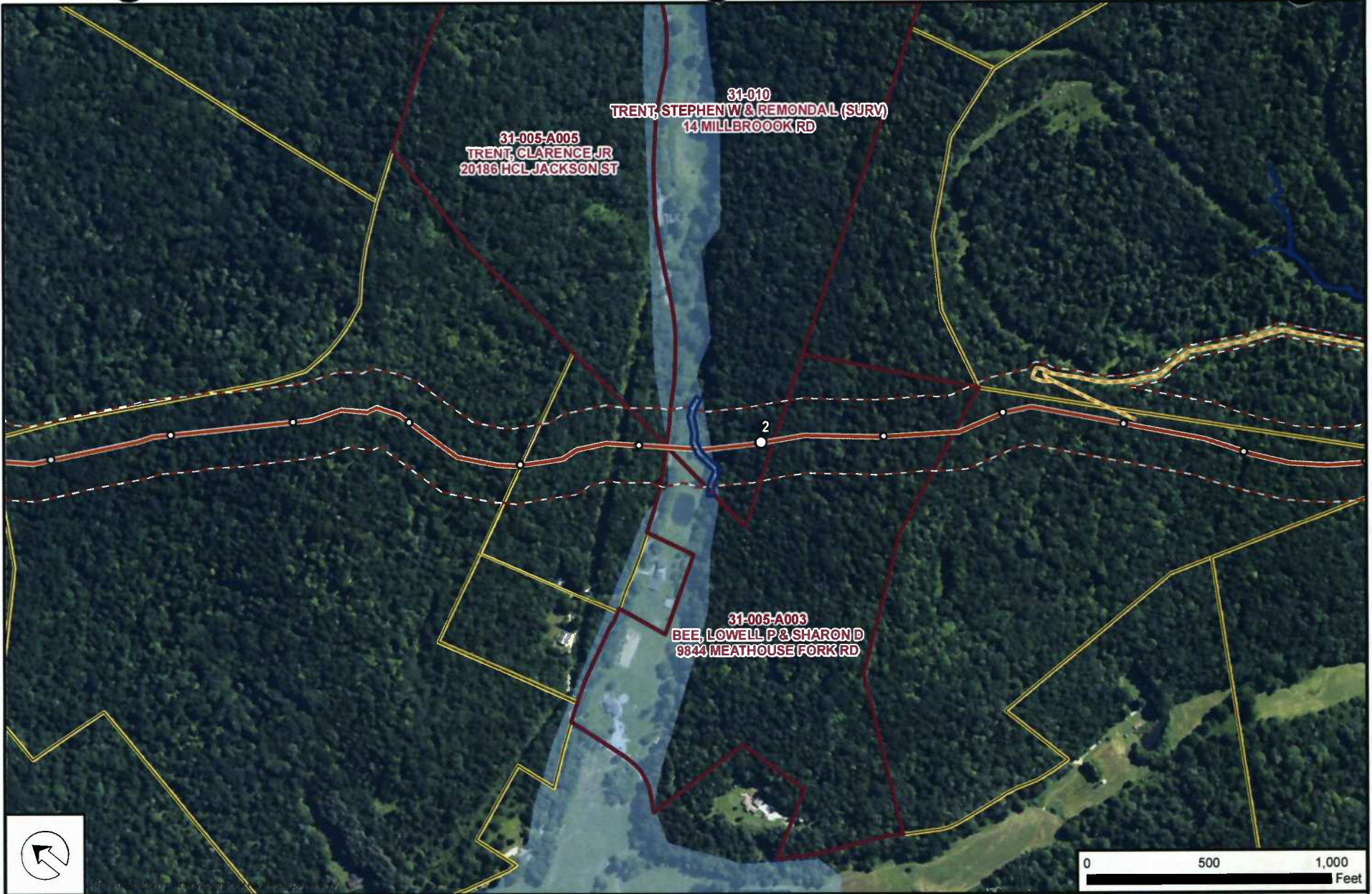
This information is for environmental review purposes only



- Mileposts
- Proposed Centerline (TL-635)
- Page Index
- FEMA Floodplains

**Supply Header Project
Attachment 4
Floodplain Permit Maps
Doddridge County, West Virginia**



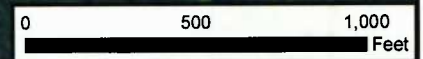
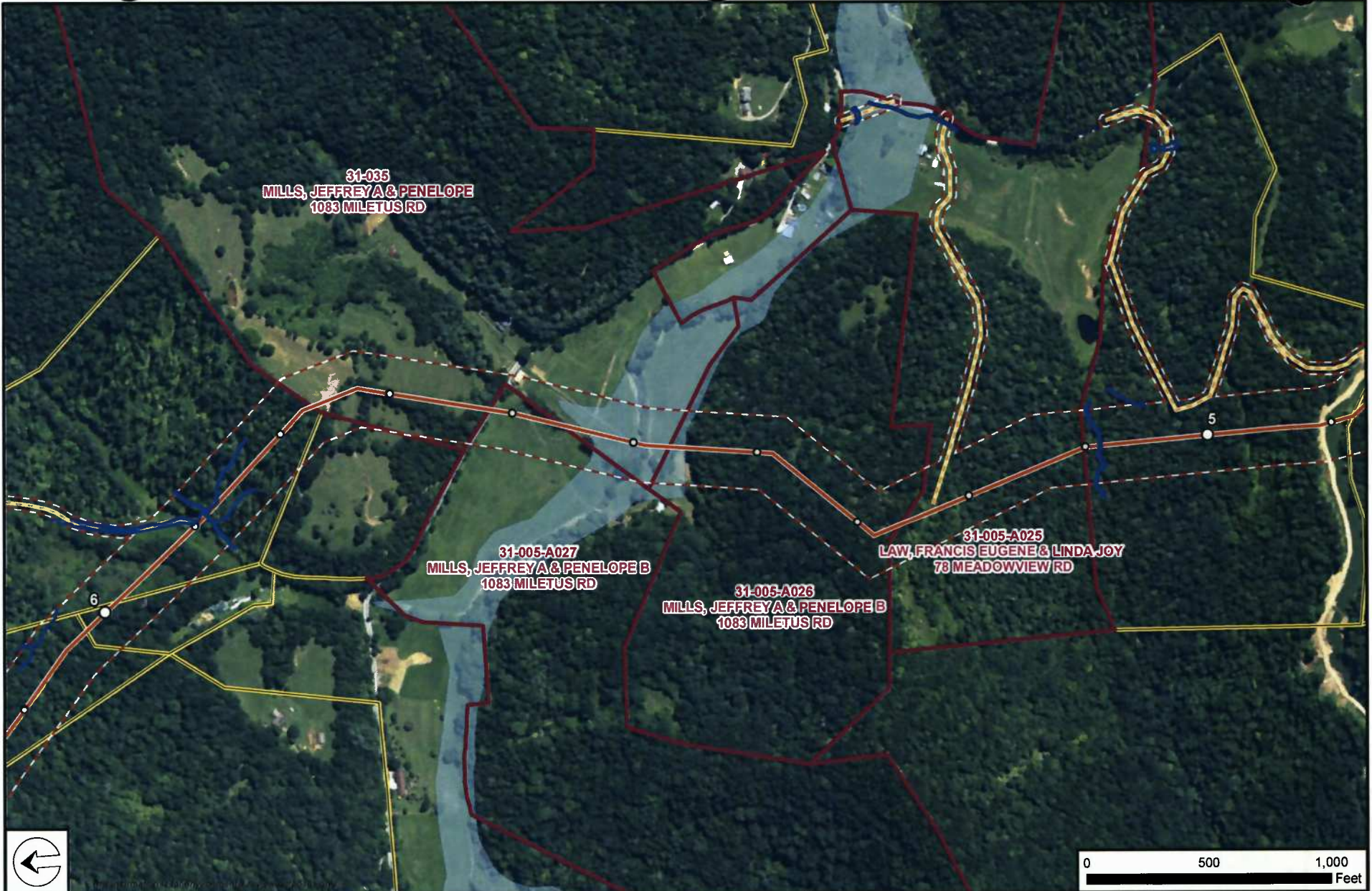


- Mileposts
- Proposed Centerline (TL-635)
- Access Road
- - - Study Area
- ▭ Crossed Parcel Boundary
- ▭ Project Parcels
- ▭ Floodplain
- ▭ Surveyed Waterbody



Supply Header Project
Attachment 4
Floodplain Permit Maps
 Doddridge County Co., West Virginia

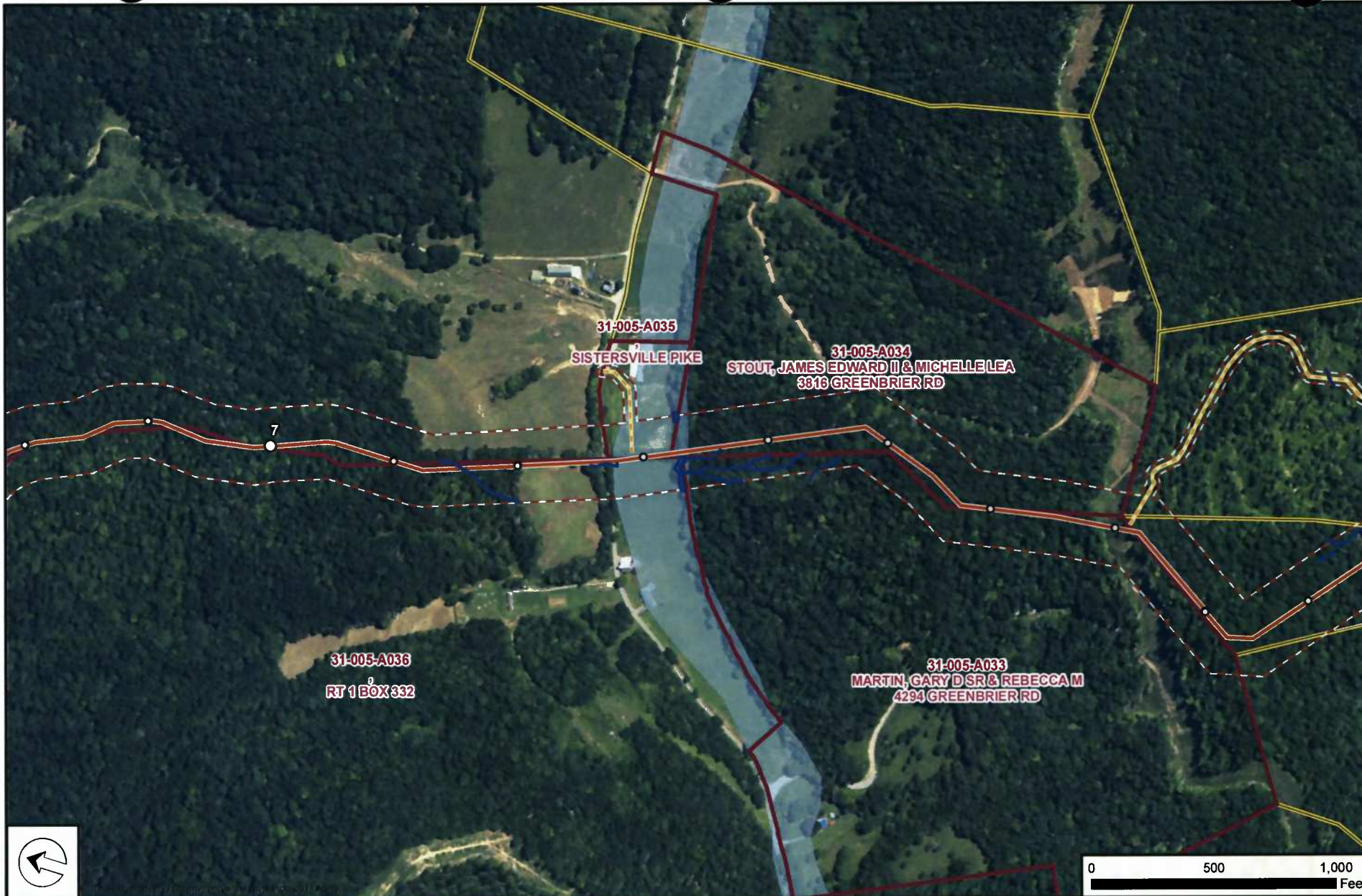




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Attachment 4
Floodplain Permit Maps
 Doddridge County Co., West Virginia

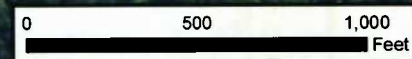
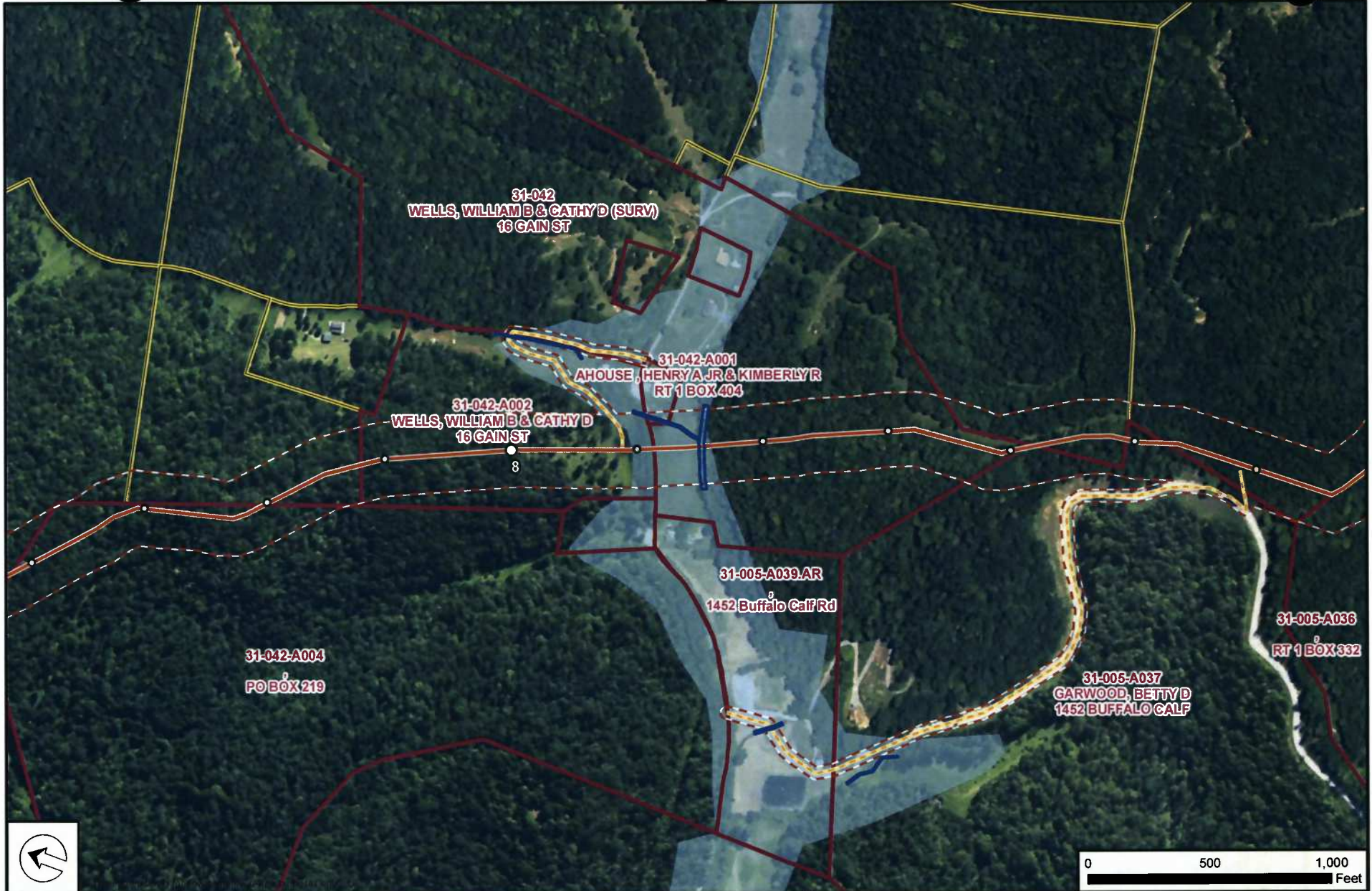




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Supply Header Project
Attachment 4
Floodplain Permit Maps
 Doddridge County Co., West Virginia

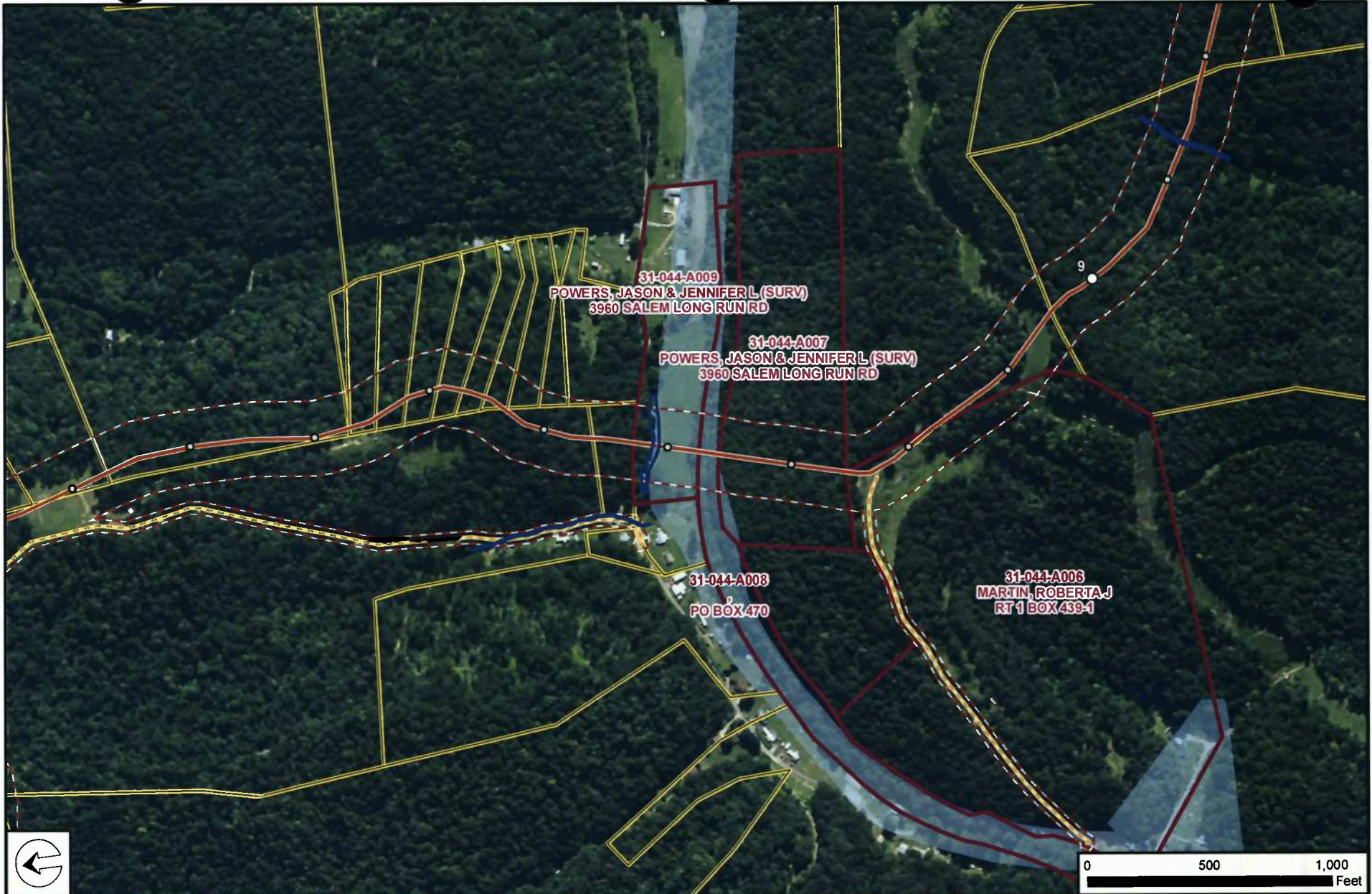




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 Doddridge County Co., West Virginia

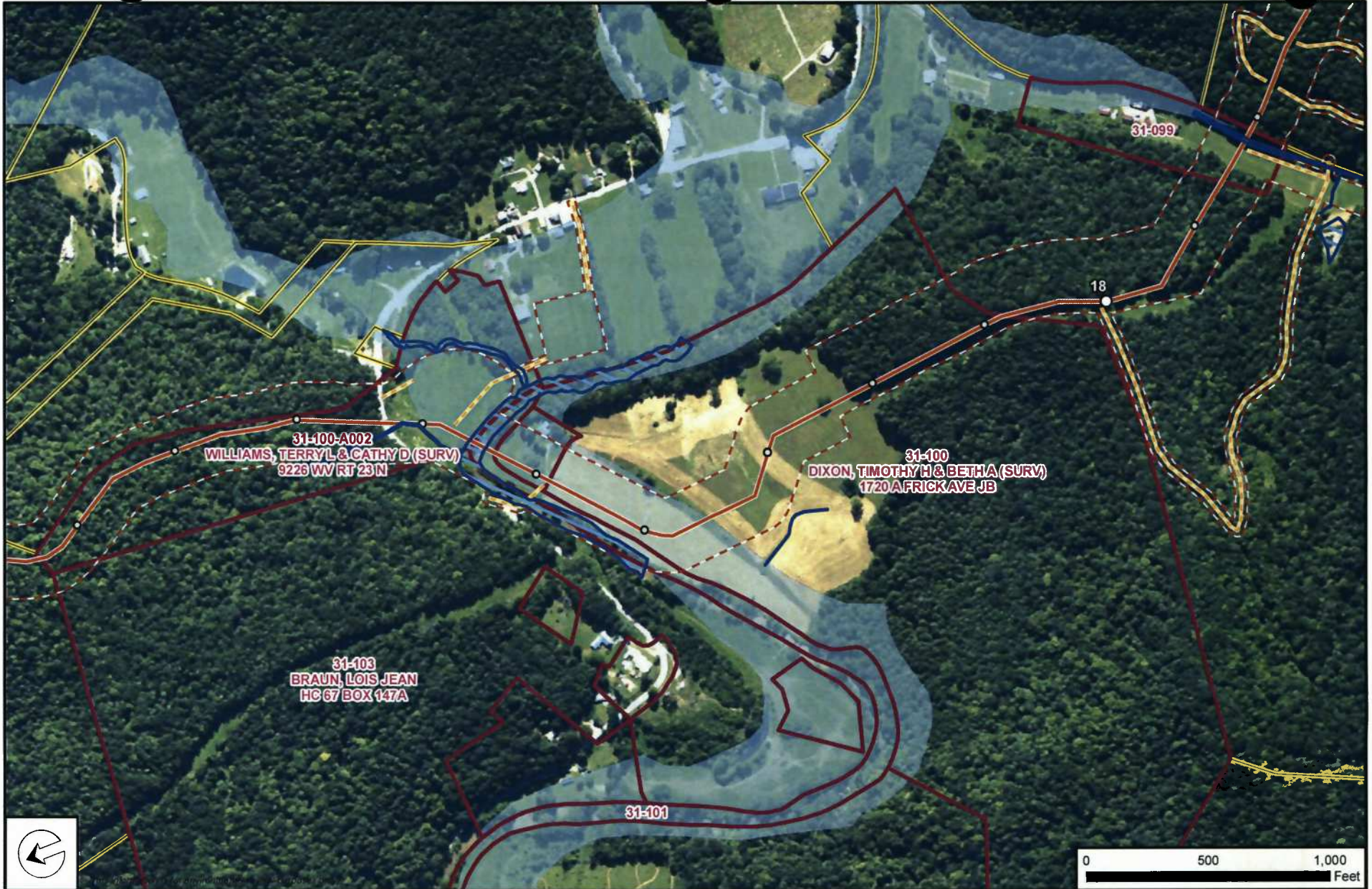




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Attachment 4
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 Doddridge County Co., West Virginia





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- ▭ Project Parcels
- ▭ Floodplain
- ▭ Surveyed Waterbody

Supply Header Project
Attachment 4
Floodplain Permit Maps
 Doddridge County Co., West Virginia



	Parcel ID	Name	Parcel Address	Mailing Address	City, State, Zip		Notes
7	04 10001800000000	Clarence Trent Jr and Deborah E		1054 Wolf Pen Rd	New Milton, WV 26411	Directly Affected	
7	04 10001100020000	Nestor Marshall B Jr & Judith A (Surv)		1 First American Way	Westlake, TX 76262	Adjacent Property	
7	04 10001900000000	Crestwood Marcellus Midstream LLC	RT 25/11 Salem	801 Cherry St	Fort Worth, TX 76102	Adjacent Property	
7	04 10002600000000	Fidler Franklin Kirby	Route 25/11	935 Needmore Rd	Roopville, GA 30170	Adjacent Property	
7	04 90001000000000	Bixos Kristin Loel Rexroad	Route 46	P.O. Box 418	Babb, MT 59411	Adjacent Property	
7	04 90004000000000	Queen D Brent & Donald Crawford	3 Salem RT 46 Rd	Vallen View	Follansbee, WV 26037	Adjacent Property	
7	06 13002000000000	Moran Kenneth P & Ronda J (Surv)	Off RT 25/7	1054 Wolf Pen Rd	New Milton, WV 26411	Adjacent Property	
7	04 15000100000000	Stephen W Trent and Remonda L (SURV)	RR3 Salem Rt 25	14 Millbrook Road	Bridgeport, WV 26330	Directly Affected	
7	04 15000100010000	Trent Clarence Jr	Route 25	22384 Case Ct	Macomb, MI 48044	Adjacent Property	
7	04 15000200010000	Jenkins Larry B Et UX	Route 25	10471 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	
7	04 15000200000000	Freeman Teresa G	25 Salem Rd	10609 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	
7	04 15000300000000	Mcmillan William N	3 Salem Rt 25 Rd	7804 Cherry Orchard Ct	Springfield, VA 22153	Adjacent Property	
7	04 15001000000000	Carder Hobert & Homer G	Route 25	P.O. Box 17	Salem, WV 26426	Adjacent Property	
7	04 15003100000000	Bee Lowell P & Sharon D	RT 27	9844 Meathouse Fork Rd	Salem, WV 26426	Directly Affected	Repeat
7	04 14001700030000	Lynch Donald H	Route 25	9817 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	
7	04 14001700010000	Lynch Roderick T Et Ux	Route 25	9777 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	
7	04 14001700020000	Sembello William J Jr & Phyllis M & William III (Surv)	Route 25	PO Box 110, 733 Karastre	Buckhannon, WV 26201	Adjacent Property	
7	04 14005300000000	Smith Thomas & Kimberly R (Surv)		PO Box 1022, SV-24	Van Nuys, CA 91410	Adjacent Property	
7	04 15002900000000	Lowell P Bee and Sharon D	Route 25/13	9844 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	
7	04 15003200000000	Bee Lowell P & Sharon D	Route 27	9844 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	Repeat
7	04 15001300000000	Bee Lowell P & Sharon D (Surv)	Route 27	9844 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	Repeat
7	04 15002700000000	Bee Lowell P & Sharon D (Surv)	Route 27	9844 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	Repeat
7	04 15002800000000	Bee Lowell P & Sharon D (Surv)	Route 25/13	9844 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	Repeat
7	04 15003000000000	Bee Lowell P & Sharon D (Surv)	Route 25/13	9844 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	Repeat
7	04 15002600000000	Bee Lowell P & Sharon D (Surv)	Route 25/13	9844 Meathouse Fork Rd	Salem, WV 26426	Adjacent Property	Repeat
20	04 70016000000000	Jeffrey A Mills and Penelope B	Off Rt 15	1083 Miletus Rd	Salem, WV 26426	Directly Affected	
20	04 70011000000000	Mills Jeffery A & Penelope B	Route 15	1083 Miletus Rd	Salem, WV 26426	Adjacent Property	Repeat
20	04 70011000100000	Mills Jeffery A Et Ux	Route 15	1083 Miletus Rd	Salem, WV 26426	Adjacent Property	Repeat
20	04 70060000000000	Mills Jeffery A & Penelope B (Surv)	Route 15/11	1083 Miletus Rd	Salem, WV 26426	Adjacent Property	Repeat
20	04 70012000000000	Mills Jeffery A & Penelope B	15 Salem Rd	1083 Miletus Rd	Salem, WV 26426	Directly Affected	Repeat
20	04 70015000100000	Campbell Richard & Chantel (Surv)	Route 15	2550 West Field	Elgin, IL 60123	Adjacent Property	
20	04 70020000300000	Underwood Charles R II & Leslie A (Surv)	1467 Miletus Rd, Salem	PO BOX 85188	Richmond, VA 23286	Adjacent Property	
20	04 70020000200000	Lang Inge M		1501 Miletus Rd	Salem, WV 26426	Adjacent Property	
20	04 70020000400000	Crabbe Quanita M		5712 Goodstone Dr	Raleigh, NC 27616	Adjacent Property	
20	04 70020000000000	Snider Paul Randall & Elaine M Starkey (Surv)	Route 15	1687 Miletus Rd	Salem, WV 26426	Adjacent Property	
20	04 70013000000000	Dolly Stephen E & Barbara S (Surv)	Route 15/3	187 Elder Camp Rd	Salem, WV 26426	Adjacent Property	
20	04 70005000000000	Mutschelknaus, Clarence W Etal	Route 15/11	PO Box 351	Salem, WV 26426	Adjacent Property	
20	04 70012000100000	Nicholson Alan & Michelle (Surv)	Route 15	52 Kearns Rd	Bristol, WV 26426	Adjacent Property	
20	04 70017000000000	McKinney Karen Sue	3 Salem Rt 15 Rd	1352 Miletus Rd.	Salem, WV 26426	Adjacent Property	
20	04 70024000000000	Law Linda Joy	3 Salem Rt 46/2 Rd	78 Meadowview Rd	Salem, WV 26426	Adjacent Property	Repeat
20	04 70023000000000	Hardman Robert O Et UX	Off Rt 15	110 Westwood Ave.	Bridgeport, WV 26330	Adjacent Property	
20	04 70024000000000	Francis Eugene Law and Linda Joy (SURV)	3 Salem Rt 46/2 Rd	78 Meadowview Rd	Salem, WV 26426	Directly Affected	
20	04 70016000000000	Mills Jeffery A & Penelope B	Off Rt 15	1083 Miletus Rd	Salem, WV 26426	Adjacent Property	Repeat
20	04 70017000000000	McKinney Karen Sue	3 Salem Rt 15 Rd		Salem, WV 26426	Adjacent Property	Repeat

32	04 7002500000000	Hnotkow Walter J & Muriel E (Surv)	3 Salem Rt 15 Rd	23 Meadowview Rd	Salem, WV 26426	Adjacent Property	
33	04 7003300000000	Frey Archie Ross	3 Salem Rt 46 2 Rd	31679 Martin Ave.	Dayton, OH 45416	Adjacent Property	
34	04 7003200000000	Mackey Christopher & Nina Nutter	Rt 46 2	RR 4 Box 362 14 Cunningham	Salem, WV 26426	Adjacent Property	
	04 7002300000000	Hardman Robert O Et UX	Off Rt 15		Bridgeport, WV 26330	Adjacent Property	Repeat
35	04 4002100000000	Gary Martin and Rebecca M	Route 17	4294 Greenbrier Rd	Salem, WV 26426	Adjacent Property	
36	04 7000100060000	Clevenger Richard D & Marguerite A	Route 15	3730 Greenbrier Rd	Salem, WV 26426	Adjacent Property	
37	04 4001800010000	Travis Demetrius D		98 Liberty Street	Salem, WV 26426	Adjacent Property	
38	04 4001400000000	Bowen Lola Et Al	Route 17	4502 Greenbrier Rd	Salem, WV 26426	Directly Affected	
39	04 4002200000000	Board of Education		103 Sistersville Pike	West Union, WV 26456	Directly Affected	
40	04 4002300000000	Stout Benjamin T & Lisa A (Surv)	Route 17	4749 Greenbrier Rd	Salem, WV 26426	Directly Affected	
	04 4001500000000	Stout Benjamin Theodore	Route 17	4749 Greenbrier Rd	Salem, WV 26426	Adjacent Property	
	04 4001500010000	Stout Benjamin T & Lisa A (Surv)		4749 Greenbrier Rd	Salem, WV 26426	Adjacent Property	
	04 4002500010000	Stout Benjamin T & Lisa A (Surv)	Route 17	4749 Greenbrier Rd	Salem, WV 26426	Adjacent Property	
41	04 4002400000000	Stout Douglas B Sr & Brenda L (Surv)	Route 17	154 Rhododendron Ln	Buckhannon, WV 26201	Adjacent Property	
42	04 7000040000000	Nicholas Anthony R	Off Rt 15	635 Miletus Rd	Salem, WV 26426	Adjacent Property	
43	04 7000300010000	Nicholas Anthony R	Rt 15	635 Miletus Rd	Salem, WV 26426	Adjacent Property	Repeat
44	04 7000200000000	Meek Charles David	1 Salem Rd	302 Miletus Rd	Salem, WV 26426	Adjacent Property	
45	04 7000100010000	Devinney Michael K & Michelle L (Surv)	1 Salem Rd	22 Miletus Rd	Salem, WV 26426	Adjacent Property	
46	04 7001000500000	Chumley Carolyn	Route 17	4186 Greenbrier Rd	Salem, WV 26426	Adjacent Property	
47	04 4000400020000	William B Wells and Cathy D (SURV)	Route 42	16 Sevin St.	Salem, WV 26426	Directly Affected	
48	04 4000600000000	Plaugher Carolyn M	Route 42	2335 Buffalo Calf Rd	Salem, WV 26426	Adjacent Property	
49	04 4000500000000	Wells William B & Cathy D (Surv)	Route 42		Salem, WV 26426	Adjacent Property	
50	04 4001200010000	Wells William B & Cathy D (Surv)	Route 42		Salem, WV 26426	Adjacent Property	Repeat
51	04 4001000000000	Garwood Betty D	Route 42	1452 Buffalo Calf	Salem, WV 26426	Adjacent Property	
52	04 4001000020000	Garwood Betty D	Route 42	1452 Buffalo Calf	Salem, WV 26426	Directly Affected	Repeat
53	04 4000100010000	Garwood Betty D	Route 42	1452 Buffalo Calf	Salem, WV 26426	Adjacent Property	Repeat
54	04 4000400010000	Mcie Deborah	Route 42	1614 Buffalo Calf Rd	Salem, WV 26426	Adjacent Property	
55	04 4003100000000	Ross Mike Inc		P.O. Box 219	Coalton, WV 26257	Adjacent Property	
56	04 4000100000000	Ross Mike Inc	Route 42	P.O. Box 219	Coalton, WV 26257	Adjacent Property	
57	04 2000900030000	Johnson Anthony B & Chad W		109 Platinum Dr	Bridgeport, WV 26330	Adjacent Property	
58	04 4000400030000	Zinn W Fred & Venita F (Surv)	Route 42	1842 Buffalo Calf Rd	Salem, WV 26426	Adjacent Property	
59	04 4000400050000	Wells William B & Cathy D (Surv)	Route 42/3		Salem, WV 26426	Directly Affected	Repeat
60	04 2000900020000	McCarty William B		1731 Buffalo Calf Rd	Salem, WV 26426	Adjacent Property	
61	04 2000900010000	McCarty William B	Route 42/3	1731 Buffalo Calf Rd	Salem, WV 26426	Adjacent Property	Repeat
62	04 2000900000000	Wells William B & Cathy D (Surv)	Route 42/3		Salem, WV 26426	Adjacent Property	Repeat
63	04 4000400040000	Henry A Ahouse Jr & Kimberly R (SURV)	Route 42	93 Penny Ln	Salem, WV 26426	Directly Affected	
64	04 4001000010000	Betty D Garwood	Route 42	1452 Buffalo Calf	Salem, WV 26426	Adjacent Property	Repeat
65	04 4003000000000	Garwood Betty D	Route 42	1452 Buffalo Calf	Salem, WV 26426	Adjacent Property	Repeat
66	04 4001000020000	Garwood Betty D	Route 42	1452 Buffalo Calf	Salem, WV 26426	Adjacent Property	Repeat
67	04 4001000000000	Garwood Betty D	Route 42	1452 Buffalo Calf	Salem, WV 26426	Directly Affected	Repeat
68	04 4000300000000	Pleasant Hill M P Church	Route 42			Adjacent Property	
69	04 4001400000000	Bowen Lola Et Al	Route 17	4502 Greenbrier Rd	Salem, WV 26426	Adjacent Property	Repeat
70	04 4001400020000	Trent Jason S & Pamela M (Surv)		166 John Trent Rd	Salem, WV 26426	Adjacent Property	
71	03 21000100070000	Jason Powers & Jennifer L (Trickett) (SURV)	Long Run Rd	3960 Salem Long Run Rd	Salem, WV 26426	Directly Affected	
72	03 21000100050000	Jason Powers & Jennifer L (Trickett) (SURV)	Long Run Rd	3960 Salem Long Run Rd	Salem, WV 26426	Adjacent Property	

60	03 21003400000000	WV Railroad Maintenance Authority	Long Run Rd	120 Water Plant Dr	Moorefield, WV 26836	Adjacent Property	
	03 21000100060000	Powers Jason S & Jennifer L (Surv)	Long Run Rd	3960 Salem Long Run Rd	Salem, WV 26426	Adjacent Property	Repeat
61	03 21001000000000	Hammett Samuel & Sherri L (Surv) & Robert E Hammett	Off Long Run Rd	955 Bull Creek	Waverly, WV 26184	Adjacent Property	
	03 20006800000000	Powers Jason S & Jennifer L (Trickett) (Surv)		3960 Salem Long Run Rd	Salem, WV 26426	Directly Affected	Repeat
	03 20006900000000	Powers Jason S & Jennifer L (Trickett) (Surv)		3960 Salem Long Run Rd	Salem, WV 26426	Adjacent Property	Repeat
62	03 20003400020000	Ash Roy D & June L (Surv)		3682 Salem Long Run	Salem, WV 26426	Adjacent Property	
63	03 20001800010000	Mayles Ona Et Al	Long Run Rd	3709 Salem Long Run Rd	Salem, WV 26426	Adjacent Property	
64	03 20006600000000	Chippis Perry W		984 Sunnyside Rd	West Union, WV 26456	Adjacent Property	
65	03 20005400000000	Fox Gilberta Mae	Long Run Rd	180E Main St	Salem, WV 26426	Adjacent Property	
66	03 21000100000000	Wilson Elizabeth F	Long Run Rd	230 Liberty Ave	Clarksburg, WV 26301	Adjacent Property	
67	03 20004400000000	Roberta J Martin	Long Run Rd	38 Hide Away Ln	Salem, WV 26426	Adjacent Property	
	03 20002800000000	Martin Roberta J	Long Run Rd	38 Hide Away Ln	Salem, WV 26426	Directly Affected	Repeat
68	03 20002700000000	Mckinney Jefferey E	Long Run Rd	3 Hide Away Ln	Salem, WV 26426	Directly Affected	Repeat
69	04 30010000000000	Roieson Richard B & Linda (Surv)	Route 42	921 Buffalo Calf Rd	Salem, WV 26426	Adjacent Property	
	03 20006000000000	WV Railroad Maintenance Authority			Moorefield, WV 26836	Adjacent Property	
70	05 18000600000000	Lois Jean Braun	Route 23	9699 WV Route 23	West Union, WV 26456	Directly Affected	
71	05 18004300000000	Timothy H Dixon and Beth A (Surv)	Route 23	114 Leslie Ln	Yorktown, VA 23693	Directly Affected	Repeat
	05 18000600000000	Braun Lois Jean	Route 23	9699 WV Route 23	West Union, WV 26456	Adjacent Property	Repeat
72	05 18001200000000	Dixon Charles H Elaine Sue Timothy H & Beth A (Surv)	Route 23	1848 Green Ave	Clarksburg, WV 26301	Directly Affected	
73	05 18001500000000	Sullivan James SR & Ellen Joan (Surv)	Route 23	91 Antioch Rd	Salem, WV 26426	Directly Affected	
74	05 18002600000000	Wiles Carl (Life)	Route 23	9007 WV Rt 23	Center Point, WV 26339	Adjacent Property	
75	05 18002700000000	Haug Robert M & Dawn C Friello	Route 23	204 Chevront Ave	West Union, WV 26456	Adjacent Property	
76	05 18004900000000	Sandora Ralph Jr	Route 55/8	276 Nazareth Farm Rd	Salem, WV 26426	Adjacent Property	
77	05 18004200000000	Bates Mary Let Al	Route 5/2	10225 WV Rt 23	West Union, WV 26456	Adjacent Property	
78	05 18000400000000	Homer L Moore (Life) & Forest C Moore	Route 23	166 Homer Lee Drive	West Union, WV 26456	Adjacent Property	
79	05 18000700010000	Larry D Law	Route 23	P.O. Box 193	West Union, WV 26456	Adjacent Property	
80	05 12001900000000	Glaspell Mary L	Franks Run Rt 6 Rd	14723 WV Route 23	West Union, WV 26456	Adjacent Property	
	05 12004700010000	Larry D Law	Talkington Fork Rt 1 Rd	P.O. Box 193	West Union, WV 26456	Adjacent Property	Repeat
81	05 18000700020000	WV Dept of Transportation N Division of Highways	Route 23	P.O. Box 2570	Clarksburg, WV 26302	Adjacent Property	
	05 18000700000000	Larry D Law	Route 23	P.O. Box 193	West Union, WV 26456	Directly Affected	Repeat
82	05 18002000000000	Nicholson Barbara J	Route 23	P.O. Box 63	Salem, WV 26426	Adjacent Property	
83	05 18000900000000	Sweeney Charles A	Route 23	208W North Street	Harrisville, WV 26362	Adjacent Property	
84	05 18001800000000	Mckinney Shelby & Alessia A (Surv)	Route 23	1332 Canton Rd	West Union, WV 26456	Adjacent Property	
85	05 18002100000000	Edgell Jeffrey L	Route 23	274 Walnut Creek Rd	Salem, WV 26426	Adjacent Property	
86	05 18002200000000	Baker Mary K	Route 23	1756 WV RT 23	Salem, WV 26426	Adjacent Property	



BHE GT&S, LLC
6603 West Broad Street
Richmond, VA 23230

January 11, 2021

VIA EMAIL

Mr. George Eidel, Flood Plain Manager
Doddridge County Commissioner
101 Church Street, Suite 102
West Union, West Virginia 26456

RE: Notice of Company Name Change
List of Impacted Permits

Dear Mr. Eidel:

BHE GT&S¹ owns, operates, and constructs multiple facilities in West Virginia and Pennsylvania and holds various permits issued by Doddridge County Flood Plain for these facilities. The purpose of this letter is to notify you that Dominion Energy Transmission, Inc. has changed its name to Eastern Gas Transmission and Storage, which was effective on November 1, 2020. Other than the name change, there is no change to the permittee, nor any other information relevant to existing permits that Eastern Gas Transmission and Storage holds. The federal tax identification number will not change as well. Therefore, our understanding is that the name change does not implicate permit transfer or similar provisions.

Going forward, BHE GT&S will submit applications for new and renewal permits/authorizations in its new name. For existing permits, we request that Doddridge County update its records as appropriate. Should you require any additional information concerning this notification or our permits, please contact Frank Canneto at Francisco.Canneto@dominionenergy.com² or at (804) 335-4923.

Permit Number	Crossing Name	Coordinates	FIRM Panel Number
17-491(a)	McElroy Creek	39.39296111 N; -80.63759722W	54017C0045C
17-491(b)	Long Run	39.27676667 N; -80.63356667W	54017C0145C
17-491(c)	Buffalo Calf Fork	39.25943333 N; -80.61926111W	54017C0165C
17-491(d)	Greenbrier Creek	39.24445556 N; -80.61194444 W	54017C0255C
17-491(e)	Buckeye Creek	39.23006389 N; -80.60833333 W	54017C0255C
17-491(f)	Meathouse Fork	39.19233333 N; -80.58305556 W	54017C0045C

¹ As of November 1, 2020, Dominion Energy, Inc. sold certain companies, including Dominion Energy Transmission, Inc., to Berkshire Hathaway Energy's Pipeline Group and will be operated as a standalone subsidiary: BHE GT&S, LLC. Additionally, Dominion Energy Transmission, Inc. has changed its name to Eastern Gas Transmission and Storage, Inc.

January 11, 2021
Mr. Eidel

Please send any correspondence to the following address:

Frank Canneto
BHE GT&S
120 Tredegar Street
Richmond, Virginia 23219

Thank you for all your help in this matter.

Sincerely,

A handwritten signature in black ink that reads "Spencer Trichell". The signature is written in a cursive style with a large, stylized initial 'S'.

Spencer Trichell
Manager

⁽²⁾ Please note that during a transition period, employees of the BHE GT&S unit will continue to utilize a Dominion Energy email address; however, BHE GT&S is not affiliated with Dominion Energy in any way. Any inferences with respect to the BHE GT&S use of a Dominion Energy email address should be disregarded, as the sender is no longer affiliated with Dominion Energy.

USDA Forest Service
George Washington & Jefferson National Forests
5162 Valleypointe Parkway
Roanoke, VA 24019

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More information about the USDA Forest Service ACP Record of Decision can be found at:
<https://www.fs.usda.gov/detail/gwj/landmanagement/projects/?cid=stelprd3824603>

Pat Heaster
Doddridge County
118 East Court St
West Union, WV 26456

2645681262 CDD1





ATLANTIC COAST PIPELINE PROJECT: USDA FOREST SERVICE FINAL RECORD OF DECISION

The USDA Forest Service has released a final Record of Decision (ROD) for (1) authorization of a special use permit to Atlantic Coast Pipeline (ACP) for the use of National Forest System (NFS) land to construct, operate, maintain and eventually decommission a natural gas pipeline on the Monongahela National Forest (MNF) and George Washington National Forest (GWNF) and (2) approval of project-specific amendments to the MNF and GWNF Land and Resource Management Plans associated with implementing the ACP. As an interested or affected party, the Forest Service is providing you with notice of the availability of the ROD for the ACP Project.

This final decision is specific to National Forest System (NFS) lands within the MNF and GWNF. The decision is based on the evaluation of potential effects of the construction, operation, and maintenance of 21 miles (5.1 miles across the MNF and 15.9 miles across the GWNF) of a proposed 42-inch diameter interstate natural gas pipeline as disclosed in the ACP Project and Supply Header Project Final Environmental Impact Statement (FEIS). The FEIS documents the impacts of the proposed ACP Project over its entire 604.5-mile route including the portions on NFS lands. The Federal Energy Regulatory Commission (FERC) was the lead agency for preparing the FEIS and is responsible for deciding whether to authorize the construction, operation, and maintenance of the ACP Project and Supply Header Project in its entirety. The FERC's FEIS can be found at <https://www.ferc.gov/docs-filing/elibrary.asp> (under Documents & Filings, ELibrary, General Search, Docket Number: CP15-554).

The Forest Service published a draft decision, and initiated an objection period as outlined in the regulations at 36 CFR Part 218 on July 21, 2017 with publication of the legal notice in *The Milwaukee Journal/Sentinel* and the *Atlanta Journal-Constitution*, the newspapers of record for decisions made by the Eastern Region and Southern Region Regional Foresters and the subject national forests. Notices were also published in the *Inter-Mountain* and *The Roanoke Times* for a wider notification. The objection period concluded and the Forest Service has responded to objections that were filed.



Forest Service

Doddridge County Office of
Emergency Management / Floodplain Management
105 Court Street, Suite 3
West Union, WV 26456

Mr. George Eidel,

After many attempts to contact you in person and on the telephone, the latest being this morning, Monday, November 27, 2017; and not receiving a return call; I felt it best to inform you that I wish to retain my rights to seek legal counsel after viewing the documents pertaining to Permit # 17-491.

Although my letter stated that I could "See attached sheet" in a few different places in parentheses, there were **NO** attached sheets with my letter. Therefore, I wish to be sent copies of the documents mentioned in the letter, as soon as possible, to my mailing address which is :

Demetrius D. Travis
98 Liberty Street
Salem, WV 26426

I will be awaiting your response in the near future.

Thank you, in advance, for your cooperation in this matter.

A handwritten signature in black ink, appearing to read "Demetrius D. Travis". The signature is stylized with a large initial "D" and a long horizontal stroke.

Demetrius D. Travis

7017 1450 0001 5871 8199

Doddridge County Office of
Emergency Management/Floodplain Management
105 Court Street Suite 3
Tel 304-873-1343
doddridgecountyfpm@gmail.com



NOVEMBER 28, 2017

Mr. Travis

98 Liberty Street, Salem WV 26426

Dear Mr. Travis,

I sincerely apologize for missing you last week. I was out of the office for meetings and you did not leave a note. I received your phone message however you did not leave a number where you could be reached. In some of the mailouts that my office sent the list of crossings did not get in, I have enclosed a list of crossing for the Atlantic Coast, Header Supply Pipeline Project, as well as a map of the county showing where the pipeline will be going. If you have any other questions please do not hesitate to contact our office.

Warm regards,

A handwritten signature in black ink, appearing to read "George C. Eidel".

George C. Eidel, CFM

DODDRIDGE COUNTY EMERGENCY MANAGER/FLOODPLAIN MANAGER

TRAVIS
98 Liberty Street
Salem WV 26426



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RETURN RECEIPT
REQUESTED

Dodderidge County Office of
Emergency Management / Floodplain Management
105 Court Street, Suite 3
West Union WV 26456

From: Lauren Zielke
Sent: Tuesday, March 13, 2018 8:08 AM
To: 'George Eidel' <doddridgecountyfpm@gmail.com>
Cc: Staci L Rogge (Staci.L.Rogge@dominionenergy.com) <Staci.L.Rogge@dominionenergy.com>
Subject: RE: SHP Project

George,

In response to your December 14, 2017 email below, attached are copies of permits and/or approvals for the Supply Header Project issued by federal and state regulatory agencies, as applicable. We understand that Doddridge County has reviewed and approved the Floodplain Development Permit application submitted by Atlantic Coast Pipeline, LLC (Atlantic) on October 20, 2017, contingent upon the County's receipt of copies of permits and/or approvals required by the following agencies:

Agency	Permit/Approval
U.S. Army Corp of Engineers	Department of the Army Permit under Section 404 of the Clean Water Act
US Fish and Wildlife Services	Consultation under Section 7 of the Endangered Species Act (Biological Opinion)
WV Department of Natural Resources	No approval required
WV State Department of Environmental Protection, Division of Water and Waste Management	General Permit for Stormwater Associated with Oil and Gas Related Construction Activities, General Permit No. WV0116815
WV State Historic & Preservation Office	Consultation under Section 106 of the National Historic Preservation Act
Office of Land and Stream	Stream Activity Permit (Joint Application with the Public Lands Corporation)

On behalf of Atlantic, we appreciate the opportunity to coordinate with you on this Project. We trust that the attached documents complete all requirements for the County to issue a final Floodplain Development Permit to Atlantic. Please let us know if you have any questions or concerns.

Sincerely,

Lauren Zielke, PMP

ERM
 1701 Golf Road | Suite 1-700 | Rolling Meadows, IL 60008
 T +1 847-258-8941 | M 224-595-4906
 E lauren.zielke@erm.com | W www.erm.com



ERM *The business of sustainability*

Cultural Resources Report Submittals for the Supply Header Project in West Virginia

Report	Report Submitted to SHPO	Report Filed with FERC	SHPO Comments on Report	SHPO Comments Filed with FERC
Supply Header Project, Wetzel, Tyler, Doddridge, Harrison, and Ritchie Counties, West Virginia: Phase I Cultural Resources Report (Report Revision 1)	1/26/17	2/24/17	3/1/17	3/10/17
Supply Header Project, Wetzel, Tyler, Doddridge, Harrison, and Ritchie Counties, West Virginia: Phase I Cultural Resources Report, Addendum 1	9/29/16	9/30/16	10/31/16	11/16/16
Phase II Investigations for the Supply Header Project: Site 46DO89, Doddridge County, West Virginia	3/7/17	3/10/17	4/13/17	5/5/17
Supply Header Project, Wetzel, Tyler, Doddridge, Harrison, and Ritchie Counties, West Virginia: Phase I Cultural Resources Report, Addendum 2	7/24/17	7/28/17	8/17/17	9/8/17
Supply Header Project, Data Recovery Research Design	7/25/17	7/28/17	8/22/17	9/8/17
Supply Header Project, Wetzel, Tyler, Doddridge, Harrison, and Ritchie Counties, West Virginia, Phase I Cultural Resources Survey Report, Addendum 3	10/19/17	10/20/17	11/27/17	1/3/18

**Supply Header Project, Wetzel, Tyler, Doddridge, Harrison, and Ritchie Counties, West
Virginia: Phase I Cultural Resources Report (Report Revision 1)**



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

March 1, 2017

Mr. Robert M. Bisha
Technical Advisor, Supply Header Project
Dominion Resources Services, Inc.
5000 Dominion Blvd.
Glen Allen, Virginia 23060

MAR15 18 2:03PM

RE: Supply Header Project
FR#: 15-99-MULTI-7 and 15-99-MULTI-8

Dear Mr. Bisha:

We have reviewed the revised draft Phase I Cultural Resource Survey Report dated May 2016 that Natural Resource Group prepared for the aforementioned project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments. MAR15 18 2:03PM

We understand a remaining 1.4 miles of the pipeline route will be surveyed once permission to access those properties is obtained. This may result in further documentation of archaeological sites, architectural properties, and/or cemeteries within an addendum report. Thus, our comments below assume additional documentation will be submitted in the near future for the undertaking. We will provide additional comments upon receipt of that information.

Archaeological Resources:

Thank you for submitting a revised draft report. Upon its review, we find that it addresses the comments made in our February 10, 2016 letter. Specifically, the report now includes maps that indicate the level of survey effort that was conducted throughout the APE as well as an expanded discussion of the survey results. As stated in our February 10 letter, we are in concurrence with recommendations made regarding the archaeological resources that were discovered within the proposed project's APE. We concur that sites 46DO91 and 46TY73 are not eligible for inclusion in the National Register of Historic Places. We also concur that 46DO89 should undergo a Phase II National Register evaluation if it cannot be avoided by the proposed project. With the exception of the areas that have not been surveyed and provided that 46DO89 is avoided, we concur that the proposed project, as currently designed, will have no effect on archaeological historic properties.

Architectural Resources:

Thank you for submitting the revised report, it addressed a number of concerns mentioned in our April 18, 2016 letter. We have reviewed the submitted information and concur with NRG's recommendations that the following properties located within the undertaking's area of potential effects are *not eligible* for or included in the National Register of Historic Places because they have been significantly modified

March 1, 2017
Mr. R. Bisha
FR# 15-99-MULTI-7 and 15-99-MULTI-8
Page 2

over the years (i.e., installation of synthetic materials like vinyl siding and windows), which has reduced their historic integrity.

FN-2	FN-12	FN-20	FN-32
FN-3	FN-13	FN-21	HS-0884 (FN-1)
FN-4	FN-14	FN-22	WZ-0032
FN-5	FN-15	FN-23	WZ-0033
FN-8	FN-16	FN-24	WZ-0034
FN-9	FN-17	FN-26	WZ-0035 (FN-25)
FN-10	FN-18	FN-27	
FN-11	FN-19	FN-28	

The report indicated that the property identified as the former Greenbrier School (FN-7) on Greenbrier Road in Doddridge County, has recently been *demolished*.

We concur with NRG's recommendations that the Randolph House (FN-6) is *eligible* for inclusion in the National Register under Criteria B and C due to its association with the Randolph family and architecture, respectively. We also concur that the B&O Short Line-Fishing Creek Spur (WZ-0025-0010/WZ-0036) is *eligible* for inclusion in the National Register under Criterion A for association with transportation and commerce in the region.

We concur with NRG's recommendations that the proposed undertaking will have no adverse effect to the Randolph House and the B&O Short Line. As the report noted, the Randolph property has experienced significant reduction in historic integrity of setting due to the demolition and deterioration of original structures other than the brick home, and construction of newer agricultural structures. In our opinion, the proposed pipeline will not introduce any visual elements that might diminish the property's setting because that setting has already been significantly lost. Furthermore, the line installation will be below surface level. Regarding the Short Line, the project will likely introduce viewshed changes along a short stretch of the Line's route at the crossing near the Allegheny Wood Products' Jacksonburg Sawmill and Lumber Yard along State Highway 20 in Wetzel County. Therefore, it will impose alterations to the setting; however, this change will be small when contextualized by the Line's entire route length. Therefore, it is our opinion the undertaking, as it is currently designed, will have *no adverse effect* on the B&O Short Line or the Randolph property.

Cemetery Resources:

We remain in concurrence with the determination stated in our February 10, 2016 letter. The Victory Baptist Church Cemetery (46-DO-90), in our opinion, is *not eligible* for inclusion in the National Register of Historic Places. It is also our opinion that the Knights of Pythias Cemetery (46-WZ-140) is *not eligible* for inclusion in the National Register of Historic Places under Criteria A, B, C, or D, nor is it eligible under Criteria Considerations C or D. Nevertheless, it is our understanding that these two cemeteries will be avoided by the proposed pipeline.

We appreciate the opportunity to be of service. *If you have questions regarding our comments or the*

March 1, 2017

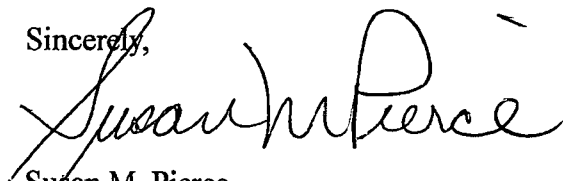
Mr. R. Bisha

FR# 15-99-MULTI-7 and 15-99-MULTI-8

Page 3

Section 106 process, please contact Lora A. Lamarre-DeMott, Senior Archaeologist, or Mitchell K. Schaefer, Structural Historian, at (304) 558-0240.

Sincerely,

A handwritten signature in cursive script that reads "Susan M. Pierce". The signature is written in black ink and is positioned above the typed name.

Susan M. Pierce

Deputy State Historic Preservation Officer

SMP/LLD/MKS

**Supply Header Project, Wetzel, Tyler, Doddridge, Harrison, and Ritchie Counties, West
Virginia: Phase I Cultural Resources Report, Addendum 1**



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

October 31, 2016

Mr. Robert M. Bisha
Technical Advisor, Supply Header Project
Dominion Resources Services, Inc.
5000 Dominion Blvd.
Glen Allen, VA 23060

RE: Supply Header Project
FR#: 15-99-MULTI-5

Dear Mr. Bisha:

We have reviewed the Phase I Cultural Resource Survey Report Addendum 1 that was submitted for the above referenced project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

According to the report, cultural resource survey was recently completed in two pipeline corridor segments totaling 0.9 miles that were not included in the previous investigation. The current survey also included one possible reroute, 26 access roads, one ground bed, and one water impoundment area. One additional 0.5-mile segment will be surveyed once access has been granted. Our comments below pertain only to the properties surveyed for this 0.9-mile corridor and do not apply to other sections of the proposed pipeline undertaking.

Archaeological Resources:

Systematic survey of the addendum area included pedestrian reconnaissance and shovel probe excavation. Much of the addendum area was observed to be on sloped terrain or previously disturbed. When shovel probes could be excavated, they were negative for cultural materials. Because no archaeological sites were identified, we concur that the proposed addendum area will have no effect on archaeological historic properties.

Architectural Resources:

We have reviewed the submitted report and concur with your recommendations that there are no properties eligible for or included in the National Register of Historic Places located within areas surveyed for the above-mentioned 0.9 miles of pipeline corridor. We understand that further survey work will be completed and submitted to our office for review. We will provide additional comments upon receipt of that information.

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, or Mitchell K. Schaefer, Structural Historian, at (304) 558-0240.*

Sincerely,

Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/LLD/MKS

**Phase II Investigations for the Supply Header Project: Site 46DO89, Doddridge County,
West Virginia**



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

April 13, 2017

Mr. Robert M. Bisha
Technical Advisor, Supply Header Project
Dominion Resources Services, Inc.
5000 Dominion Blvd.
Glen Allen, Virginia 23060

RE: Supply Header Project
FR#: 15-99-MULTI-9

Dear Mr. Bisha:

We have reviewed the draft report presenting the results of Phase II archaeological investigations at site 46DO89 that was prepared by ERM for the aforementioned project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

According to the report, Phase II investigations at 46DO89 focused on the mechanical removal of the plowzone and the excavation of a sample of features that were identified. A total of 17 trenches were placed in areas of the site that exhibited, during the Phase I survey, to have higher artifact densities, diagnostic artifacts or geomorphologically stable surfaces. This resulted in the discovery of 80 potential prehistoric and historic period subsurface features. Of the 23 features that were excavated, 11 date to the prehistoric period, nine to the historic period, and two were determined to be non-cultural in origin. The age and function of the final excavated feature could not be determined. A total of 560 prehistoric artifacts were recovered, including diagnostic prehistoric tools dating to a number of prehistoric periods, grit and limestone tempered pottery, ground stone tools and lithic debitage. The historic period assemblage is comprised of 75 artifacts and includes metal nails, colorless glass, stoneware, ironstone, and plain and transfer print whiteware.

Data recovered during the excavations indicate the area was occupied a number of times from the Early Archaic through the Middle Woodland period and possibly into the Late Woodland period. Prehistoric occupations appear to be small, possibly seasonal, base camps related to resource procurement such as nuts or lithic materials. The excavated prehistoric features were determined to be large and small basin-shaped pits that produced diagnostic artifacts and charcoal. Other materials will likely be retrieved from flotation samples. While possible post molds identified at the site may be associated with the historic period occupation, patterning of the prehistoric features may be suggestive of houses. Based on the data recovered during the Phase II investigations, we concur that the prehistoric component contains significant information about a number of prehistoric periods and that 46DO89 is eligible for inclusion in the National Register of Historic Places.

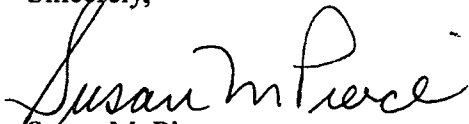
Mr. Bisha
FR# 15-99-MULTI-9
April 13, 2017
Page 2

The historic component of 46DO89 is represented by nine excavated features and a light scatter of mainly domestic artifacts associated with an early to mid-twentieth century farm. A number of other possible features exposed during the Phase II, including the possible post molds, also likely date to the historic period farm. Five of the historic period features appear to be associated with the small-scale production of sorghum syrup, while others are likely the remains of foundation piers for a possible barn. The report argues that the historic component should be considered non-contributing to the eligibility of 46DO89 because it appears to lack intact midden deposits and artifact-rich features. However, sorghum production and the development of modern farming has not been documented or explored in West Virginia. As a result, we do not concur that the historic component is a non-contributing element to the overall eligibility of 46DO89.

In conclusion, if 46DO89 cannot be avoided by the proposed project, it is our opinion that both the prehistoric and historic components should be subject to data recovery excavations in order to mitigate the resulting adverse effects. Please notify this office in writing of any proposed avoidance measures or submit a data recovery plan and draft Memorandum of Agreement (MOA) for our review. Finally, because we are not requesting changes to the draft Phase II report, please submit a CD containing the report PDF and updated shapefiles for the site. We will provide further comment upon receipt of the requested materials.

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

**Supply Header Project, Wetzel, Tyler, Doddridge, Harrison, and Ritchie Counties, West
Virginia: Phase I Cultural Resources Report, Addendum 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

August 17, 2017

Mr. Robert M. Bisha
Technical Advisor, Supply Header Project
Dominion Resources Services, Inc.
5000 Dominion Blvd.
Glen Allen, VA 23060

RE: Supply Header Project
FR#: 15-99-MULTI-11

Dear Mr. Bisha:

We have reviewed the Phase I Cultural Resource Survey Report Addendum 2 that was submitted for the above referenced project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

According to the report, cultural resource survey was recently completed in 0.8-acre tract that will be used as a ground bed for the proposed Supply Header Project. The current survey also included a corridor that will be used to access the ground bed. Our comments below pertain only to the properties surveyed for this addendum and do not apply to other sections of the proposed pipeline undertaking.

Systematic survey of the addendum area included pedestrian reconnaissance and shovel probe excavation. The addendum area is located on an eroded hillside that has been graded in places. One shovel probe was excavated, which confirmed the disturbed and eroded nature of the landform. No archaeological sites or structural resources 50 years or older were identified. Consequently, we concur that the proposed Addendum 2 area will have no effect on historic properties and that no further cultural resource investigations are warranted.

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, or Mitchell K. Schaefer, Structural Historian, at (304) 558-0240.*

Sincerely,

Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/LLD

Supply Header Project, Data Recovery Research Design



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

August 22, 2017

Mr. Robert M. Bisha
Technical Advisor, Atlantic Coast Pipeline
Dominion Energy Services, Inc.
5000 Dominion Blvd.
Glen Allen, VA 23060

RE: Supply Header Project
Data Recovery Research Design – Site 46DO89
FR# 15-99-MULTI-10

Dear Mr. Bisha:

We have reviewed the Data Recovery Research Design for Site 46DO89. As required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, U.S. 36 CFR § 800: "Protection of Historic Properties," we submit our comments.

The data recovery plan proposes to mechanically strip the plowzone from the remaining portions of site 46DO89 within the pipeline construction zone that were not investigated during the Phase II field work. All identified cultural features will be documented and excavated. In addition, flotation samples will be taken from feature contexts and processed to recover additional data. Laboratory methods will include an examination of the historic and prehistoric period artifacts recovered from the site, including prehistoric lithic artifacts as well as any ceramic, faunal and floral samples recovered. Charcoal or other appropriate samples, if present, will be taken from all cultural features and processed for radiocarbon dating. The data recovered from 46DO89 will be used to address a variety of research questions such as subsistence, seasonality, site-structure and function and settlement organization of the prehistoric occupations and sorghum production in West Virginia for the historic component.

In order to expedite the review process and allow for construction to proceed as soon as possible, a management summary will be submitted for our review within 30 days of the completion of field work. Our concurrence with the findings presented in the management summaries will serve as notification to FERC that the archaeological fieldwork has been successfully completed. The complete results of the data recovery excavation will be presented in a draft mitigation report that will be submitted for our review after all analyses are complete. All review comments will be incorporated into a final mitigation report

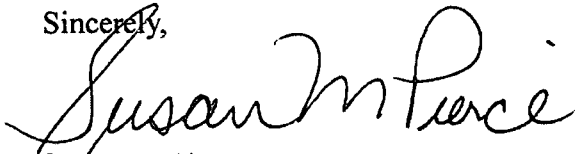
If this has not occurred already, the Advisory Council on Historic Preservation (ACHP) will need to be notified of the adverse effect to site 46DO89 and invited to participate in consultation. Once a draft

August 22, 2017
Mr. Bisha
FR # 15-99-MULTI-10
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Memorandum of Agreement (MOA) has been prepared that addresses the adverse effect to site 46DO89, please submit it for our review. The draft MOA and data recovery plan will also need to be submitted to the ACHP. We will provide further comment upon receipt of the draft MOA.

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,

A handwritten signature in cursive script that reads "Susan M. Pierce". The signature is written in black ink and is positioned above the typed name and title.

Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/LLD

**Supply Header Project, Wetzel, Tyler, Doddridge, Harrison, and Ritchie Counties, West
Virginia, Phase I Cultural Resources Survey Report, Addendum 3**



November 27, 2017

The Culture Center
1900 Kanawha Blvd., E.
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Randall Reid-Smith, Commissioner

Phone 304.558.0220 • www.wvculture.org
Fax 304.558.2779 • TDD 304.558.3562

EEO/AA Employer

Mr. Richard B. Gangle
Environmental Manager
Supply Header Project
Dominion Energy Services, Inc.
5000 Dominion Blvd.
Glen Allen, Virginia 23060

RE: Supply Header Project, Addendum 3 Report
Doddridge County, West Virginia
FR: 15-99-MULTI-12

Dear Mr. Gangle:

We have reviewed the revised Phase I Cultural Resource Survey Report – Addendum 3 that ERM prepared for the aforementioned project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: “Protection of Historic Properties,” we submit our comments.

The submitted report presents the results of cultural resource survey within the remaining 0.5-mile-long segment of the TL-635 Loop pipeline corridor. It is our understanding that this represents the completion of all cultural resources studies associated with this project. The surveyed area encompasses a total of 18.2 acres.

Archaeological Resources:

Systematic survey of the remaining project area included pedestrian reconnaissance and shovel probe excavation. Most of this area was observed to consist of steep terrain with severely eroded soils. A total of nine shovel probes were excavated at the Buckeye Creek crossing. No archaeological sites were identified. Consequently, we concur that construction of the proposed project within this area will have no effect on archaeological historic properties and that no further cultural resource investigations are warranted.

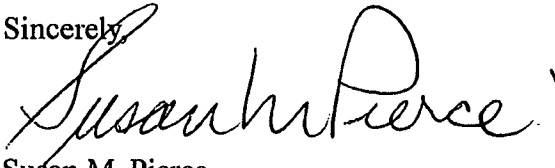
Architectural Resources:

The report indicates that one (1) additional architectural property was documented within the pipeline’s area of potential effects within Doddridge County. We concur with your recommendation that the farmstead located at 1083 Miletus Road (DO-0261) is *not eligible* for inclusion in the National Register of Historic Places. The existing buildings have significantly deteriorated over time to the extent that very little integrity remains for the property. No further consultation is necessary regarding architectural resources within the project area described within Addendum 3; however, we ask that you contact our office if your project should change. We anticipate receiving additional addendum reports for the aforementioned undertaking in the near future if more resources are identified during survey work. We will provide further comments at that time.

November 27, 2017
Mr. R. Gangle
FR: 15-99-MULTI-12
Page 2

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, or Mitchell K. Schaefer, Structural Historian, at (304) 558-0240.*

Sincerely,

A handwritten signature in cursive script that reads "Susan M. Pierce". The signature is written in black ink and is positioned above the printed name and title.

Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/LLD/MKS



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701-2070

February 14, 2018

Regulatory Division
Energy Resources Branch
LRH-2014-01110-OHR

NATIONWIDE PERMIT NO. 12 VERIFICATION

Leslie Hartz
Dominion Energy Transmission, Inc.
707 W Main Street
Richmond, Virginia 23219

MAR15 10 2:03PM

Dear Mr. Hartz:

I refer to the Dominion Energy Transmission, Inc. request received on September 16, 2015 with an updated pre-construction notification (PCN) information received on September 7, 2017 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 Supply Header Project (SHP). The proposed project will involve the construction of a 37.5-mile 30-inch natural gas pipeline and pipeline loop in Pennsylvania and West Virginia. The SHP will cross the United States Army Corps of Engineers (Corps) Pittsburgh and Huntington Districts regulatory boundaries. Approximately 33.0-miles of the proposed pipeline, approximately 28.3-miles of proposed access roads, including four valve sites, one pig launcher, one metering and regulation site, and one compressor station upgrade are located within the Huntington District's regulatory boundary in Doddridge, Tyler and Wetzel Counties, West Virginia. The project has been assigned the following file number: LRH-2014-01110-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.

Nationwide Permit 12

This project 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 this project will involve activities subject to the requirements of Section 404.

In the submitted PCN information, you have requested a DA authorization to temporarily discharge dredged and/or fill material into 2,477 linear feet (0.08 acre) of ephemeral streams, 1,153 linear feet (0.11 acre) of intermittent streams, 8,828 linear feet (2.55 acres) of perennial streams, 0.34 acre of palustrine emergent (PEM) wetlands, 0.09 acre of palustrine scrub-shrub (PSS) wetland and 0.50 acre of palustrine-forested (PFO) wetland and the proposed permanent discharge of dredged and/or fill material into 954 linear feet (0.02 acre) of ephemeral streams, 241 linear feet (0.02 acre) of intermittent streams, 2,664 linear feet (0.63 acre) of perennial streams, 0.21 acre of PEM wetland and 0.07 acre of PFO wetland at 61 separate and distant locations. There are 60 single and complete linear crossings in the portion of the proposed project located within the Huntington District's regulatory boundary, and one compressor station upgrade, as shown on the enclosed table titled *Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the U.S. Army Corps of Engineers – Huntington District*.

Based on the provided information, it has been determined the proposed discharge of dredged and/or fill material into waters of the U.S. at each single and complete project location associated with the construction of the SHP meets the criteria for Nationwide Permit (NWP) 12 (enclosed) 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, the enclosed special conditions, and the general Section 401 Water Quality Certification issued by the West Virginia Department of Environmental Protection. A copy of this NWP can be found on our website at: <http://www.lrh.usace.army.mil/Missions/Regulatory.aspx>. A copy of this NWP and this letter should be supplied to your project engineer responsible for project activities and a copy kept at the site during project work. 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.

Upon completion of the work, the enclosed certification must be signed and returned to this office. If you have any questions concerning the above, please contact Adam Fannin of the Energy Resource Branch at (304) 399-6901 or by email at adam.e.fannin@usace.army.mil.

Sincerely,

Teresa Spagna
Chief, North Branch

Enclosures
cc:

Richard Gangle
Dominion Resources Services, Inc.
5000 Dominion Boulevard
Glenn Allen, Virginia 23060

Staci Rogge
Dominion Resources Services, Inc.
5000 Dominion Boulevard
Glenn Allen, Virginia 23060

Kevin Bowman
Federal Energy Regulatory Commission
888 First St. NE
Washington, DC 20426

Mr. Josh Shaffer
U.S. Army Corps of Engineers
Pittsburgh District
1000 Liberty Avenue
Pittsburgh, Pennsylvania 15222

Nationwide Permit 12 Verification Special Conditions
Dominion Transmission Inc. Supply Header Project
LRH-2014-01110-OHR

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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 *Supply Header Project Overview Map* and the aquatic resources identified in the enclosed table titled *Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the 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.

The permittee must complete wetland and stream investigations on all desktop evaluated aquatic resources, as identified in the enclosed table titled *Single and Complete Crossings of Waters of the U.S. for the Supply Header Project* within the U.S. Army Corps of Engineers – Huntington District, once access is granted. The permittee must submit to the Huntington District the information gathered during the field reconnaissance, including data forms, photographs, impact analysis and mitigation requirements, prior to the discharge of dredged and/or fill material into these desktop evaluated resources. If additional mitigation is necessary, the permittee will purchase the required mitigation credits prior to the discharge of dredged and/or fill material into waters of the United States.

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 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 the avoided wetlands, streams and riparian upland buffers are adequately flagged and/or staked before construction activities to

Nationwide Permit 12 Verification Special Conditions
Dominion Transmission Inc. Supply Header Project
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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.
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 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 will be removed and stockpiled separately from other excavated material. This native material must be reused in restoration of the wetland.
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 with the Right of Way (ROW), the ROW as it enters the wetland, and the ROW as it exits the wetland will be obtained by the permittee. All photographs are to be geo-referenced and identified to correspond with aquatic feature names as described in the enclosed table titled *Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the 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

**Nationwide Permit 12 Verification Special Conditions
 Dominion Transmission Inc. Supply Header Project
 LRH-2014-01110-OHR**

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 permittee will purchase stream and wetland mitigation credits from multiple federally-approved mitigation bank(s) and the West Virginia In-Lieu Fee Program as indicated on the below Table as excerpted from the applicant's compensatory mitigation plan. The permittee will submit confirmation to the Corps, Huntington District (Permit Number LRH-2014-01110) of the purchase of the mitigation credits prior to the discharge of dredged and/or fill material into waters of the United States.

Table 3: SHP West Virginia Mitigation Summary (Continued)

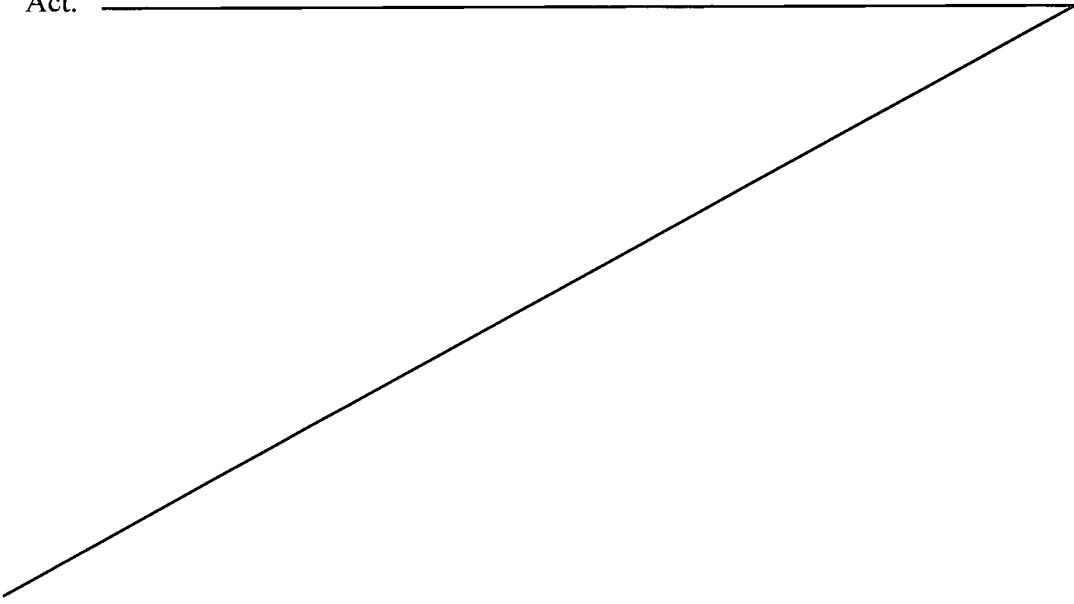
MITIGATION					
Resource	Mitigation Credit Needs	Bank Credits		ILF Credits (Little Muskingum-Middle Island 05030201)	Total Credits Delivered
Stream	2,917.15	Foster Run and Cline Run Banks	2,099.91	817.23	2,917.15
Wetland	0.706	Foster Run Bank Kincheloe Bank	0.490 0.216	-	0.706

9. 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 FERC 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 and in accordance with the executed programmatic agreement titled *Programmatic Agreement Among The Federal Energy Regulatory Commission; The Pennsylvania, West Virginia, Virginia and North Carolina State Historic Preservation Officers; The National Park Service; The U.S. Department of Agriculture, Forest Service; And The Advisory Council on Historic Preservation For The Atlantic Coast Pipeline Project And The Supply Header Project Docket Nos. CP15-554-000 and CP15-555-000* and

**Nationwide Permit 12 Verification Special Conditions
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LRH-2014-01110-GBR**

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dated January 19, 2018. 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.

10. The United States Fish and Wildlife Service (USFWS) *Biological Opinion for the Atlantic Coast Pipeline, LLC; Docket Numbers CP15-554-000, CP15-554-001, CP15-555-000; Project #05E2VA00-2016-F-1219, #05E2WV00-2014-F-0832, #05E2PA00-2016-TA-0960, #04EN2000-2017-I-0738* (BO) and dated October 16, 2017 contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with “incidental take” that is also specified in the BO. The permittee’s authorization under this Corps nationwide permit verification is conditional upon their compliance with all of the mandatory terms and conditions associated with the incidental take of the BO, which terms and conditions are incorporated by reference as being special conditions of the Section 404 nationwide permit verification. 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 United States Fish and Wildlife Service, 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 of its BO, and with the Endangered Species Act.
- 

Permit Number LRH-2014-01110-OHR;

Name of Permittee: Dominion Energy Transmission, Inc.

Date of Issuance: 2/14/2018

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 a United States 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

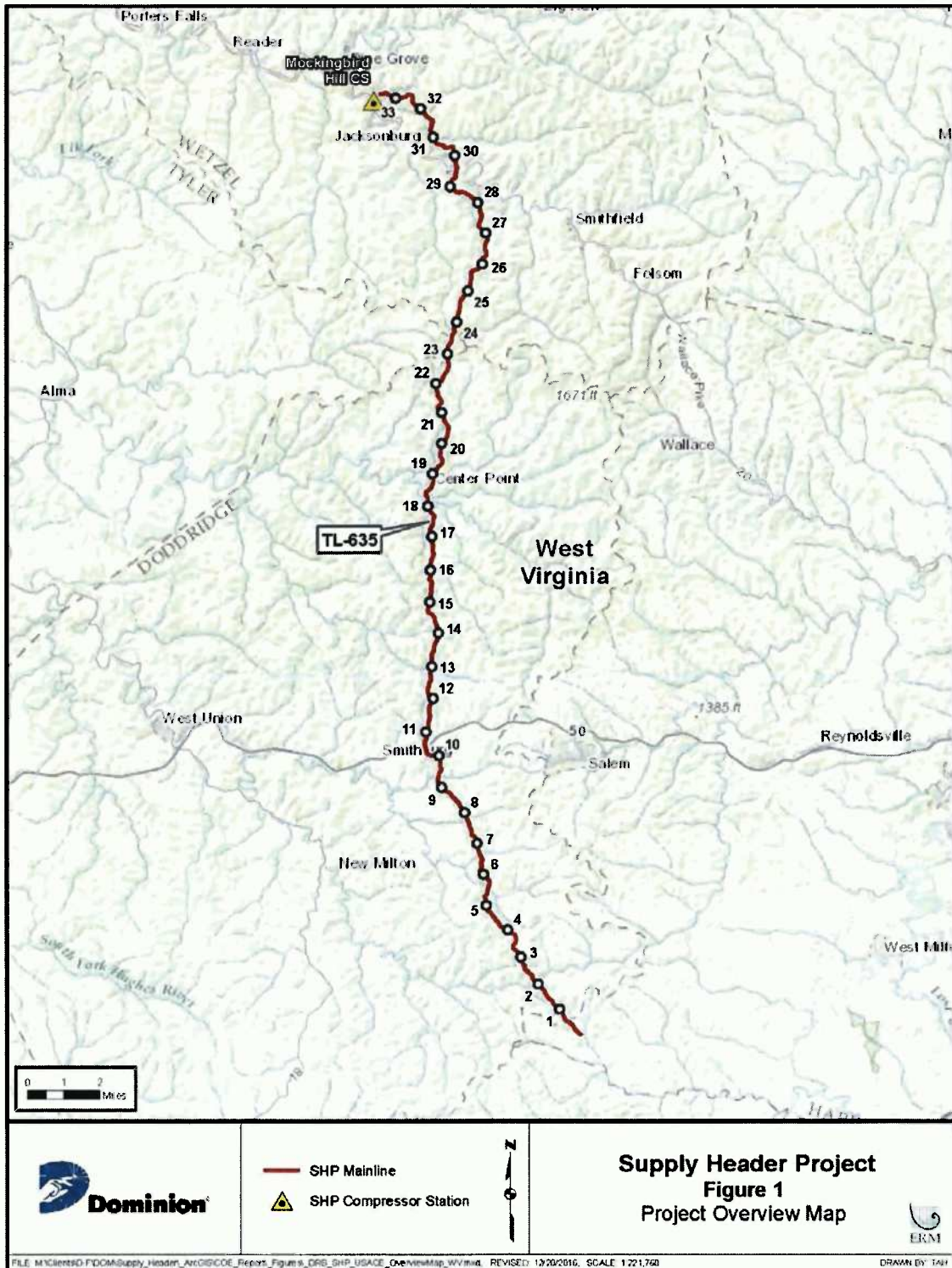


TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
WV TL635-1	0.8	Field Survey	sdog002	Doddrige County	05030201	Temp ROW	UNT to Dry Fork	Intermittent	NA	NA	87	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.179334	-80.569469
	0.8	Field Survey	wdog001e	Doddrige County	05030201	Perm ROW, Temp ROW	NA	NA	NA	NA	NA	NA	NA	NA	Open Cut	PEM	0.05	0.00	0.00	NA	NA	39.179514	-80.569670
	0.8	Field Survey	sdog001	Doddrige County	05030201	Perm ROW, Temp ROW	UNT to Dry Fork	Perennial	8	NA	101	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	B1	April 1 - June 30	39.179586	-80.569788
WV TL635-2	0.9	Field Survey	sdoj009	Doddrige County	05030201	Perm AR	Dry Fork	Perennial	NA	6	NA	42	42	0.00	Add timber mats and stone over existing culvert	NA	NA	NA	NA	B1	April 1 - June 30	39.181446	-80.566341
	0.9	Field Survey	sdoj010	Doddrige County	05030201	Perm AR	UNT to Dry Fork	Perennial	NA	4	NA	30	30	0.00	Add timber mats and stone over existing culvert	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.181341	-80.566966
WV TL635-3	1.3	Field Survey	sdoh004	Doddrige County	05030201	Perm ROW, Temp ROW	Dry Fork	Perennial	10	NA	85	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.184636	-80.575073
	1.3	Field Survey	wdog005e	Doddrige County	05030201	Perm ROW, Temp ROW	NA	NA	92	NA	NA	NA	NA	NA	Open Cut	PEM	0.18	0.00	0.00	NA	NA	39.184907	-80.574711
	1.4	Field Survey	sdoh003	Doddrige County	05030201	Perm ROW, Temp ROW	UNT to Dry Fork	Perennial	4	NA	115	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.186894	-80.575581
	1.4	Field Survey	wdoh003e	Doddrige County	05030201	Temp ROW	NA	NA	NA	NA	NA	NA	NA	NA	NA	PEM	0.03	0.00	0.00	NA	NA	39.185489	-80.575343
WV TL635-4	2.1	Field Survey	sdog014	Doddrige County	05030201	Perm ROW, Temp ROW	Meathouse Fork	Perennial	29	NA	113	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.192305	-80.583229
WV TL635-5	2.9	Field Survey	sdog015	Doddrige County	05030201	Perm ROW, Temp ROW	Johnson Fork	Perennial	6	NA	93	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.201259	-80.591380
	2.9	Field Survey	wdog006f	Doddrige County	05030201	Perm ROW, Temp ROW	NA	NA	22	NA	NA	NA	NA	NA	Open Cut	PFO	0.03	0.03	0.00	NA	NA	39.201336	-80.591293
	2.9	Field Survey	sdog016	Doddrige County	05030201	Perm AR	UNT to Johnson Fork	Perennial	NA	4	NA	46	46	0.00	Add timber mats and stone over existing culvert	NA	NA	NA	NA	B1	April 1 - June 30	39.201286	-80.591820
WV TL635-6	4.0	Field Survey	sdog018	Doddrige County	05030201	Perm ROW, Temp ROW	UNT to Indian Fork	Perennial	13	NA	114	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.213753	-80.598066
WV TL635-7	4.0	Field Survey	wdoa002e	Doddrige County	05030201	Perm AR	NA	NA	NA	13	NA	NA	NA	NA	Add timber mats and stone	PEM	0.00	0.00	0.01	NA	NA	39.214190	-80.597562
	4.0	Field Survey	sdoa023	Doddrige County	05030201	Perm AR	UNT to Indian Fork	Intermittent	NA	9	NA	33	33	0.01	Replace culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.215121	-80.597186
WV TL635-8	4.6	Field Survey	sdog020	Doddrige County	05030201	Perm ROW, Temp ROW	UNT to Indian Fork	Perennial	9	NA	131	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.219177	-80.605066
WV TL635-9	5.0	Field Survey	sdoj008	Doddrige County	05030201	Perm AR	Indian Fork	Perennial	NA	20	NA	30	0	NA	Add temporary bridge, restore to low water crossing after	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.223972	-80.604834

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
															construction								
WV TL635-10	5.1	Field Survey	wdog008f	Doddridge County	05030201	Perm ROW, Temp ROW	NA	NA	28	NA	NA	NA	NA	NA	Open Cut	PFO	0.05	0.03	0.00	NA	NA	39.224989	-80.608753
	5.1	Field Survey	sdog022	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Indian Fork	Perennial	8	NA	78	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.224995	-80.609086
WV TL635-11	5.1	Field Survey	sdoj007	Doddridge County	05030201	Temp AR	Indian Fork	Perennial	NA	6	NA	31	0	0.00	Add timber mats and stone over existing culvert	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.226433	-80.604239
	5.4	Field Survey	sdoa021	Doddridge County	05030201	Temp AR	Buckeye Creek	Perennial	NA	15	NA	31	0	0.00	Install temporary bridge	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.227398	-80.604036
	5.4	Field Survey	sdoj007	Doddridge County	05030201	Temp AR	Indian Fork	Perennial	NA	12	NA	60	0	0.00	Install temporary bridge	NA	NA	NA	NA	B1	April 1 - June 30	39.226921	-80.604023
WV TL635-12	5.5	Desktop	nhd_wv_083	Doddridge County	05030201	Perm ROW, Temp ROW, Temp TS	Buckeye Creek	Perennial	31	NA	138	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.230147	-80.608479
	5.5	Desktop	nhd_wv_084	Doddridge County	05030201	Perm ROW, Temp ROW, Temp TS	UNT to Buckeye Creek	Intermittent	17	NA	319	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.230671	-80.607990
WV TL635-13	5.9	Field Survey	sdoa019	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Buckeye Creek	Ephemeral	NA	NA	275	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.234788	-80.608497
	5.9	Field Survey	sdoa018	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Buckeye Creek	Intermittent	6	NA	106	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.235024	-80.609066
	5.9	Field Survey	sdoa004	Doddridge County	05030201	Perm AR, Perm ROW	UNT to Buckeye Creek	Ephemeral	NA	NA	66	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.235900	-80.609065
	5.9	Field Survey	sdoa016	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Buckeye Creek	Ephemeral	NA	NA	111	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.235835	-80.609136
WV TL635-14	5.9	Field Survey	sdoa004	Doddridge County	05030201	Perm AR, Perm ROW	UNT to Buckeye Creek	Ephemeral	NA	33	NA	526	526	0.01	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.235900	-80.609065
	5.9	Field Survey	sdoa016	Doddridge County	05030201	Perm AR	UNT to Buckeye Creek	Ephemeral	NA	NA	NA	279	279	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.235835	-80.609136
	6.0	Field Survey	sdoa017	Doddridge County	05030201	Perm AR	UNT to Buckeye Creek	Ephemeral	NA	NA	NA	90	90	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	B1	April 1 - June 30	39.236253	-80.609031

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
	6.0	Field Survey	sdoa005	Doddridge County	05030201	Perm AR	UNT to Buckeye Creek	Ephemeral	NA	1	NA	34	34	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.237705	-80.608461
WV TL635-15	6.7	Field Survey	sdoa010	Doddridge County	05030201	Perm ROW	UNT to Greenbrier Creek	Ephemeral	NA	NA	18	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.244208	-80.612152
	6.7	Desktop	nhd_wv_154	Doddridge County	05030201	Perm ROW, Temp ROW	Greenbrier Creek	Perennial	18	NA	97	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.244489	-80.611978
WV TL635-16	6.7	Field Survey	sdoa013	Doddridge County	05030201	Perm ROW	UNT to Greenbrier Creek	Ephemeral	NA	NA	122	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.245210	-80.612640
	6.8	Field Survey	sdoa012	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Greenbrier Creek	Ephemeral	2	NA	143	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.246516	-80.613382
WV TL635-17	7.8	Field Survey	sdoj005	Doddridge County	05030201	Perm AR	Buffalo Calf Fork	Perennial	NA	10	NA	31	0	0.01	No improvement needed	NA	NA	NA	NA	B1	April 1 - June 30	39.257657	-80.622715
WV TL635-18	7.8	Field Survey	sdog033	Doddridge County	05030201	Perm ROW, Temp ROW	Buffalo Calf Fork	Perennial	21	NA	100	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	B1	April 1 - June 30	39.259398	-80.619254
	7.9	Field Survey	sdog034	Doddridge County	05030201	Perm ROW	UNT Buffalo Calf Ford	Perennial	NA	NA	2	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.259865	-80.619115
WV TL635-19	7.9	Field Survey	sdoj004	Doddridge County	05030201	Perm AR	UNT to Buffalo Calf Fork	Perennial	NA	4	NA	32	32	0.00	Extend existing culvert; add timber mats and stone	NA	NA	NA	NA	B1	April 1 - June 30	39.261516	-80.618639
WV TL635-20	8.9	Field Survey	sdog023	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Buffalo Calf Fork	Perennial	8	NA	103	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.270407	-80.630282
WV TL635-21	9.4	Field Survey	sdog024	Doddridge County	05030201	Perm ROW, Temp ROW	Long Run	Perennial	26	NA	102	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.276791	-80.633502
WV TL635-22	9.4	Field Survey	sdoj003	Doddridge County	05030201	Perm AR	UNT to Long Run	Perennial	NA	25	NA	88	88	0.01	Add timber mats and stone over existing culvert	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.277930	-80.634554
WV TL635-23	10.6	Field Survey	sdog025	Doddridge County	05030201	Perm ROW, Temp ROW	Buckeye Run	Perennial	17	NA	101	NA	NA	NA	Bore	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.288370	-80.640582
	10.6	Field Survey	sdog026	Doddridge County	05030201	Perm ROW, Temp ATWS, Temp ROW	UNT to Buckeye Run	Perennial	10	NA	254	NA	NA	NA	Bore	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.288956	-80.640847
WV TL635-24	11.7	Field Survey	sdoj001	Doddridge County	05030201	Perm AR	UNT to Buckeye Run	Intermittent	NA	4	NA	32	32	0.00	Culvert maintenance required; add timber mats and stone	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.302929	-80.635057
WV TL635-25	12.2	Field Survey	wdog010f	Doddridge County	05030201	Perm ROW	NA	NA	50	NA	NA	NA	NA	NA	Open Cut	PFO	0.06	0.06	0.00	NA	NA	39.310092	-80.638997

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
WV TL635-26	12.9	Field Survey	sdog028	Doddridge County	05030201	Perm ROW, Temp ROW	Flint Run	Perennial	12	NA	108	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.319619	-80.638493
WV TL635-27	13.5	Field Survey	sdoh019	Doddridge County	05030201	Perm AR	UNT to Flint Run	Perennial	NA	4	NA	30	0	0.00	Add temporary timber mats over existing culvert; no permanent improvement needed	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.326333	-80.631760
WV TL635-28	14.0	Field Survey	sdoa003	Doddridge County	05030201	Perm AR	UNT to Flint Run	Ephemeral	NA	1	NA	25	25	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.334149	-80.629400
WV TL635-29	14.1	Field Survey	sdoh020	Doddridge County	05030201	Temp AR	UNT to Right Hand Fork	Perennial	NA	4	NA	28	0	NA	Install temporary bridge	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.334918	-80.636588
	14.1	Field Survey	wdoh006f	Doddridge County	05030201	Temp AR	NA	NA	NA	71	NA	NA	NA	NA	Install temporary bridge	PFO	0.04	0.00	0.00	NA	NA	39.335314	-80.635768
	14.1	Field Survey	sdog007	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Righthand Fork East Run	Perennial	7	NA	90	NA	NA	0.02	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.335192	-80.638113
	14.1	Field Survey	sdog007	Doddridge County	05030201	Temp AR	UNT to Righthand Fork East Run	Perennial	NA	19	NA	90	0	0.02	Install temporary bridge	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.335192	-80.638113
	14.2	Field Survey	sdog029	Doddridge County	05030201	Temp AR	UNT to Right Hand Fork East Run	Intermittent	NA	3	NA	31	0	0.00	Install temporary bridge	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.336652	-80.635030
WV TL635-30	14.2	Field Survey	sdoh021	Doddridge County	05030201	Perm AR	UNT to Big Battle Run	Perennial	NA	6	NA	31	31	0.00	Add timber mats and add stone over existing culvert	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.339060	-80.625286
WV TL635-31	15.1	Field Survey	wdog003e	Doddridge County	05030201	Temp ROW	NA	NA	NA	NA	NA	NA	NA	NA	NA	PEM	0.00	0.00	0.00	NA	NA	39.348676	-80.638302
	15.1	Field Survey	sdog008	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Big Battle Run	Perennial	5	NA	142	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.348707	-80.638224
	15.2	Field Survey	sdog009	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Big Battle Run	Perennial	3	NA	146	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.349295	-80.638171
WV TL635-32	15.5	Field Survey	sdoh022	Doddridge County	05030201	Perm AR	Big Battle Run	Perennial	NA	18	NA	34	34	0.01	Add timber mats and stone over existing culvert	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.351876	-80.626248
WV TL635-33	15.6	Field Survey	sdoh009	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Big Battle Run	Perennial	11	NA	105	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.355277	-80.636984
	15.8	Field Survey	sdoh008	Doddridge County	05030201	Perm ROW, Temp ROW	UNT to Big Battle Run	Perennial	6	NA	112	NA	NA	NA	Dam and Pump or	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.356640	-80.637486

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
															Flume								
	15.8	Field Survey	sdoh008	Doddridge County	05030201	Perm AR	UNT to Big Battle Run	Perennial	NA	5	NA	30	30	0.00	Add temporary timber mats over existing culvert and add stone	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.356640	-80.637486
	15.8	Field Survey	sdog030	Doddridge County	05030201	Perm AR	UNT to Big Battle Run	Intermittent	NA	3	NA	32	32	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.357083	-80.637542
WV TL635-34	16.5	Field Survey	sdoh024	Doddridge County	05030201	Perm AR	UNT to Big Battle Run	Perennial	NA	5	NA	134	0	0.01	Add temporary timber mats over existing bridge	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.364102	-80.623300
	16.5	Field Survey	sdoh023	Doddridge County	05030201	Perm AR	Big Battle Run	Perennial	NA	31	NA	35	35	0.02	Install temporary bridge; restore to low water crossing after construction	NA	NA	NA	NA	B1	April 1 - June 30	39.363924	-80.622467
	16.5	Field Survey	sdoh023	Doddridge County	05030201	Perm AR	Big Battle Run	Perennial	NA	27	NA	42	0	0.02	Add temporary timber mats over existing bridge	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.363924	-80.622467
WV TL635-35	17.8	Field Survey	sdoh017	Doddridge County	05030201	Perm AR	Little Battle Run	Perennial	NA	19	NA	49	49	0.01	Add timber mats and stone over existing culvert	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.381653	-80.639107
	17.8	Field Survey	sdoh010	Doddridge County	05030201	Perm AR	Little Battle Run	Perennial	NA	6	NA	31	31	0.00	Add timber mats and stone over existing culvert	NA	NA	NA	NA	B1	April 1 - June 30	39.383467	-80.637767
	17.8	Field Survey	sdoh010	Doddridge County	05030201	Perm ROW, Temp ROW	Little Battle Run	Perennial	16	NA	101	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.383467	-80.637767
	17.8	Field Survey	wdoh004e	Doddridge County	05030201	Ground beds	NA	NA	NA	NA	NA	NA	NA	NA	Open Cut	PEM	0.01	0.00	0.00	NA	NA	39.383048	-80.638800
	17.8	Field Survey	Sdoh011	Doddridge County	05030201	Ground beds	UNT to Little Battle Run	Perennial	NA	NA	79	NA	NA	NA	Open Cut	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.383011	-80.63874
WV TL635-36	18.5	Field Survey	wdoa100e	Doddridge County	05030201	Water Impoundment	NA	NA	NA	NA	NA	NA	NA	NA	Add timber mats and stone/sand	PEM	0.03	0.00	0.00	NA	NA	39.391158	-80.636073
	18.5	Field Survey	wdoa100e	Doddridge County	05030201	Temp AR	NA	NA	NA	39	NA	NA	NA	NA	Install timber mats	PEM	0.03	0.00	0.00	NA	NA	39.391158	-80.636073
	18.6	Field Survey	sdoa100	Doddridge County	05030201	Temp AR	Talkington Fork	Perennial	NA	24	NA	34	0	0.02	Install temporary bridge	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.392783	-80.636237

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Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
WV TL635-37	18.5	Field Survey	sdoh012	Doddridge County	05030201	Perm ROW, Temp ROW	McElroy Creek	Perennial	74	NA	101	NA	NA	0.03	Dam and Pump	NA	NA	NA	NA	B1	April 1 - June 30	39.392123	-80.638051
WV TL635-38	18.6	Field Survey	sdog031	Doddridge County	05030201	Perm ROW, Temp ATWS, Temp CPY	UNT to McElroy Creek	Perennial	41	NA	269	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	B1	April 1 - June 30	39.393894	-80.637085
WV TL635-39	19.0	Field Survey	sdoh016	Doddridge County	05030201	Perm AR	Franks Run	Perennial	NA	10	NA	30	0	0.01	Add metal plating over existing bridge	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.400574	-80.638514
WV TL635-40	20.6	Field Survey	sdog032	Doddridge County	05030201	Perm ROW, Temp ROW	Franks Run	Perennial	31	NA	81	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.419105	-80.628984
	20.7	Field Survey	wdog012s	Doddridge County	05030201	Perm ROW, Temp ROW	NA	NA	65	NA	NA	NA	NA	NA	Open Cut	PSS	0.09	0.07	0.00	NA	NA	39.419185	-80.629243
WV TL635-41	21.9	Field Survey	sdoh013	Doddridge County	05030201	Perm AR	UNT to Broad Run	Intermittent	NA	5	NA	39	39	0.00	Extend existing culvert and add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.435751	-80.640048
WV TL635-42	23.1	Field Survey	styg001	Tyler County	05030201	Temp ROW	UNT to Indian Creek	Intermittent	NA	NA	132	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.448081	-80.628309
	23.1	Field Survey	styg002	Tyler County	05030201	Perm ROW, Temp ROW	Indian Creek	Perennial	16	NA	101	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.448271	-80.628526
WV TL635-43	24.7	Field Survey	wwzg003f	Wetzel County	05030201	Perm ROW, Temp ROW	NA	NA	NA	NA	NA	NA	NA	NA	Open Cut	PFO	0.14	0.10	0.00	NA	NA	39.470133	-80.620121
	24.7	Field Survey	wwzg003f	Wetzel County	05030201	Perm AR	NA	NA	NA	107	NA	NA	NA	NA	Add timber mats and stone	PFO	0.00	0.00	0.07	NA	NA	39.470133	-80.620121
	24.7	Field Survey	swzg024_1	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to Buffalo Run	Perennial	19	NA	NA	30	NA	0.01	Dam and Pump	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.470036	-80.620086
	24.8	Field Survey	swzg024_2	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to Buffalo Run	Perennial	14	NA	76	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.470237	-80.620054
WV TL635-44	24.8	Field Survey	swzh025	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	17	NA	55	55	0.01	Add temporary bridge over existing culvert	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.471245	-80.621232

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Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
	24.8	Field Survey	swzh023	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	10	NA	35	35	0.00	Install temporary bridge; restore to low water crossing after construction	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.471099	-80.620989
	24.8	Field Survey	swzh023	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	10	NA	33	33	0.00	Install culvert/add timber mats or stone	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.471099	-80.620989
	24.8	Field Survey	swzh022	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	3	NA	34	34	0.00	Replace existing culvert	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.474028	-80.624991
	24.8	Field Survey	swzh023	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	11	NA	54	54	0.01	Add fill over existing culvert	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.472888	-80.623090
WV TL635-45	25.4	Field Survey	swzg025	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to Buffalo Run	Perennial	NA	NA	52	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.477643	-80.615272
	25.4	Field Survey	swzg025	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	5	NA	32	32	0.00	Install timber mats; culvert maintenance required	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.477643	-80.615272
	25.4	Field Survey	swzg026	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	24	NA	76	76	0.02	Add timber mats and stone over existing culvert	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.477867	-80.615595
	25.4	Field Survey	swzg026	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to Buffalo Run	Perennial	13	NA	101	NA	NA	0.02	Dam and Pump	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.477867	-80.615595
WV TL635-46	25.5	Field Survey	swzh010	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	10	NA	35	35	0.00	Add timber mats and stone over existing culvert	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.479595	-80.620622
	25.5	Field Survey	swzh010	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	4	NA	37	37	0.00	Add timber mats and stone over existing culvert	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.479595	-80.620622
	25.5	Field Survey	swzh010	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	4	NA	47	47	0.00	Add timber mats and stone over existing culvert	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.479595	-80.620622
WV TL635-48	25.6	Field Survey	swzh009	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Intermittent	NA	NA	NA	24	24	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.486310	-80.620757

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
WV TL635-47	25.9	Field Survey	swzh016	Wetzel County	05030201	Perm AR	UNT to Arches Fork	Perennial	NA	8	NA	91	91	0.01	Install temporary bridge; restore to low water crossing following construction	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.476835	-80.602329
	25.9	Field Survey	wwzh022e	Wetzel County	05030201	Perm AR	NA	NA	NA	74	NA	NA	NA	NA	Add timber mats and stone	PEM	0.00	0.00	0.05	NA	NA	39.476114	-80.600262
	25.9	Field Survey	wwzh021e	Wetzel County	05030201	Perm AR	NA	NA	NA	172	NA	NA	NA	NA	Add timber mats and stone	PEM	0.00	0.00	0.10	NA	NA	39.477065	-80.604370
	26.0	Field Survey	swzh019	Wetzel County	05030201	Perm AR	UNT to Arches Fork	Perennial	NA	17	NA	57	57	0.01	Replace culvert and add stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.478391	-80.595024
	26.0	Field Survey	swzh021	Wetzel County	05030201	Perm AR	Arches Fork	Perennial	NA	27	NA	32	32	0.02	Install temporary bridge; restore to low water crossing following construction	NA	NA	NA	NA	B1	April 1 - June 30	39.478445	-80.591412
WV TL635-48	25.6	Field Survey	swzh008	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Intermittent	NA	NA	NA	18	18	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.486349	-80.620938
	25.6	Field Survey	swzh002_1	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	22	NA	61	61	0.01	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.485941	-80.621844
	25.6	Field Survey	swzh002_2	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	59	NA	183	183	0.04	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.486154	-80.621219
	25.6	Field Survey	swzh002_3	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	81	NA	201	201	0.04	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.486507	-80.619223
	25.6	Field Survey	swzh002_4	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	9	NA	85	85	0.02	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.487637	-80.613088
	26.2	Field Survey	swzh003	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	54	NA	131	131	0.01	Install culvert; add timber mats and stone	NA	NA	NA	NA	B1	April 1 - June 30	39.486343	-80.614742
	26.2	Field Survey	swzh004	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	NA	NA	155	155	0.01	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.486332	-80.615240
	26.2	Field Survey	swzh005	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Perennial	NA	4	NA	38	38	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.486616	-80.613798
26.2	Field Survey	wwzh020e	Wetzel County	05030201	Perm AR	NA	NA	NA	102	NA	NA	NA	0.06	Add timber mats and stone	PEM	0.00	0.00	0.06	NA	NA	39.486712	-80.613693	

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ^j	Wetland Loss (acres) ^k	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
	26.2	Field Survey	swzh007	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Intermittent	NA	2	NA	31	31	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	B1	April 1 - June 30	39.488115	-80.612647
	26.2	Field Survey	swzh006	Wetzel County	05030201	Perm AR	UNT to Buffalo Run	Intermittent	NA	3	NA	32	32	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	B1	April 1 - June 30	39.488053	-80.612740
WV TL635-49	26.8	Field Survey	swzg028	Wetzel County	05030201	Perm ROW	UNT to Carpenter Run	Perennial	NA	NA	47	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.493842	-80.606459
	26.8	Field Survey	wwzg004f	Wetzel County	05030201	Perm ROW, Temp ROW	NA	NA	129	NA	NA	NA	NA	NA	Open Cut	PFO	0.19	0.13	0.00	NA	NA	39.494183	-80.606850
	26.9	Field Survey	swzg027	Wetzel County	05030201	Perm ROW, Temp ROW	Carpenter Run	Perennial	16	NA	77	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.494337	-80.606904
WV TL635-50	28.1	Field Survey	swza002	Wetzel County	05030201	Perm ROW, Temp ROW	Ashcamp Run	Perennial	9	NA	104	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.509724	-80.612711
	28.1	Field Survey	swza001	Wetzel County	05030201	Temp ROW	UNT to Ashcamp Run	Ephemeral	NA	NA	152	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.509789	-80.613325
WV TL635-51	29.4	Field Survey	swzh028	Wetzel County	05030201	Perm ROW, Temp ROW	Fishing Creek	Perennial	74	NA	101	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.519869	-80.623938
	29.5	Field Survey	swzh027	Wetzel County	05030201	Perm ROW	UNT to Fishing Creek	Perennial	NA	NA	184	NA	NA	NA	Install temporary culvert	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.520234	-80.623375
	29.5	Field Survey	swzh027	Wetzel County	05030201	Water Impoundment	UNT to Fishing Creek	Perennial	NA	4	NA	30	30	0.00	Install culvert; add timber mats and stone	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.520234	-80.623375
	29.5	Field Survey	swzh027	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to Fishing Creek	Perennial	NA	NA	17	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.520234	-80.623375
	29.5	Field Survey	swzg014	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to South Fork Fishing Creek	Perennial	3	NA	158	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.520919	-80.623053

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude	
WV TL635-52	29.7	Field Survey	swzg016_1	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to South Fork Fishing Creek	Intermittent	NA	NA	125	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.523633	-80.622865
	29.7	Field Survey	swzg016_2	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to South Fork Fishing Creek	Intermittent	NA	NA	111	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	NA	UNT to B1, HQS	April 1 - June 30	39.523633	-80.622865
	29.7	Field Survey	swzg015_1	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to South Fork Fishing Creek	Intermittent	10	NA	83	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	B1	April 1 - June 30	39.523444	-80.623241	
	29.7	Field Survey	swzg015_2	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to South Fork Fishing Creek	Intermittent	7	NA	56	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	B1	April 1 - June 30	39.523731	-80.623111	
	29.7	Field Survey	swzg015_3	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to South Fork Fishing Creek	Intermittent	9	NA	135	NA	NA	NA	Dam and Pump or Flume	NA	NA	NA	NA	B1	April 1 - June 30	39.523943	-80.623067	
	29.7	Field Survey	swzg017	Wetzel County	05030201	Temp ROW	UNT to South Fork Fishing Creek	Perennial	NA	NA	90	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.524155	-80.623014
	29.7	Field Survey	swzg018_1	Wetzel County	05030201	Perm ROW, Temp ROW	South Fork Fishing Creek	Perennial	66	NA	103	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	B1	April 1 - June 30	39.525037	-80.623217	
WV TL635-53	30.1	Field Survey	swzg018_2	Wetzel County	05030201	Perm ROW, Temp ROW	South Fork Fishing Creek	Perennial	54	NA	113	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	B1	April 1 - June 30	39.527946	-80.623743	
WV TL635-54	30.9	Field Survey	swzg019	Wetzel County	05030201	Perm AR	Richwood Run	Perennial	NA	24	NA	28	0	0.03	Install metal plating over existing bridge	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.533886	-80.634354	
	30.9	Field Survey	swzg019	Wetzel County	05030201	Perm AR	Richwood Run	Perennial	NA	24	NA	27	27	0.03	Install temporary bridge; restore to low water crossing following construction	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.533886	-80.634354	

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the
U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
	30.9	Field Survey	swzg019	Wetzel County	05030201	Perm ROW, Temp ROW	Richwood Run	Perennial	33	NA	103	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	B1	April 1 - June 30	39.533886	-80.634354
WV TL635-55	31.1	Field Survey	swza007	Wetzel County	05030201	Temp ROW	UNT to Richwood Run	Ephemeral	NA	NA	266	NA	NA	NA	Not Crossed by Centerline	NA	NA	NA	NA	B1	April 1 - June 30	39.536026	-80.635814
WV TL635-56	31.3	Field Survey	wwza001e	Wetzel County	05030201	Perm ROW, Temp ROW	NA	NA	NA	NA	NA	NA	NA	NA	NA	PEM	0.01	0.00	0.00	NA	NA	39.538722	-80.636639
WV TL635-57	31.8	Field Survey	swzg021	Wetzel County	05030201	Perm ROW, Temp ROW	Upper Run	Perennial	29	NA	161	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.544399	-80.639334
WV TL635-58	32.2	Field Survey	swzg022	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to Upper Run	Perennial	18	NA	106	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.548465	-80.644841
	33.2	Field Survey	swzg023	Wetzel County	05030201	Perm ROW, Temp ROW	Lower Run	Perennial	27	NA	101	NA	NA	0.03	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.552347	-80.657751
WV TL635-59	33.2	Field Survey	swzg023	Wetzel County	05030201	Perm AR	Lower Run	Perennial	NA	34	NA	54	54	0.03	Install temporary bridge; restore to low water crossing following construction	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.552347	-80.657751
	33.4	Field Survey	swzg008	Wetzel County	05030201	Perm AR	Lower Run	Perennial	NA	14	NA	30	30	0.01	Install temporary bridge; restore to low water crossing following construction	NA	NA	NA	NA	B1, HQS	April 1 - June 30	39.550111	-80.661192
WV TL635-60	33.5	Field Survey	swzg009	Wetzel County	05030201	Perm ROW, Temp ROW	UNT to Lower Run	Perennial	15	NA	105	NA	NA	NA	Dam and Pump	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.552408	-80.661634
Mockingbird Hill CS	33.5	Field Survey	swzg006_1	Wetzel County	05030201	Aboveground Facility	UNT to Lower Run	Perennial	12	NA	107	NA	NA	0.00	Dam and Pump or Flume	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.550655	-80.664500
	33.5	Field Survey	swzg007_1	Wetzel County	05030201	Perm AR	UNT to Lower Run	Perennial	NA	7	124	124	124	0.02	Install culvert; add timber and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.552333	-80.665287

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Supply Header Project within the U.S. Army Corps of Engineers – Huntington District

Single Complete ID ^a	MP	Provisional or Survey ^b	Feature ID ^c	County	HUC 8	Project Facility Crossed ^d	Waterbody Name	Waterbody Regime	Centerline Crossing (feet)	Waterbody Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet) ^e	Permanent Affected Bank Length Access Road (feet) ^f	Temporary Affected Bank Length Access Road (feet)	Permanent waterbody Impact (acre)	Construction Method ^g	Coward-in Class ^h	Wetland Temporary Impact (acres) ⁱ	Wetland Conversion (acres) ⁱ	Wetland Loss (acres) ⁱ	State Regulatory Class	Time of Year Restriction	Latitude	Longitude
	33.5	Field Survey	swzg007_2	Wetzel County	05030201	Perm AR	UNT to Lower Run	Perennial	NA	7	125	125	125	0.02	Install culvert; add timber and stone	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.552333	-80.665287
	33.5	Field Survey	swzg006_2	Wetzel County	05030201	Aboveground Facility	UNT to Lower Run	Perennial	598	NA	598 ^k	NA	NA	NA	Install culvert	NA	NA	NA	NA	UNT to B1	April 1 - June 30	39.550655	-80.664500

^a Single and Complete Project ID identifies each separate and distant crossing as a Single and Complete Project, or groups crossings water features according USACE guidance. A Single and Complete Project may include more than one wetland and/or waterbody together and subtotals are provided for where multiple water feature crossings constitute a Single and Complete Project.

^b Survey Features represent wetlands and waterbodies that have been documented during field surveys and for which data sheets are included in the Wetland and Waterbody Delineation Report. Provisional Features have been added via desktop review of available desktop resources and other available data.

^c Feature ID is unique to each waterbody or wetland delineated. Features starting with a "w" are wetlands, features starting with "s" are waterbodies, and features starting with "nhd" are waterbodies that have been added based on desktop review where survey access is not available.

^d Project Facility Crossed column includes the following categories and each is defined below:
 Perm AR = Permanent Access Road
 Temp AR = Temporary Access Road
 Perm ROW = Permanent Right-of-Way
 Temp ROW = Temporary ROW
 Temp TS = Temporary Topsoil Storage

^e Affected Bank Length Workspace column represents temporary impacts associated with mainline pipeline construction and is determined based on the waterbody bank length within the construction workspace.

^f Affected Bank Length Access Road column represents the waterbody bank length that will be impacted due to access road use or improvement, both Permanent and Temporary impacts are categorized based on intended use and/or improvements.

^g Construction Method column includes trenchline construction methods for waterbodies that have a pipeline centerline crossing length. For waterbodies that are not crossed by the pipeline centerline or other unique facility components this column reads "Not Crossed by Centerline". For wetlands that intersect Perm ROW, wetlands will be open cut, as indicated in the table. For waterbodies and wetlands that intersect unique facility components (e.g., compressor stations, water impoundment) the column refers to the unique facility crossed and identifies the nature of the planned impacts, as well as a general description of access road improvements, where applicable.

^h Cowardin Classification for wetlands, PEM = palustrine emergent, PSS = palustrine scrub-shrub, and PFO = palustrine forested.

ⁱ Wetland Impact columns include acreage of temporary impacts with project workspace that will be restored to pre-construction elevations and allowed to revegetate to pre-construction conditions after construction is complete, conversion impacts will result from operational maintenance of the pipeline right-of-way changing PSS and PFO wetland types to PEM and PEM/PSS respectively, and loss impacts will result from filling wetlands for permanent access road construction or improvements.

^j Federal Species column identifies waterbodies where Dominion Energy has coordinated with the USFWS to survey for federally listed species and for which time of year restrictions or other conservation measures will be implemented according to coordination with the USFWS and the final Biological Opinion for the project.

^k Affected Bank Length for bottomless culvert within the Mockingbird Hill Compressor Station.

Instructions: Complete the data fields shown in red for proposed stream impacts. Once the appropriate information has been received, the applicable WVDNR Fisheries Biologists will be contacted for review. For more information, contact Danielle A. Elliott at wv.gov or call the WVDNR Coordination Unit at the Elkins Operations Center at 304-637-0245.

Fish Spawning Waiver Request- SHP														
Submitted by Steve Holden (steve.holden@erm.com) to Cliff Brown; Date: 2/12/18														
Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Orifice Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/Detail
shaj002	UNT to Tanner Fork	Perennial	Harrison	39.17339	-80.56310	Temporary	April 2018	5	Temporary Bridge	192	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog001	UNT to Dry Fork	Perennial	Doddridge	39.17959	-80.56979	Permanent	April 2018	5	Fill/Pipeline	101	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approve
sdog001	UNT to Dry Fork	Perennial	Doddridge	39.17959	-80.56979	Temporary	April 2018	5	Temporary Bridge	101	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog002	UNT to Dry Fork	Intermittent	Doddridge	39.17933	-80.56947	Temporary	April 2018	5	Temporary Bridge	87	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog009	Dry Fork	Perennial	Doddridge	39.18145	-80.56634	Permanent	April 2018	5	Access Road installation	42	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approve
sdog010	UNT to Dry Fork	Perennial	Doddridge	39.18134	-80.56697	Permanent	April 2018	5	Access Road installation	30	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approve
sdoh004	Dry Fork	Perennial	Doddridge	39.18464	-80.57507	Permanent	April 2018	5	Fill/Pipeline	85	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approve
sdoh004	Dry Fork	Perennial	Doddridge	39.18464	-80.57507	Temporary	April 2018	5	Temporary Bridge	85	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdoh003	UNT to Dry Fork	Perennial	Doddridge	39.18689	-80.57558	Permanent	April 2018	5	Fill/Pipeline	115	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approve
sdoh003	UNT to Dry Fork	Perennial	Doddridge	39.18689	-80.57558	Temporary	April 2018	5	Temporary Bridge	115	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog014	Meathouse Fork	Perennial	Doddridge	39.19231	-80.58323	Permanent	April 2018	5	Fill/Pipeline	113	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Deny
sdog014	Meathouse Fork	Perennial	Doddridge	39.19231	-80.58323	Temporary	April 2018	5	Temporary Bridge	113	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Deny
sdog015	Johnson Fork	Perennial	Doddridge	39.20126	-80.59138	Permanent	April 2018	5	Fill/Pipeline	93	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approve
sdog015	Johnson Fork	Perennial	Doddridge	39.20126	-80.59138	Temporary	April 2018	5	Temporary Bridge	93	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog016	UNT to Johnson Fork	Perennial	Doddridge	39.20129	-80.59182	Permanent	April 2018	5	Access Road installation	46	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approve
sdog023	UNT to Indian Fork	Intermittent	Doddridge	39.21512	-80.59719	Permanent	April 2018	5	Access Road installation	33	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approve
sdog018	UNT to Indian Fork	Perennial	Doddridge	39.21375	-80.59807	Permanent	April 2018	5	Fill/Pipeline	114	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approve
sdog018	UNT to Indian Fork	Perennial	Doddridge	39.21375	-80.59807	Temporary	April 2018	5	Temporary Bridge	114	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog020	UNT to Indian Fork	Perennial	Doddridge	39.21918	-80.60507	Permanent	April 2018	5	Fill/Pipeline	131	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approve
sdog020	UNT to Indian Fork	Perennial	Doddridge	39.21918	-80.60507	Temporary	April 2018	5	Temporary Bridge	131	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog008	Indian Fork	Perennial	Doddridge	39.22397	-80.60483	Permanent	April 2018	5	Access Road installation	30	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approve
sdog022	UNT to Indian Fork	Perennial	Doddridge	39.22500	-80.60909	Permanent	April 2018	5	Fill/Pipeline	78	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approve
sdog022	UNT to Indian Fork	Perennial	Doddridge	39.22500	-80.60909	Temporary	April 2018	5	Temporary Bridge	78	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog007_1	Indian Fork	Perennial	Doddridge	39.22740	-80.60404	Temporary	April 2018	5	Temporary Bridge	31	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog021	Buckeye Creek	Perennial	Doddridge	39.22692	-80.60402	Temporary	April 2018	5	Temporary Bridge	31	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Deny
sdog007_2	Indian Fork	Perennial	Doddridge	39.22643	-80.60424	Temporary	April 2018	5	Temporary Bridge	60	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approve
sdog033	Buffalo Cal Fork	Perennial	Doddridge	39.25940	-80.61925	Permanent	April 2018	5	Fill/Pipeline	100	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approve

92	swzh010_1	UNT to Buffalo Run	Perennial	Wetzel	39.47960	-80.62062	Permanent	April 2018	5	Access Road installation	35	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approval
93	swzh010_2	UNT to Buffalo Run	Perennial	Wetzel	39.47960	-80.62062	Permanent	April 2018	5	Access Road installation	37	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approval
94	swzh010_3	UNT to Buffalo Run	Perennial	Wetzel	39.47960	-80.62062	Permanent	April 2018	5	Access Road installation	47	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approval
95	swzh002_1	UNT to Buffalo Run	Perennial	Wetzel	39.48594	-80.62184	Permanent	April 2018	5	Add culvert	61	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
96	swzh002_2	UNT to Buffalo Run	Perennial	Wetzel	39.48615	-80.62122	Permanent	April 2018	5	Add culvert	183	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
97	swzh002_3	UNT to Buffalo Run	Perennial	Wetzel	39.48651	-80.61922	Permanent	April 2018	5	Add culvert	201	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
98	swzh002_4	UNT to Buffalo Run	Perennial	Wetzel	39.48764	-80.61309	Permanent	April 2018	5	Add culvert	85	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
99	swzh008	UNT to Buffalo Run	Intermittent	Wetzel	39.48635	-80.62094	Permanent	April 2018	5	Add culvert	18	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
100	swzh009	UNT to Buffalo Run	Intermittent	Wetzel	39.48631	-80.62076	Permanent	April 2018	5	Add culvert	24	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
101	swzh016	UNT to Arches Fork	Perennial	Wetzel	39.47684	-80.60233	Permanent	April 2018	5	Access Road installation	91	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approval
102	swzh019	UNT to Arches Fork	Perennial	Wetzel	39.47839	-80.59502	Temporary	April 2018	5	Replace culvert	57	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Replace culvert	Approval
103	swzh021	Arches Fork	Perennial	Wetzel	39.47845	-80.59141	Permanent	April 2018	5	Access Road installation	32	Not to exceed 30'	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Access Road installation	Approval
104	swzh003	UNT to Buffalo Run	Perennial	Wetzel	39.48634	-80.61474	Permanent	April 2018	5	Add culvert	131	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
105	swzh004	UNT to Buffalo Run	Perennial	Wetzel	39.48633	-80.61524	Permanent	April 2018	5	Add culvert	155	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
106	swzh005	UNT to Buffalo Run	Perennial	Wetzel	39.48662	-80.61380	Permanent	April 2018	5	Add culvert	38	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
107	swzh006	UNT to Buffalo Run	Intermittent	Wetzel	39.48805	-80.61274	Permanent	April 2018	5	Add culvert	32	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
108	swzh007	UNT to Buffalo Run	Intermittent	Wetzel	39.48812	-80.61265	Permanent	April 2018	5	Add culvert	31	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
109	swzg028	UNT to Carpenter Run	Perennial	Wetzel	39.49384	-80.60646	Temporary	April 2018	5	Temporary Bridge	47	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approval
110	swzg027	Carpenter Run	Perennial	Wetzel	39.49434	-80.60690	Permanent	April 2018	5	Fill/Pipeline	77	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approval
111	swzg027	Carpenter Run	Perennial	Wetzel	39.49434	-80.60690	Temporary	April 2018	5	Temporary Bridge	77	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approval
112	swza001	UNT to Ashcamp Run	Ephemeral	Wetzel	39.50979	-80.61333	Temporary	April 2018	5	Temporary Bridge	152	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approval
113	swza002	Ashcamp Run	Perennial	Wetzel	39.50972	-80.61271	Permanent	April 2018	5	Fill/Pipeline	104	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approval
114	swza002	Ashcamp Run	Perennial	Wetzel	39.50972	-80.61271	Temporary	April 2018	5	Temporary Bridge	104	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approval
115	swzh028	South Fork Fishing Creek	Perennial	Wetzel	39.51987	-80.62394	Permanent	April 2018	5	Fill/Pipeline	101	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Approval
116	swzh028	South Fork Fishing Creek	Perennial	Wetzel	39.51987	-80.62394	Temporary	April 2018	5	Temporary Bridge	101	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approval
117	swzg014	UNT to South Fork Fishing Creek	Perennial	Wetzel	39.52092	-80.62305	Permanent	April 2018	5	Fill/Pipeline	158	30"	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	30" Pipeline	Denial
118	swzg014	UNT to South Fork Fishing Creek	Perennial	Wetzel	39.52092	-80.62305	Temporary	April 2018	5	Temporary Bridge	158	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approval
119	swzh027_1	UNT to South Fork Fishing Creek	Perennial	Wetzel	39.52023	-80.62338	Temporary	April 2018	5	Temporary Bridge	184	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approval
120	swzh027_2	UNT to South Fork Fishing Creek	Perennial	Wetzel	39.52023	-80.62338	Permanent	April 2018	5	Add culvert	30	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Add culvert	Approval
121	swzh027_3	UNT to South Fork Fishing Creek	Perennial	Wetzel	39.52023	-80.62338	Temporary	April 2018	5	Temporary Bridge	17	40' maximum	Follow FERC Procedures; Seed/Planting & Permanent Bank Stabilization, Erosion Control Measures Installed According to Permits	Temporary Bridge	Approval



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

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

October 31, 2017

LESLIE HARTZ, VICE PRES
DOMINION ENERGY TRANSMISSION, INC.
707 E. MAIN ST.
RICHMOND, VA 23219

MAR15 10 2:04PM

Re: General Permit Registration No. WVR310846
Supply Header Project (SHP), Harrison County,
Disturbed Acres (668.7)

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.



DIVISION OF NATURAL RESOURCES
324 Fourth Avenue, Room 200
South Charleston, West Virginia 25303-1228
Telephone (304) 558-3225
Fax (304) 558-6048
TDD (304) 558-1439
TDD 1-800-354-6087

Stephen S. McDaniel
Director

MAR15 18 2:04PM

March 6, 2018

Division of Natural Resources
Office of Land and Streams
LICENSE and RIGHT of ENTRY

Re: P-18-VI/09-476

Dominion Energy Transmission, Inc.
c/o Dominion Energy Services, Inc.
Attention: Richard Gangle
5000 Dominion Blvd.
Glen Allen, VA 23060-

Dear Sir or Madam:

The West Virginia Division of Natural Resources (WVDNR) 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 inch (30") steel pipeline (Supply Header Project) at twenty-three (23) separate locations along Dry Fork, unnamed tributaries of Dry Fork, Meathouse Fork, Johnson Fork, unnamed tributaries of Indian Fork, Buffalo Calf Fork, an unnamed tributaries of Buffalo Calf Fork, Long Run, Buckeye Run, an unnamed tributary of Buckeye Run, Flint Run, an unnamed tributary of Right Hand Fork East Run, unnamed tributaries of Big Battle Run, Little Battle Run, an unnamed tributary of Little Battle Run, McElroy Creek, and an unnamed tributary of McElroy Creek, Greenbrier, Grant, and McClellan Districts in Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A - 1.

The issuance of this License and Right of Entry by the WVDNR does not preclude the necessity to obtain permits from the U.S. Army Corps of Engineers (USACE), W.V. Department of Environmental Protection (WVDEP), or the W.V. Division of Homeland Security and Emergency Management (WVDHSEM). The Right of Entry does not negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations.

The applicant must contact the following agencies and abide by the following conditions, paying particular attention to **Condition Numbers 6 & 7** for guidance on mussel stream impacts:

1. The USACE may require either a Clean Water Act 404 permit or a Nationwide Permit. Contact the Huntington District (304-399-5210) or the Pittsburgh District (412-395-7155) from more

Dominion Energy Transmission, Inc.
P-18-VI/09-476
Page 2
March 6, 2018

information. Information can also be found at
<http://www.lrh.usace.army.mil/Missions/Regulatory.aspx>

2. The WVDEP (304-926-0499) may require the following permits:
 - a. A Clean Water Act Section 401 Water Quality Certification
<http://www.dep.wv.gov/WWE/Programs/Pages/401Certification.aspx>
 - b. Construction Stormwater Site Registration and Notice of Intent. Not needed if disturbance less than 1-acre http://dep.wv.gov/WWE/Programs/stormwater/Pages/sw_home.aspx
3. The WVDEP Erosion and Sediment Control Best Management Practice Manual, Revised 2016, must be followed. Copies of those guidelines are available from the Division of Water and Waste Management, (304) 926-0495 or at
http://www.dep.wv.gov/WWE/Programs/stormwater/csw/Pages/ESC_BMP.aspx
4. The WVDHSEM may require a Floodplain Permit. WVDHSEM can be contacted at: (304) 957-2571
5. No in-stream work during the cold water and warm water fish spawning seasons (September 15-March 31 and April 1- June 30, respectively). If in-stream impacts cannot be avoided during the applicable fish spawning season, contact the WVDNR Environmental Coordination Unit at (304) 637-0245.
6. Threatened or Endangered aquatic species identified by the U.S. Fish and Wildlife Service are listed in Appendix A of the 2017 USACE Nationwide Permits. The U.S. Fish and Wildlife Service Field Office should be contacted (304) 636-6568 for any activity in waterways listed in Appendix A.
<http://www.lrp.usace.army.mil/Portals/72/docs/regulatory/2017%20Public%20Notices/West%20Virginia%20-%20NWP%20March%202017%20PN.pdf?ver=2017-03-22-095505-870>
7. Survey requirements for streams with mussel populations are described in the West Virginia Mussel Survey Protocols. Contact the WVDNR Environmental Coordination Unit for information concerning mussels at (304) 637-0245.
<http://www.wvdnr.gov/Mussels/West%20Virginia%20Mussel%20Survey%20Protocols%20APR2016.pdf>

Additionally, this Right of Entry does not provide for the applicant to work outside the requested boundaries. The State does not 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. 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 the applicant fails or refuses 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 WVDNR may reject further applications.**

Dominion Energy Transmission, Inc.
P-18-VI/09-476
Page 3
March 6, 2018

Your payment in the amount of \$9200.00 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,

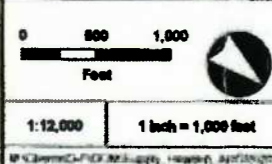
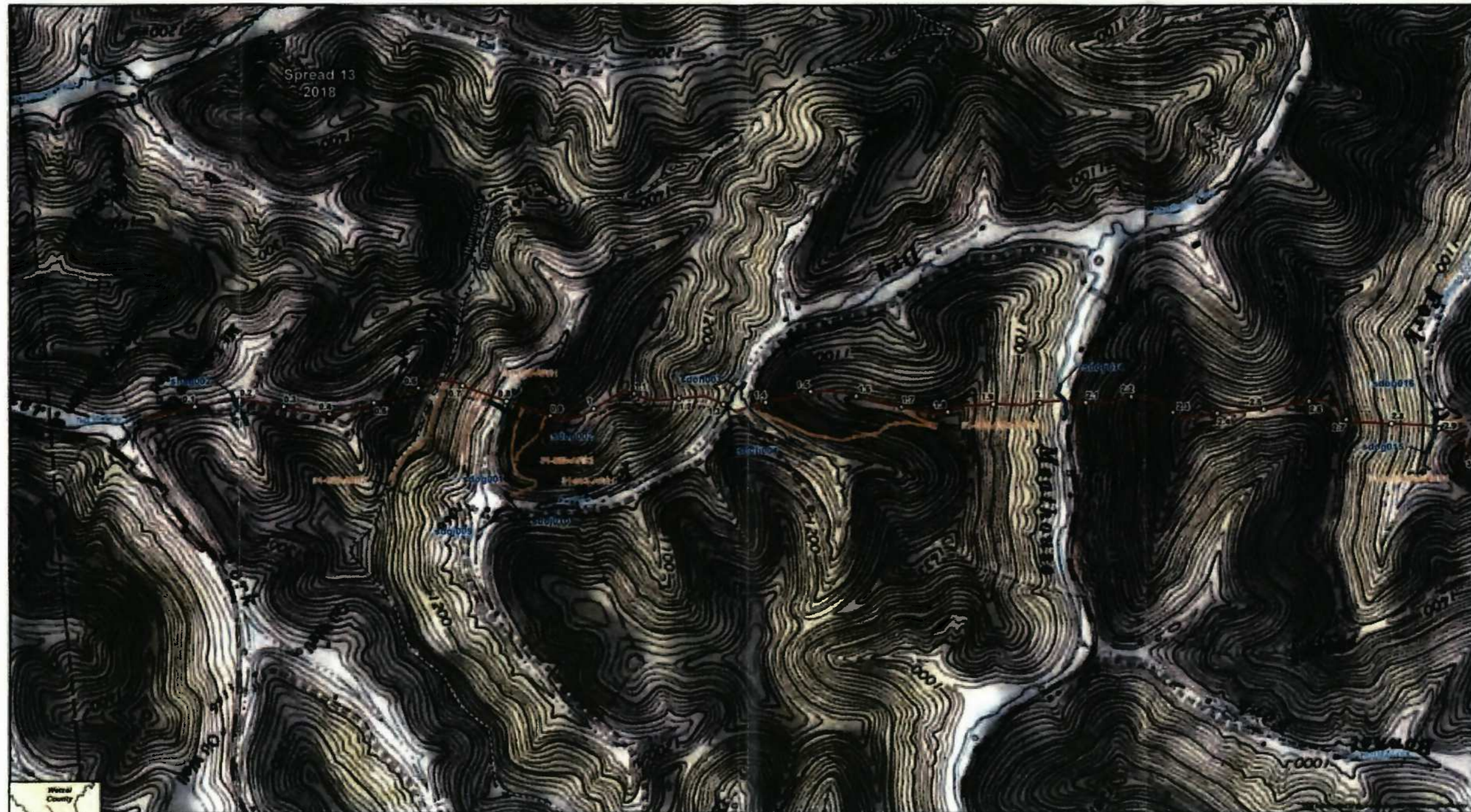


Joe T. Scarberry, Supervisor
Office of Land and Streams

JTS:cb

attachment

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers
DNR Coordination Unit



- Proposed Route
- Access Road
- Field Survey Waterbody
- Stream/River - Perennial
- Stream/River - Intermittent
- County Boundary
- Permanent Crossing
- Permanent/Temporary Crossing*
- Temporary Crossing

*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g., pipeline crossing with associated temporary equipment bridge).

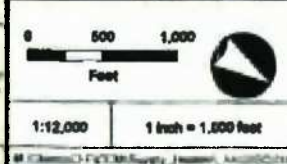
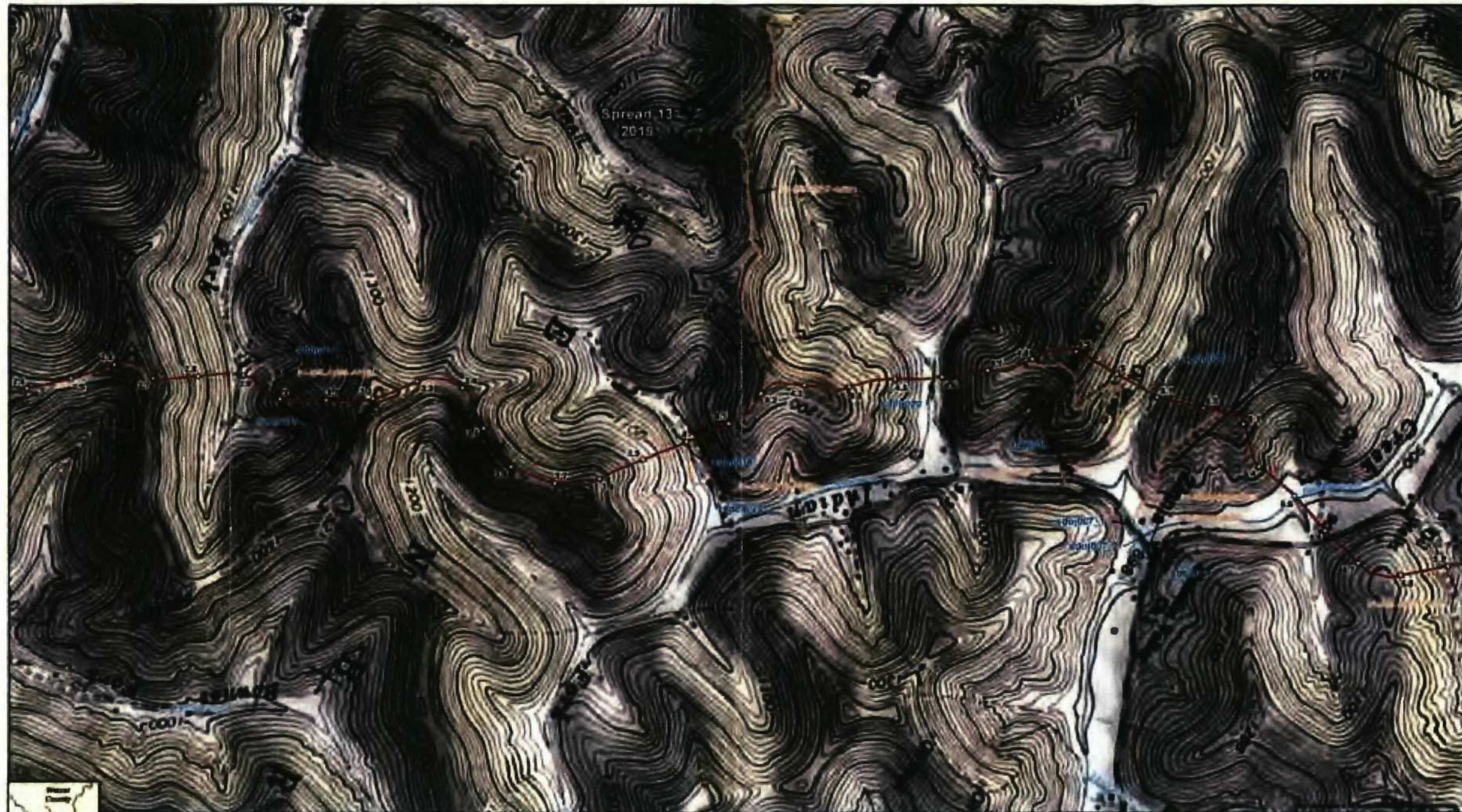
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Supply Header Project
Attachment 3 - USGS Topographic Maps
Doddridge County, West Virginia
Centerline: TL-635



DRAWN BY: JIM



— Proposed Road	— Stream/River - Perennial	Permanent Crossing
▬ Access Road	- - - Stream/River - Intermittent	Permanent/Temporary Crossing*
▭ Field Survey Waterbody		Temporary Crossing
▨ Spread Break		

*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary crossings are planned (e.g., pipeline crossing with associated temporary equipment bridge)



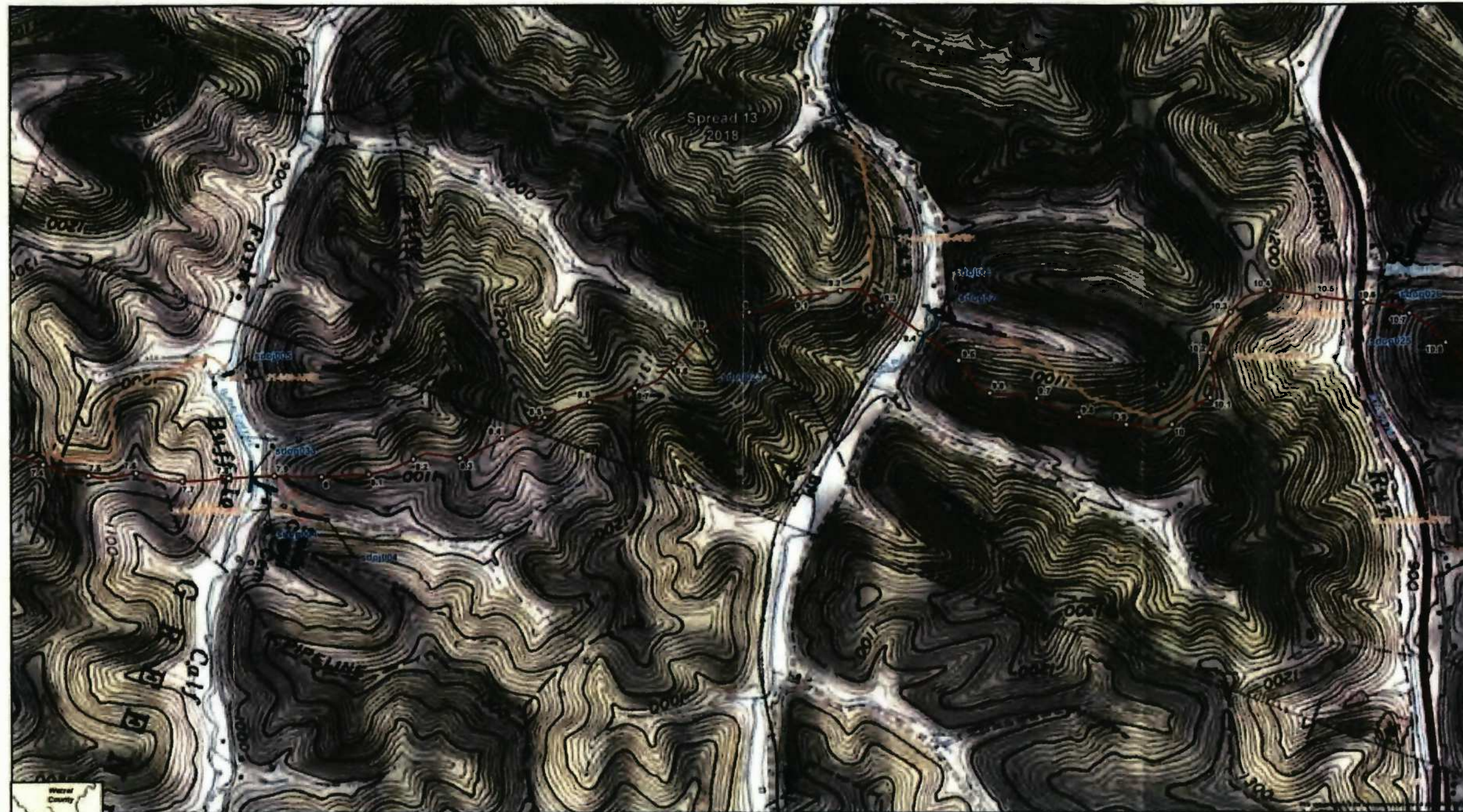
Supply Header Project
Attachment 3 - USGS Topographic Maps
Doddridge County, West Virginia
Centerline: TL-635



Exhibit C

P-18-VI/09-476





 1:12,000 1 inch = 1,000 feet	— Proposed Route — Access Road [Hatched Box] Field Survey Waterbody [Hatched Box] Spread Break	— Stream/River - Perennial - - - Stream/River - Intermittent	[Yellow Box] Permanent Crossing [Yellow Box] Permanent/Temporary Crossing* [White Box] Temporary Crossing
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*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g., pipeline crossing with associated temporary equipment storage).



Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635



Exhibit E

P-18-VI/09-476

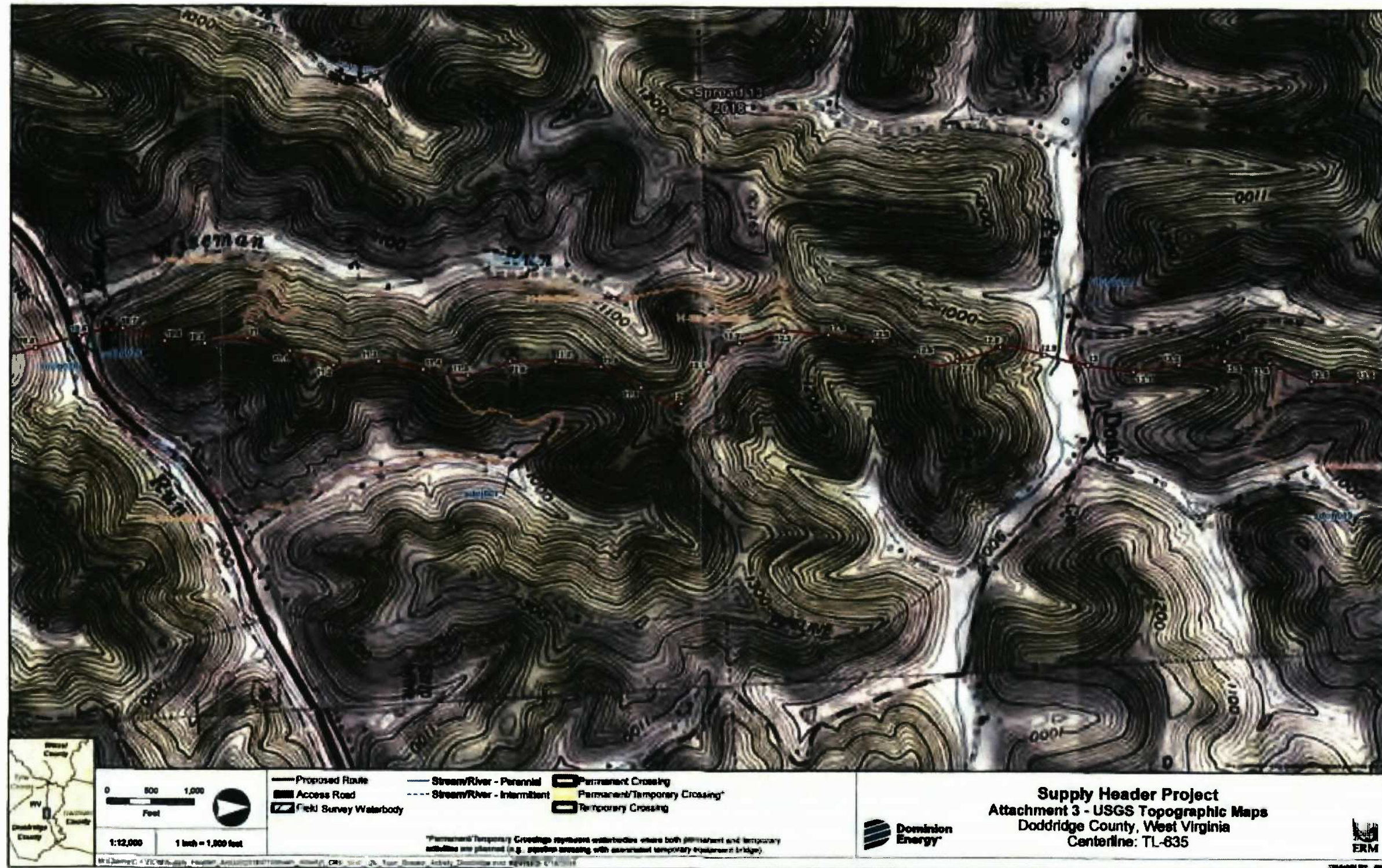
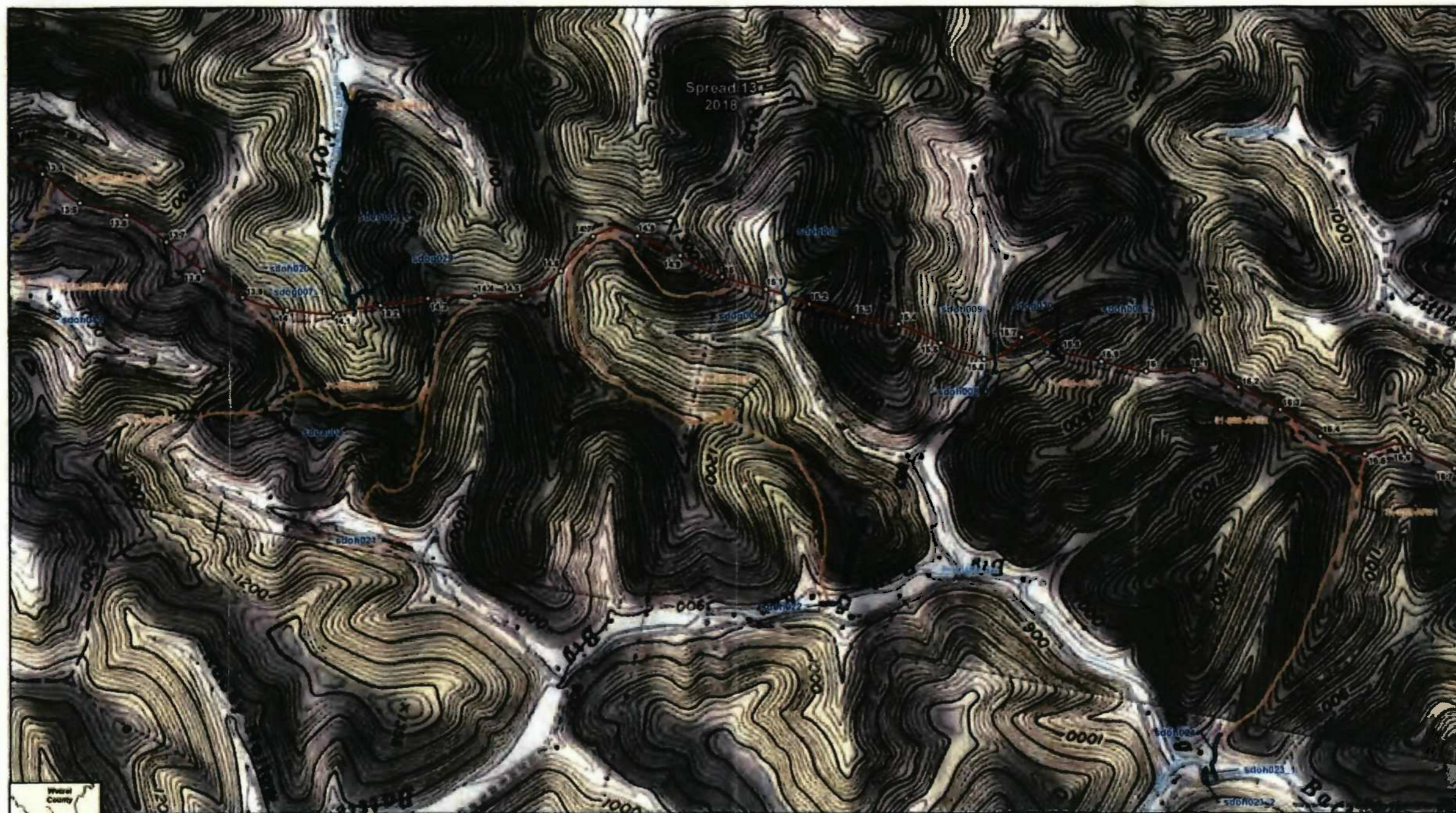


Exhibit F

P-18-VI/09-476



<p>1:12,000 1 inch = 1,000 feet</p>	<ul style="list-style-type: none"> Proposed Route Access Road Field Survey Waterbody Stream/River - Perennial Stream/River - Intermittent Permanent Crossing Permanent/Temporary Crossing* Temporary Crossing <p><small>*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g. pipeline crossing with associated temporary equipment bridge).</small></p>
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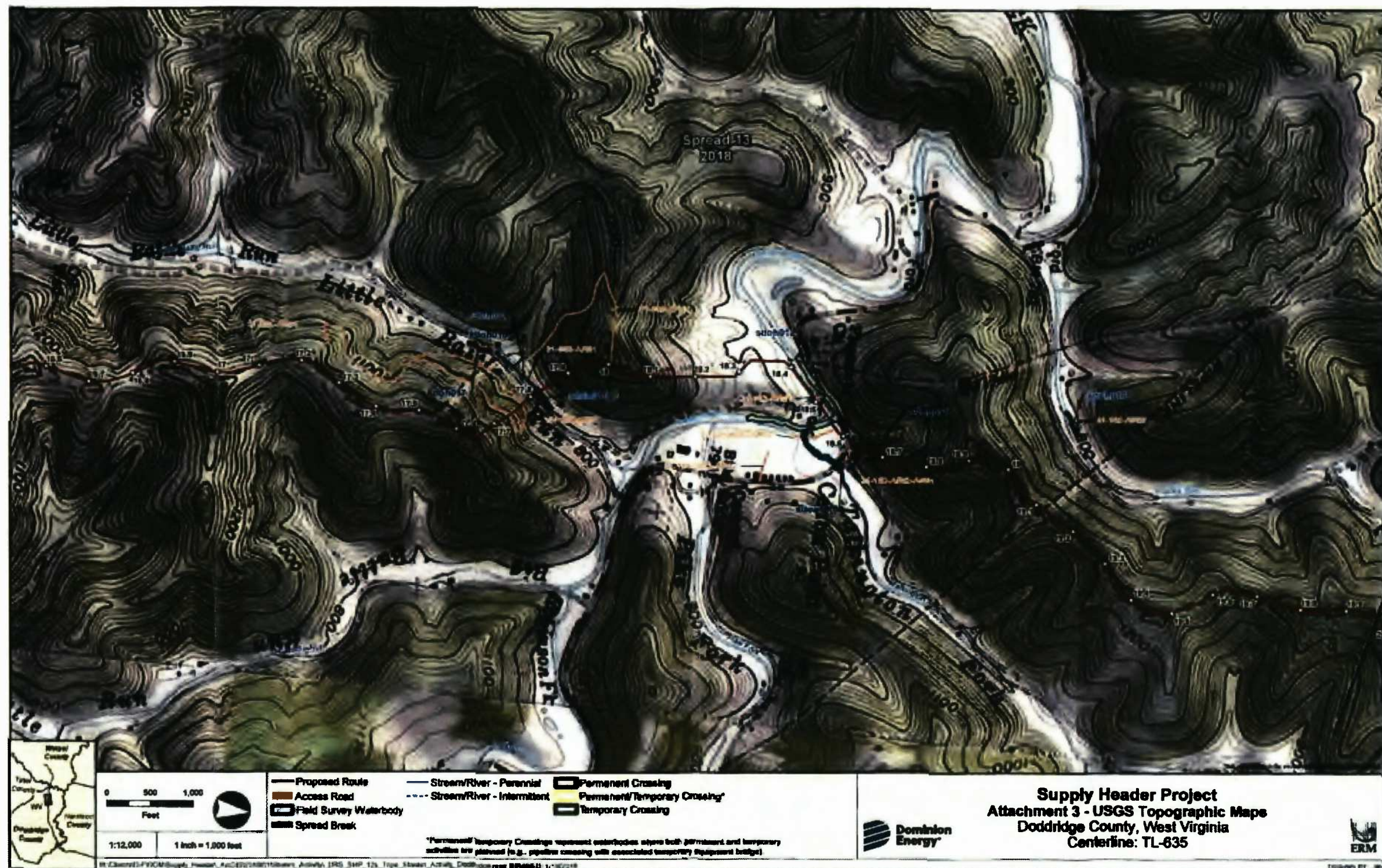


Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635



DRAWN BY: 1/1

© 2018 Dominion Energy. All rights reserved. This map is a reproduction of a USGS topographic map. Revised 1/18/2018.





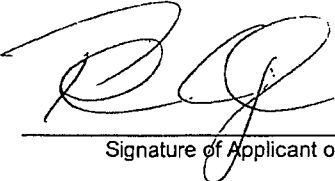
OFFICE OF LAND AND STREAMS
STREAM ACTIVITY APPLICATION

1. Name of Applicant: <u>Dominion Energy Transmission, Inc.</u> (Landowner)
2. Date: <u>January 18, 2018</u>
3. Complete mailing address of applicant: <u>707 E. Main Street, 19th Floor, Richmond, VA 23219</u> Telephone Number: <u>(804) 771-4468</u> Fax Number: _____ E-Mail Address: <u>leslie.hartz@dominionenergy.com</u>
4. Name, address, telephone number, and title of applicant's authorized agent (i.e. contractor employed by landowner): <u>Richard Gangle, Dominion Energy Services, Inc., 5000 Dominion Blvd, Glen Allen VA 23060</u>
Please <input checked="" type="checkbox"/> if you want the approval sent to the agent <input checked="" type="checkbox"/>
5. Describe the proposed activity, its purpose and intended use after completion, type of equipment to be used in the stream, amount of material to be dredged (if any), plan for disposing of dredged materials, length of stream/bank to be worked or type and size of structure to be placed in the stream (i.e. length and width of bridge, diameter and length of culvert). One copy of a map (topographical or detailed, hand-drawn) showing exact location of the work site (enabling Officials to locate site) must accompany this application, and all other information that may be important to this application. <p>Dominion Energy Transmission, Inc. (Dominion Energy) proposes to construct and operate approximately 37.5 miles of pipeline loop and modify existing compression facilities in Pennsylvania and West Virginia. This Project, referred to as the Supply Header Project (SHP), will enable Dominion Energy to provide firm transportation service of up to 1.5 million dekatherms per day to various customers, including Atlantic Coast Pipeline, LLC.</p> <p>This application addresses Project-specific permanent waterbody crossings in Doddridge County, West Virginia for 2018 construction activities associated with the SHP and related appurtenances. The waterbody crossings addressed herein are associated with installation of the pipeline at a minimum depth of cover of 5 feet below the bed of the waterbody and permanent improvements at waterbodies along access roads (e.g., culvert replacement or additions). Stream crossings will be done in a manner to reduce the amount of activities in the stream, and will be open cut but completed using dry crossing methods where perceptible water flow is present. Excavated material will be returned to the ditch, and streambanks will be stabilized according to Erosion and Sediment control plans approved by the West Virginia Department of Environmental Protection, according to FERC Plan and Procedures, and the SHP Restoration and Rehabilitation Plan. Construction activities will be conducted in accordance with federal, state, and local laws and permits.</p> <p>State regulatory classifications and time of year restrictions associated with these classifications are included in a table in Attachment 1 of this application package, which provides a summary table of SHP waterbody crossings. Attachment 2 of this application provides a summary of the permits being sought related to the waterbody crossing addressed in this application, and Attachment 3 includes USGS topographic maps for waterbody crossings in Doddridge County.</p> <p>This application includes a total of 22 permanent pipeline crossings of waterbodies, 1 permanent ground bed installation associated with cathodic protection, 2 culvert installations, and 14 waterbody impacts due to access road installation within waterbodies in Doddridge County.</p>
(if additional space is required, continue on a separate sheet)

OLS Form 1 (08/07)

P-18-VI/09 -476

SADB

6. Please <input checked="" type="checkbox"/> the proposed use:														
Private: _____ (person use)	Public: _____ (Government Agency)	Commerical: <input checked="" type="checkbox"/> _____ (Business)												
7. Location where proposed activity exists or will occur: See the tables and figures provided in Attachments Name of Water Way (if unnamed or unknown tributary, provide the stream that is flows into) <table style="width: 100%; border: none;"> <tr> <td style="border: none; width: 33%;"><u>Doddridge</u></td> <td style="border: none; width: 33%;"><u>Attachment 1</u></td> <td style="border: none; width: 33%;"><u>Attachment 1</u></td> </tr> <tr> <td style="border: none;">County</td> <td style="border: none;">District (taxable)</td> <td style="border: none;">Closest City or Town</td> </tr> </table>			<u>Doddridge</u>	<u>Attachment 1</u>	<u>Attachment 1</u>	County	District (taxable)	Closest City or Town						
<u>Doddridge</u>	<u>Attachment 1</u>	<u>Attachment 1</u>												
County	District (taxable)	Closest City or Town												
8. Date activity is proposed to commence: <u>April 2018</u> Date activity is expected to be complete: <u>November 2019</u>														
9. Is any portion of the activity for which authorization is sought now complete? Yes _____ No <input checked="" type="checkbox"/> (If the answer is "Yes", give reasons in Section 5 including month and year the activity was completed)														
10. Below is a list of entities that may require permits. Please list all approvals or certifications required by other Government Agencies for the above-described activity: <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">Issuing agency: Corps of Engineers – (304) 399-5710 (412) 395-7170 (412) 395-7157</td> <td style="width: 60%;">Type of approval: <u>See Attachment 2</u></td> </tr> <tr> <td>Identification No.: _____</td> <td>Date of approval: _____</td> </tr> <tr> <td>Issuing agency: County Commission Flood Plain Coordinator</td> <td>Type of approval: _____</td> </tr> <tr> <td>Identification No.: _____</td> <td>Date of approval: _____</td> </tr> <tr> <td>Issuing agency: City Government (if in City Limits the County isn't needed)</td> <td>Type of approval: _____</td> </tr> <tr> <td>Identification No.: _____</td> <td>Date of approval: _____</td> </tr> </table>			Issuing agency: Corps of Engineers – (304) 399-5710 (412) 395-7170 (412) 395-7157	Type of approval: <u>See Attachment 2</u>	Identification No.: _____	Date of approval: _____	Issuing agency: County Commission Flood Plain Coordinator	Type of approval: _____	Identification No.: _____	Date of approval: _____	Issuing agency: City Government (if in City Limits the County isn't needed)	Type of approval: _____	Identification No.: _____	Date of approval: _____
Issuing agency: Corps of Engineers – (304) 399-5710 (412) 395-7170 (412) 395-7157	Type of approval: <u>See Attachment 2</u>													
Identification No.: _____	Date of approval: _____													
Issuing agency: County Commission Flood Plain Coordinator	Type of approval: _____													
Identification No.: _____	Date of approval: _____													
Issuing agency: City Government (if in City Limits the County isn't needed)	Type of approval: _____													
Identification No.: _____	Date of approval: _____													
11. Has any agency denied approval for the activity described herein? Yes _____ No <input checked="" type="checkbox"/> (if "Yes", explain in Section 5 and/or attach a copy of the denial)														
12: If activity is a pipeline construction (that is, gas, water, or sewer) give: Material pipeline is made of: <u>Steel</u> Size of Pipeline: <u>30-inch diameter</u> Maximum pressure of the pipeline: <u>1,440 per square inch gauge</u> Please provide the appropriate line number and if a Gathering or Well Line provide the A.P.I. Well Number: Transmission: <input checked="" type="checkbox"/> Distribution: _____ Gathering: _____ Well Line: _____ A.P.I Well Number: _____														
13: Application is hereby made for authorization to conduct the activities described herein. I certify that I am familiar with the information in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities. <div style="text-align: center;"> _____ Signature of Applicant or Agent Office of Land and Streams Building 74, Room 200 324 Fourth Avenue South Charleston, WV 25303 Phone Number 304-558-3225 Fax Number 304-558-6048</div>														
OLS Form 1 (08/07)														

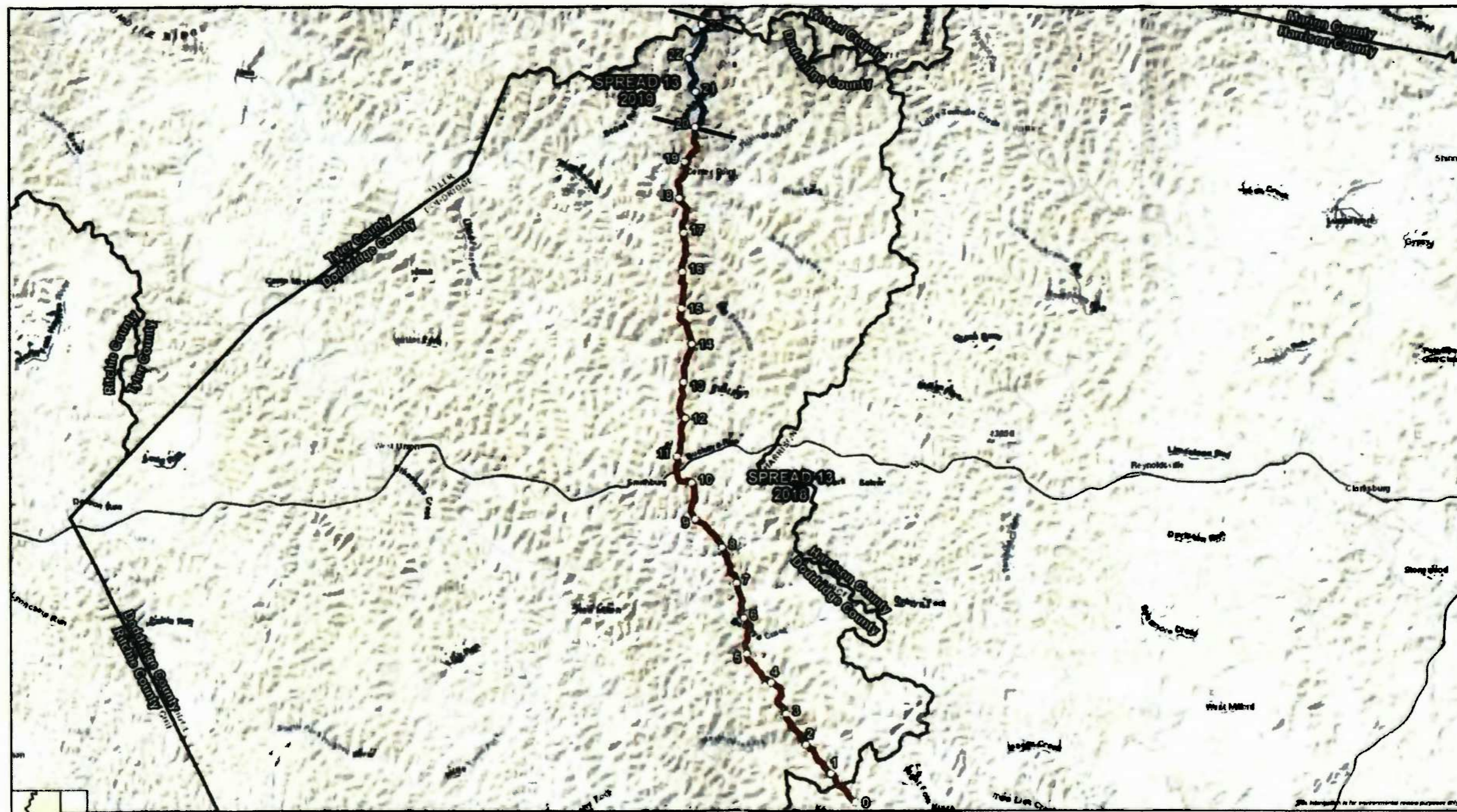
Mile post	Spread	Unique ID	County	District	Waterbody Name	Construction Method	Purpose for Impact	Latitude	Longitude
X 0.8	13	sdog001	Doddridge	Greenbrier	UNT to Dry Fork	Dam and Pump or Flume	1 Fill/Pipeline	39.179586	-80.569788
0.9	13	sdoj009	Doddridge	Greenbrier	Dry Fork	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.181446	-80.566341
0.9	13	sdoj010	Doddridge	Greenbrier	UNT to Dry Fork	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.181341	-80.566966
X 1.3	13	sdoh004	Doddridge	Greenbrier	Dry Fork	Dam and Pump or Flume	2 Fill/Pipeline	39.184636	-80.575073
X 1.4	13	sdoh003	Doddridge	Greenbrier	UNT to Dry Fork	Dam and Pump or Flume	3 Fill/Pipeline	39.186894	-80.575581
X 2.1	13	sdog014	Doddridge	Greenbrier	Meathouse Fork	Dam and Pump	4 Fill/Pipeline	39.192305	-80.583229
X 2.9	13	sdog015	Doddridge	Greenbrier	Johnson Fork	Dam and Pump or Flume	5 Fill/Pipeline	39.201259	-80.59138
2.9	13	sdog016	Doddridge	Greenbrier	UNT to Johnson Fork	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.201286	-80.59182
4	13	sdoa023	Doddridge	Greenbrier	UNT to Indian Fork	Perm AR - Replace culvert; add timber mats and stone over new culvert. Culvert will either be metal or dual wall plastic culvert, spanning a length up to 40' and will vary in width/diameter to meet the needs of the stream and its flow.	Access Road Installation	39.215121	-80.597186
X 4	13	sdog018	Doddridge	Greenbrier	UNT to Indian Fork	Dam and Pump	6 Fill/Pipeline	39.213753	-80.598066

X	4.6	13	sdog020	Doddridge	Greenbrier	UNT to Indian Fork	Dam and Pump	7	Fill/Pipeline	39.219177	-80.605066
	5	13	sdoj008	Doddridge	Greenbrier	Indian Fork	Perm AR - Add temporary bridge; restore to low water crossing after construction. Temporary bridge will either be built with timber mats or steel pipe bridge with matting on top.		Access Road Installation	39.223972	-80.604834
X	5.1	13	sdog022	Doddridge	Greenbrier	UNT to Indian Fork	Dam and Pump or Flume	8	Fill/Pipeline	39.224995	-80.609086
X	7.8	13	sdog033	Doddridge	Greenbrier	Buffalo Calf Fork	Dam and Pump	9	Fill/Pipeline	39.259398	-80.619254
	7.9	13	sdoj004	Doddridge	Greenbrier	UNT to Buffalo Calf Fork	Perm AR - Extend existing culvert; add timber mats and stone over existing/extended culvert.		Access Road Installation	39.261516	-80.618639
X	8.9	13	sdog023	Doddridge	Greenbrier	UNT to Buffalo Calf Fork	Dam and Pump or Flume	10	Fill/Pipeline	39.270407	-80.630282
	9.4	13	sdoj003	Doddridge	Grant	UNT to Long Run	Perm AR - Add timber mats and stone over existing culvert.		Access Road Installation	39.27793	-80.634554
X	9.4	13	sdog024	Doddridge	Grant	Long Run	Dam and Pump	11	Fill/Pipeline	39.276791	-80.633502
X	11	13	sdog025	Doddridge	Grant	Buckeye Run	Bore	12	Fill/Pipeline	39.28837	-80.640582
X	11	13	sdog026	Doddridge	Grant	UNT to Buckeye Run	Bore	13	Fill/Pipeline	39.288956	-80.640847

	12	13	sdoj001	Doddridge	Grant	UNT to Buckeye Run	Perm AR - Culvert maintenance required; add timber mats and stone over existing culvert.	Access Road Installation	39.302929	-80.635057
X	13	13	sdog028	Doddridge	Grant	Flint Run	Dam and Pump	14 Fill/Pipeline	39.319619	-80.638493
	14	13	sdoa003	Doddridge	Grant	UNT to Flint Run	Perm AR - Install culvert; add timber mats and stone over new culvert. Culvert will either be metal or dual wall plastic culvert, spanning a length up to 40' and will vary in width/diameter to meet the needs of the stream and its flow.	Add Culvert	39.334149	-80.6294
X	14	13	sdog007_1	Doddridge	Grant	UNT to Right Hand Fork East Run	Dam and Pump	15 Fill/Pipeline	39.335192	-80.638113
	14	13	sdoh021	Doddridge	Grant	UNT to Big Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.33906	-80.625286
X	15	13	sdog008	Doddridge	McClellan	UNT to Big Battle Run	Dam and Pump or Flume	16 Fill/Pipeline	39.348707	-80.638224
X	15	13	sdog009	Doddridge	McClellan	UNT to Big Battle Run	Dam and Pump or Flume	17 Fill/Pipeline	39.349295	-80.638171
	16	13	sdoh022	Doddridge	McClellan	Big Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.351876	-80.626248
X	16	13	sdoh009	Doddridge	McClellan	UNT to Big Battle Run	Dam and Pump	18 Fill/Pipeline	39.355277	-80.636984
X	16	13	sdoh008_1	Doddridge	McClellan	UNT to Big Battle Run	Dam and Pump or Flume	19 Fill/Pipeline	39.35664	-80.637486

	16	13	sdoh008_2	Doddridge	McClellan	UNT to Big Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.35664	-80.637486
	16	13	sdog030	Doddridge	McClellan	UNT to Big Battle Run	Perm AR - Install culvert; add timber mats and stone over new culvert. Culvert will either be metal or dual wall plastic culvert, spanning a length up to 40' and will vary in width/diameter to meet the needs of the stream and its flow.	Add Culvert	39.357083	-80.637542
	17	13	sdoh023_1	Doddridge	McClellan	Big Battle Run	Perm AR - Install temporary bridge; restore to low water crossing after construction. Temporary bridge will either be built with timber mats or steel pipe bridge with matting on top.	Access Road Installation	39.363924	-80.622467
X	18	13	sdoh010_1	Doddridge	McClellan	Little Battle Run	Dam and Pump	20 Fill/Pipeline	39.383467	-80.637767
	18	13	sdoh010_2	Doddridge	McClellan	Little Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.383467	-80.637767
X	18	13	sdoh011	Doddridge	McClellan	UNT to Little Battle Run	Dam and Pump	21 Fill/Groundbed Anodes	39.383011	-80.63874
	18	13	sdoh017	Doddridge	McClellan	Little Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.381653	-80.639107
X	19	13	sdoh012	Doddridge	McClellan	McElroy Creek	Dam and Pump	22 Fill/Pipeline	39.392123	-80.638051

X	19	13	sdog0 31	Doddridge	McClellan	UNT to McElroy Creek	Dam and Pump	23	Fill/Pipeline	39.393894	-80.637085
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- 2018 Construction Spread
- 2019 Construction Spread
- Spread Break



**Supply Header Pipeline
Attachment 3 - County Overview Map
Doddridge County, West Virginia**



Dominion Energy Services, Inc.
5000 Dominion Boulevard
Glen Allen, VA 23060
DominionEnergy.com



January 19, 2018

BY OVERNIGHT (OR EXPRESS) MAIL

Received
JAN 2018
Land & Streams

Ms. Carrie Brooks
Office of Land and Streams
Building 74, Room 200
324 Fourth Avenue
South Charleston, WV 25303
Carrie.T.Brooks@wv.gov

**Re: Dominion Energy Services, Inc., Supply Header Project
West Virginia Stream Activity Permit for 2018 Construction Spread Activities**

Dear Ms. Brooks:

Please find enclosed Stream Activity Permit applications for the Supply Header Project (SHP) in Harrison, Doddridge, and Wetzel Counties in West Virginia. The SHP will be constructed and operated by Dominion Energy Transmission, Inc. (DETI).

DETI is submitting the enclosed applications for stream crossing activities that are planned for 2018 construction. Construction activities for the SHP will continue into 2019, and DETI intends to submit additional applications later in 2018 to permit stream crossings planned for 2019 construction. Maps enclosed with the applications illustrate the full extent of the project in each county, identifying the stream crossings included within the applications. For convenience of review, DETI has divided each county into separate applications for permanent and temporary stream crossings. Therefore, there are five applications enclosed, a permanent and temporary stream activity permit application for Doddridge and Wetzel Counties and a temporary stream activity permit application for Harrison County. There are no permanent stream crossings proposed for the SHP in Harrison County. The SHP also crosses Tyler County; however, stream crossings in this county are planned for 2019 construction.

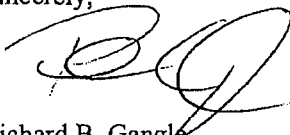
DETI appreciates the coordination to date and looks forward to continuing to work with you on this project. Please contact Staci Rogge at (804) 273-2906 or Staci.L.Rogge@dominionenergy.com, if there are questions regarding this submittal.

Supply Header Project
West Virginia – Division of Natural Resources, Office of Land and Streams
Stream Activity Permit
January 19, 2018
Page 2 of 2

Please direct written responses to:

Richard Gangle
Dominion Energy Services, Inc.
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Sincerely,



Richard B. Gangle
Environmental Manager, Supply Header Project

cc: Staci Rogge, Dominion Energy Services, Inc.

Enclosures: A total of five stream activity permit applications; permanent and temporary stream activity permit applications for Doddridge and Wetzel Counties and a temporary stream activity permit application for Harrison County



DIVISION OF NATURAL RESOURCES
324 Fourth Avenue, Room 200
South Charleston, West Virginia 25303-1228
Telephone (304) 558-3225
Fax (304) 558-6048
TDD (304) 558-1439
TDD 1-800-354-6087

Stephen S. McDaniel
Director

March 6, 2018

MAR15 18 2:05PM

Division of Natural Resources
Office of Land and Streams
LICENSE and RIGHT of ENTRY

Re: **LS-18-VI/09-477**

Dominion Energy Transmission, Inc.
c/o Dominion Energy Services, Inc.
Attention: Richard Gangle
5000 Dominion Blvd.
Glen Allen, VA 23060-

Dear Sir or Madam:

The West Virginia Division of Natural Resources (WVDNR) hereby grants to you for a term of ten (10) years, from the date hereof, a License and Right of Entry to install and maintain a matting bridge or a gravel/flume, or steel pipe bridge crossing (depending on conditions at time of crossing), and installing, maintaining, or extending a forty foot (40') culvert in the streambeds of varying widths with a matting crossing over top at various locations (See Exhibit A - H) (Supply Header Project) along Dry Fork, unnamed tributaries of Dry Fork, Meathouse Fork, Johnson Fork, an unnamed tributary of Johnson Fork, Indian Fork, unnamed tributaries of Indian Fork, Buckeye Creek, Buffalo Calf Fork, unnamed tributaries of Buffalo Calf Fork, Long Run, an unnamed tributary of Long Run, Buckeye Run, unnamed tributaries of Buckeye Run, Flint Run, unnamed tributaries of Flint Run, unnamed tributaries of Right Hand Fork East Run, Big Battle Run, unnamed tributaries of Big Battle Run, Little Battle Run, unnamed tributaries of Little Battle Run, McElroy Creek, an unnamed tributary of McElroy Creek, Talkington Fork, Franks Run, Greenbrier, Grant, and McClellan Districts in Doddridge County, West Virginia.

The issuance of this License and Right of Entry by the WVDNR does not preclude the necessity to obtain permits from the U.S. Army Corps of Engineers (USACE), W.V. Department of Environmental Protection (WVDEP), or the W.V. Division of Homeland Security and Emergency Management (WVDHSEM). The Right of Entry does not negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations.

The applicant must contact the following agencies and abide by the following conditions, paying particular attention to **Condition Numbers 6 & 7** for guidance on mussel stream impacts:

1. The USACE may require either a Clean Water Act 404 permit or a Nationwide Permit. Contact the Huntington District (304-399-5210) or the Pittsburgh District (412-395-7155) from more

information. Information can also be found at
<http://www.lrh.usace.army.mil/Missions/Regulatory.aspx>

2. The WVDEP (304-926-0499) may require the following permits:
 - a. A Clean Water Act Section 401 Water Quality Certification
<http://www.dep.wv.gov/WWE/Programs/Pages/401Certification.aspx>
 - b. Construction Stormwater Site Registration and Notice of Intent. Not needed if disturbance less than 1-acre http://dep.wv.gov/WWE/Programs/stormwater/Pages/sw_home.aspx
3. The WVDEP Erosion and Sediment Control Best Management Practice Manual, Revised 2016, must be followed. Copies of those guidelines are available from the Division of Water and Waste Management, (304) 926-0495 or at
http://www.dep.wv.gov/WWE/Programs/stormwater/csw/Pages/ESC_BMP.aspx
4. The WVDHSEM may require a Floodplain Permit. WVDHSEM can be contacted at: (304) 957-2571
5. No in-stream work during the cold water and warm water fish spawning seasons (September 15- March 31 and April 1- June 30, respectively). If in-stream impacts cannot be avoided during the applicable fish spawning season, contact the WVDNR Environmental Coordination Unit at (304) 637-0245.
6. Threatened or Endangered aquatic species identified by the U.S. Fish and Wildlife Service are listed in Appendix A of the 2017 USACE Nationwide Permits. The U.S. Fish and Wildlife Service Field Office should be contacted (304) 636-6568 for any activity in waterways listed in Appendix A.
<http://www.lrp.usace.army.mil/Portals/72/docs/regulatory/2017%20Public%20Notices/West%20Virginia%20-%20NWP%20March%202017%20PN.pdf?ver=2017-03-22-095505-870>
7. Survey requirements for streams with mussel populations are described in the West Virginia Mussel Survey Protocols. Contact the WVDNR Environmental Coordination Unit for information concerning mussels at (304) 637-0245.
<http://www.wvdnr.gov/Mussels/West%20Virginia%20Mussel%20Survey%20Protocols%20APR2016.pdf>

Additionally, this Right of Entry does not provide for the applicant to work outside the requested boundaries. The State does not 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. 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 the applicant fails or refuses 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 WVDNR may reject further applications.**

Dominion Energy Transmission, Inc.
LS-18-VI/09-477
Page 3
March 6, 2018

Your payment is now due and payable in the amount of \$5200.00 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

attachment

pc: DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
DNR Conservation Officers
DNR Coordination Unit

Exhibit A

LS-18-VI/09-477

Mil epo st	Sp re ad	Uniqu e ID	County	District	Waterbody Name	Construction Method	Purpose for Impact
0.8	13	sdog001	Doddridge	Greenbrier	UNT to Dry Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
0.8	13	sdog002	Doddridge	Greenbrier	UNT to Dry Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
1.3	13	sdoh004	Doddridge	Greenbrier	Dry Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
1.4	13	sdoh003	Doddridge	Greenbrier	UNT to Dry Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
2.1	13	sdog014	Doddridge	Greenbrier	Meathouse Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
2.9	13	sdog015	Doddridge	Greenbrier	Johnson Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
4	13	sdog018	Doddridge	Greenbrier	UNT to Indian Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
4.6	13	sdog020	Doddridge	Greenbrier	UNT to Indian Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge

Exhibit B

LS-18-VI/09-477

5.1	13	sdog022	Doddridge	Greenbrier	UNT to Indian Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
5.1	13	sdoj007_1	Doddridge	Greenbrier	Indian Fork	Temp AR - Add temporary timber mats and stone over existing culvert.	Temporary Bridge
5.4	13	sdoj007_2	Doddridge	Greenbrier	Indian Fork	Temp AR - Install temporary bridge; bridge will either be built with timber mats or steel pipe bridge with matting on top.	Temporary Bridge
5.4	13	sdoa021	Doddridge	Greenbrier	Buckeye Creek	Temp AR - Install temporary bridge; bridge will either be built with timber mats or steel pipe bridge with matting on top.	Temporary Bridge
7.8	13	sdoj005	Doddridge	Greenbrier	Buffalo Calf Fork	Perm AR - No permanent improvement needed in waterbody	Temporary Bridge
7.8	13	sdog033	Doddridge	Greenbrier	Buffalo Calf Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
7.9	13	sdog034	Doddridge	Greenbrier	UNT Buffalo Calf Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
8.9	13	sdog023	Doddridge	Greenbrier	UNT to Buffalo Calf Fork	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
9.4	13	sdog024	Doddridge	Grant	Long Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
11	13	sdog025	Doddridge	Grant	Buckeye Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge

Exhibit C

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11	13	sdog026	Doddridge	Grant	UNT to Buckeye Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
13	13	sdog028	Doddridge	Grant	Flint Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
14	13	sdoh019	Doddridge	Grant	UNT to Flint Run	Perm AR - Add temporary timber mats over existing culvert; no permanent improvement needed in waterbody.	Temporary Bridge
14	13	sdog007_1	Doddridge	Grant	UNT to Right Hand Fork East Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
14	13	sdog007_2	Doddridge	Grant	UNT to Right Hand Fork East Run	Temp AR - Install temporary bridge; bridge will either be built with timber mats or steel pipe bridge with matting on top.	Temporary Bridge
14	13	sdoh020	Doddridge	Grant	UNT to Right Hand Fork	Temp AR - Install temporary bridge; bridge will either be built with timber mats or steel pipe bridge with matting on top.	Temporary Bridge
14	13	sdog029	Doddridge	Grant	UNT to Right Hand Fork East Run	Temp AR - Install temporary bridge; bridge will either be built with timber mats or steel pipe bridge with matting on top.	Temporary Bridge
15	13	sdog008	Doddridge	McClellan	UNT to Big Battle Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
15	13	sdog009	Doddridge	McClellan	UNT to Big Battle Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
16	13	sdoh009	Doddridge	McClellan	UNT to Big Battle Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge

Exhibit D

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16	13	sdoh008_1	Doddridge	McClellan	UNT to Big Battle Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
17	13	sdoh023_2	Doddridge	McClellan	Big Battle Run	Perm AR - Add temporary timber mats over existing bridge.	Temporary Bridge
17	13	sdoh024	Doddridge	McClellan	UNT to Big Battle Run	Perm AR - Add temporary timber mats over existing bridge.	Temporary Bridge
18	13	sdoh010_1	Doddridge	McClellan	Little Battle Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
18	13	sdoh011	Doddridge	McClellan	UNT to Little Battle Run	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
19	13	sdoh012	Doddridge	McClellan	McElroy Creek	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
19	13	sdog031	Doddridge	McClellan	UNT to McElroy Creek	Pipeline ROW - Temporary access across waterbody within the pipeline ROW will either be by mat bridging or gravel/flume depending on conditions at time of crossing.	Temporary Bridge
19	13	sdoa100	Doddridge	McClellan	Talkington Fork	Temp AR - Install temporary bridge; bridge will either be built with timber mats or steel pipe bridge with matting on top.	Temporary Bridge
19	13	sdoh016	Doddridge	McClellan	Franks Run	Perm AR - Add metal plating over existing bridge	Temporary Bridge

Exhibit E

LS-18-VI/09-477

Mile post	Spread	Unique ID	County	District	Waterbody Name	Construction Method	Purpose for Impact	Latitude	Longitude
0.8	13	sdog001	Doddridge	Greenbrier	UNT to Dry Fork	Dam and Pump or Flume	Fill/Pipeline	39.179586	-80.569788
X 0.9	13	sdoj009	Doddridge	Greenbrier	Dry Fork	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.181446	-80.566341
X 0.9	13	sdoj010	Doddridge	Greenbrier	UNT to Dry Fork	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.181341	-80.566966
1.3	13	sdoh004	Doddridge	Greenbrier	Dry Fork	Dam and Pump or Flume	Fill/Pipeline	39.184636	-80.575073
1.4	13	sdoh003	Doddridge	Greenbrier	UNT to Dry Fork	Dam and Pump or Flume	Fill/Pipeline	39.186894	-80.575581
2.1	13	sdog014	Doddridge	Greenbrier	Meathouse Fork	Dam and Pump	Fill/Pipeline	39.192305	-80.583229
2.9	13	sdog015	Doddridge	Greenbrier	Johnson Fork	Dam and Pump or Flume	Fill/Pipeline	39.201259	-80.59138
X 2.9	13	sdog016	Doddridge	Greenbrier	UNT to Johnson Fork	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.201286	-80.59182
X 4	13	sdoa023	Doddridge	Greenbrier	UNT to Indian Fork	Perm AR - Replace culvert; add timber mats and stone over new culvert. Culvert will either be metal or dual wall plastic culvert, spanning a length up to 40' and will vary in width/diameter to meet the needs of the stream and its flow.	Access Road Installation	39.215121	-80.597186
4	13	sdog018	Doddridge	Greenbrier	UNT to Indian Fork	Dam and Pump	Fill/Pipeline	39.213753	-80.598066

Exhibit F

LS-18-VI/09-477

4.6	13	sdog020	Doddridge	Greenbrier	UNT to Indian Fork	Dam and Pump	Fill/Pipeline	39.219177	-80.605066
X 5	13	sdoj008	Doddridge	Greenbrier	Indian Fork	Perm AR - Add temporary bridge; restore to low water crossing after construction. Temporary bridge will either be built with timber mats or steel pipe bridge with matting on top.	Access Road Installation	39.223972	-80.604834
5.1	13	sdog022	Doddridge	Greenbrier	UNT to Indian Fork	Dam and Pump or Flume	Fill/Pipeline	39.224995	-80.609086
7.8	13	sdog033	Doddridge	Greenbrier	Buffalo Calf Fork	Dam and Pump	Fill/Pipeline	39.259398	-80.619254
X 7.9	13	sdoj004	Doddridge	Greenbrier	UNT to Buffalo Calf Fork	Perm AR - Extend existing culvert; add timber mats and stone over existing/extended culvert.	Access Road Installation	39.261516	-80.618639
8.9	13	sdog023	Doddridge	Greenbrier	UNT to Buffalo Calf Fork	Dam and Pump or Flume	Fill/Pipeline	39.270407	-80.630282
X 9.4	13	sdoj003	Doddridge	Grant	UNT to Long Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.27793	-80.634554
9.4	13	sdog024	Doddridge	Grant	Long Run	Dam and Pump	Fill/Pipeline	39.276791	-80.633502
11	13	sdog025	Doddridge	Grant	Buckeye Run	Bore	Fill/Pipeline	39.28837	-80.640582
11	13	sdog026	Doddridge	Grant	UNT to Buckeye Run	Bore	Fill/Pipeline	39.288956	-80.640847

Exhibit G

LS-18-VI/09-477

X	12	13	sdoj001	Doddridge	Grant	UNT to Buckeye Run	Perm AR - Culvert maintenance required; add timber mats and stone over existing culvert.	Access Road Installation	39.302929	-80.635057
	13	13	sdog028	Doddridge	Grant	Flint Run	Dam and Pump	Fill/Pipeline	39.319619	-80.638493
X	14	13	sdoa003	Doddridge	Grant	UNT to Flint Run	Perm AR - Install culvert; add timber mats and stone over new culvert. Culvert will either be metal or dual wall plastic culvert, spanning a length up to 40' and will vary in width/diameter to meet the needs of the stream and its flow.	Add Culvert	39.334149	-80.6294
	14	13	sdog007_1	Doddridge	Grant	UNT to Right Hand Fork East Run	Dam and Pump	Fill/Pipeline	39.335192	-80.638113
X	14	13	sdoh021	Doddridge	Grant	UNT to Big Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.33906	-80.625286
	15	13	sdog008	Doddridge	McClellan	UNT to Big Battle Run	Dam and Pump or Flume	Fill/Pipeline	39.348707	-80.638224
	15	13	sdog009	Doddridge	McClellan	UNT to Big Battle Run	Dam and Pump or Flume	Fill/Pipeline	39.349295	-80.638171
X	16	13	sdoh022	Doddridge	McClellan	Big Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.351876	-80.626248
	16	13	sdoh009	Doddridge	McClellan	UNT to Big Battle Run	Dam and Pump	Fill/Pipeline	39.355277	-80.636984
	16	13	sdoh008_1	Doddridge	McClellan	UNT to Big Battle Run	Dam and Pump or Flume	Fill/Pipeline	39.35664	-80.637486

X	16	13	sdoh008_2	Doddridge	McClellan	UNT to Big Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.35664	-80.637486
X	16	13	sdog030	Doddridge	McClellan	UNT to Big Battle Run	Perm AR - Install culvert; add timber mats and stone over new culvert. Culvert will either be metal or dual wall plastic culvert, spanning a length up to 40' and will vary in width/diameter to meet the needs of the stream and its flow.	Add Culvert	39.357083	-80.637542
X	17	13	sdoh023_1	Doddridge	McClellan	Big Battle Run	Perm AR - Install temporary bridge; restore to low water crossing after construction. Temporary bridge will either be built with timber mats or steel pipe bridge with matting on top.	Access Road Installation	39.363924	-80.622467
	18	13	sdoh010_1	Doddridge	McClellan	Little Battle Run	Dam and Pump	Fill/Pipeline	39.383467	-80.637767
X	18	13	sdoh010_2	Doddridge	McClellan	Little Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.383467	-80.637767
	18	13	sdoh011	Doddridge	McClellan	UNT to Little Battle Run	Dam and Pump	Fill/Groundbed Anodes	39.383011	-80.63874
X	18	13	sdoh017	Doddridge	McClellan	Little Battle Run	Perm AR - Add timber mats and stone over existing culvert.	Access Road Installation	39.381653	-80.639107
	19	13	sdoh012	Doddridge	McClellan	McElroy Creek	Dam and Pump	Fill/Pipeline	39.392123	-80.638051

OFFICE OF LAND AND STREAMS
STREAM ACTIVITY APPLICATION

1. Name of Applicant: Dominion Energy Transmission, Inc.
(Landowner)

2. Date: January 18, 2018

3. Complete mailing address of applicant: 707 E. Main Street, 19th Floor, Richmond, VA 23219

Telephone Number: (804) 771-4468

Fax Number: _____

E-Mail Address: leslie.hartz@dominionenergy.com

4. Name, address, telephone number, and title of applicant's authorized agent (i.e. contractor employed by landowner):
Richard Gangle, Dominion Energy Services, Inc., 5000 Dominion Blvd, Glen Allen VA 23060

Please if you want the approval sent to the agent

5. Describe the proposed activity, its purpose and intended use after completion, type of equipment to be used in the stream, amount of material to be dredged (if any), plan for disposing of dredged materials, length of stream/bank to be worked or type and size of structure to be placed in the stream (i.e. length and width of bridge, diameter and length of culvert). **One copy of a map (topographical or detailed, hand-drawn) showing exact location of the work site (enabling Officials to locate site) must accompany this application**, and all other information that may be important to this application.

Dominion Energy Transmission, Inc. (Dominion Energy) proposes to construct and operate approximately 37.5 miles of pipeline loop and modify existing compression facilities in Pennsylvania and West Virginia. This Project, referred to as the Supply Header Project (SHP), will enable Dominion Energy to provide firm transportation service of up to 1.5 million dekatherms per day to various customers, including Atlantic Coast Pipeline, LLC.

This application addresses Project-specific temporary waterbody crossings in Doddridge County, West Virginia for 2018 construction activities associated with the SHP and related appurtenances. The waterbody crossings addressed herein are associated with temporary bridging needs along the pipeline right-of-way and temporary access roads that will allow pipeline construction equipment the ability to traverse across waterbodies. During the clearing and grading phase of construction, temporary equipment bridges will be installed across waterbodies in accordance with the Procedures to allow construction equipment and personnel to cross and will remain in place until restoration activities are complete. The temporary bridges may include clean rock fill over culverts, timber mats supported by flumes, railcar flatbeds, flexi-float apparatuses, or other types of spans. Where culverts are replaced along access roads for the SHP, culverts will be replaced with the same size and length culverts and inverts will remain the same as the pre-construction condition. Culvert replacement will be completed in an expedient manner and disturbed areas adjacent to culverts will be re-stabilized according to project permits, restoration plans, and the FERC Plan and Procedures. Where culverts are proposed for being cleaned out along access roads for the SHP, excess sediment will be removed from the inlet and outlet of the culvert, and within the culvert to the extent practicable, without removing the culvert. The invert of the culvert will remain the same. Adjacent work areas disturbed during the activity will be re-stabilized according to project permits, restoration plans, and the FERC Plan and Procedures.

Construction equipment will be required to use the bridges, except that the clearing and bridge installation crews will be allowed one pass through waterbodies before bridges are installed. The temporary bridges and temporary access road improvements will be removed when construction and restoration activities are complete. Construction activities will be conducted in accordance with federal, state, and local laws and permits.

Attachment 1 of this application package provides a summary table of the SHP waterbody crossings. Attachment 2 of this application provides a summary of the permits being sought related to the waterbody crossing addressed in this application, and Attachment 3 includes USGS topographic maps for waterbody crossings in Doddridge County.

This application includes a total of 37 temporary waterbody crossings associated with bridging along the pipeline right-of-way in Doddridge County.

(if additional space is required, continue on a separate sheet)

LS - VI / 9 - 4/27/18
J. Inher
SKDB

6. Please the proposed use:
 Private: _____ Public: _____ Commerical: ✓
 (person use) (Government Agency) (Business)

7. Location where proposed activity exists or will occur:
See the tables and figures provided in Attachments
 Name of Water Way (if unnamed or unknown tributary, provide the stream that is flows into)
Doddridge Attachment 1 Attachment 1
 County District (taxable) Closest City or Town

8. Date activity is proposed to commence: April 2018
 Date activity is expected to be complete: November 2019

9. Is any portion of the activity for which authorization is sought now complete? Yes _____ No ✓
 (If the answer is "Yes", give reasons in Section 5 including month and year the activity was completed)

10. Below is a list of entities that may require permits. Please list all approvals or certifications required by other Government Agencies for the above-described activity:

Issuing agency: Corps of Engineers – (304) 399-5710 Type of approval: See Attachment 2
 (412) 395-7170
 (412) 395-7157
 Identification No.: _____ Date of approval: _____

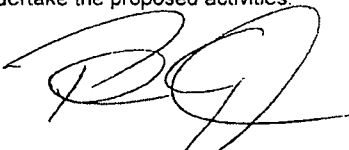
Issuing agency: County Commission Type of approval: _____
 Flood Plain Coordinator
 Identification No.: _____ Date of approval: _____

Issuing agency: City Government Type of approval: _____
 (if in City Limits the County isn't needed)
 Identification No.: _____ Date of approval: _____

11. Has any agency denied approval for the activity described herein? Yes _____ No ✓
 (if "Yes", explain in Section 5 and/or attach a copy of the denial)

12. If activity is a pipeline construction (that is, gas, water, or sewer) give:
 Material pipeline is made of: Steel
 Size of Pipeline: 30-inch diameter
 Maximum pressure of the pipeline: 1,440 per square inch gauge
 Please provide the appropriate line number and if a Gathering or Well Line provide the A.P.I. Well Number:
 Transmission: x Distribution: _____ Gathering: _____ Well Line: _____ A.P.I Well Number: _____

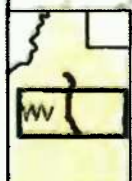
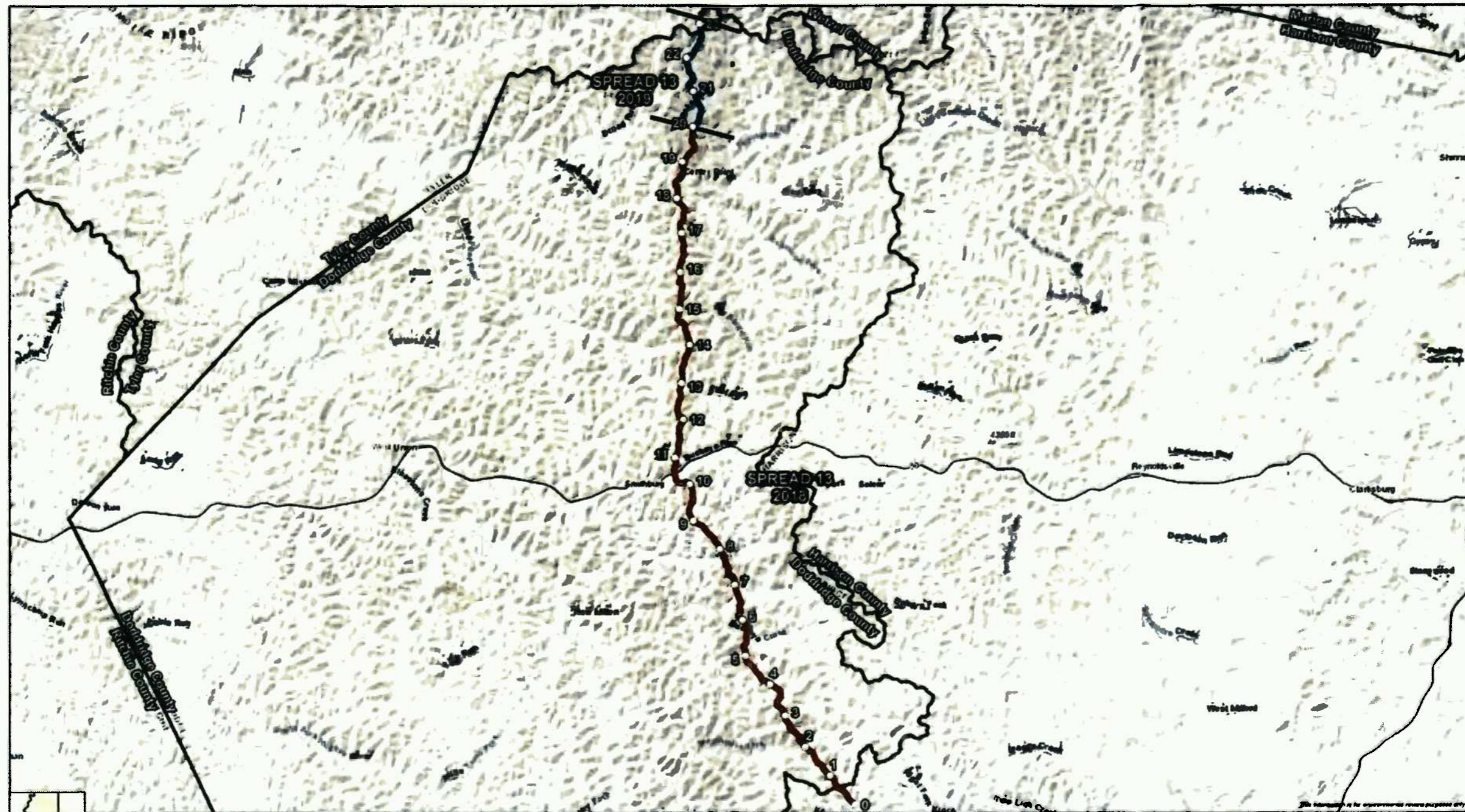
13. Application is hereby made for authorization to conduct the activities described herein. I certify that I am familiar with the information in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.



 Signature of Applicant or Agent

Office of Land and Streams
 Building 74, Room 200
 324 Fourth Avenue
 South Charleston, WV 25303
 Phone Number 304-558-3225
 Fax Number 304-558-6048

OLS Form 1 (08/07)

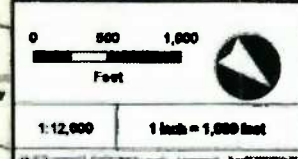
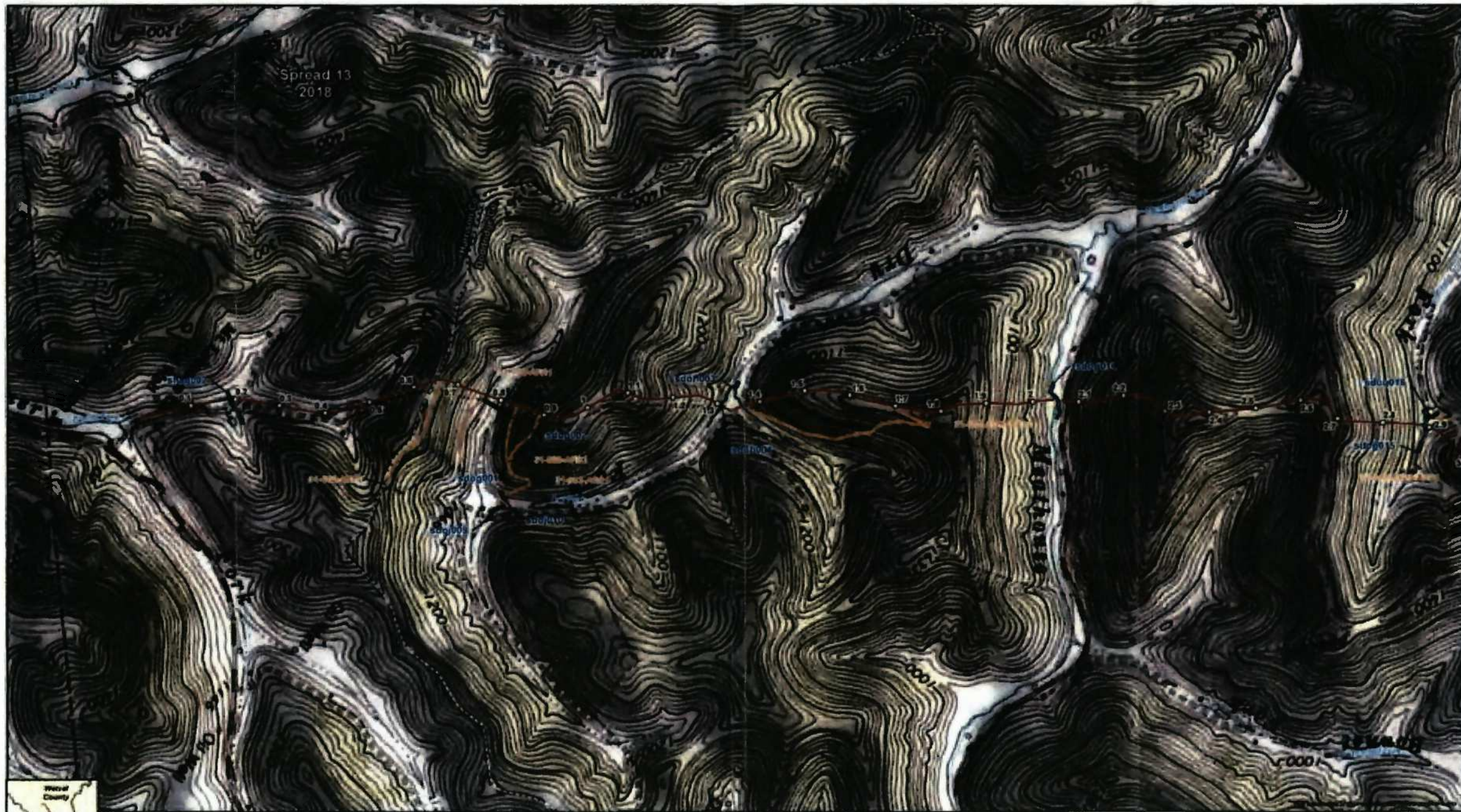


- 2018 Construction Spread
- 2019 Construction Spread
- Spread Break



Supply Header Pipeline
Attachment 3 - County Overview Map
Doddridge County, West Virginia





Proposed Route	Stream/River - Perennial	Permanent Crossing
Access Road	Stream/River - Intermittent	Permanent/Temporary Crossing*
Field Survey Waterbody	County Boundary	Temporary Crossing

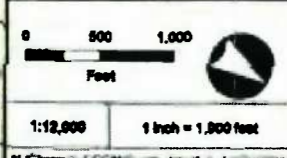
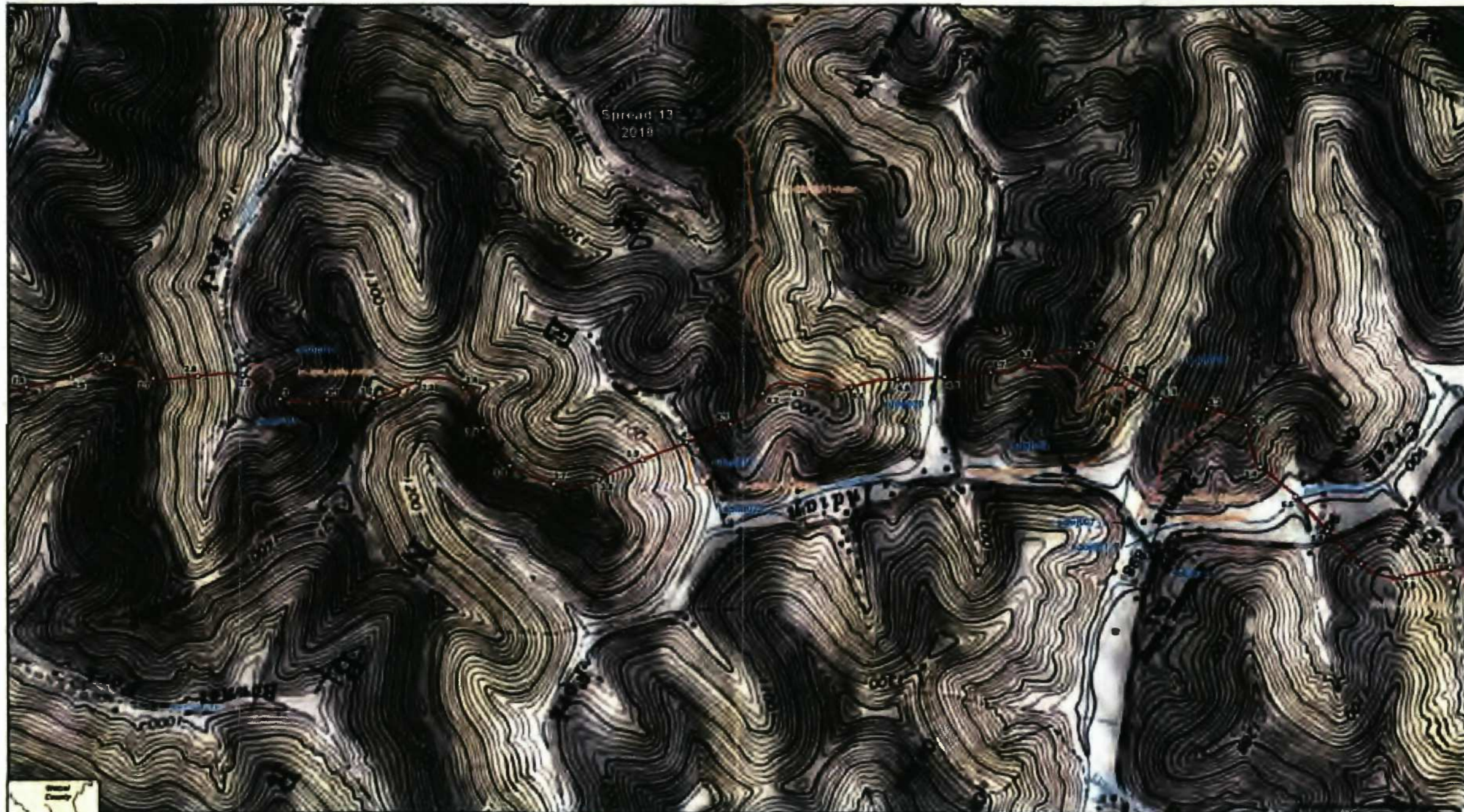
*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g., pipeline crossing with associated temporary equipment bridge).



Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635



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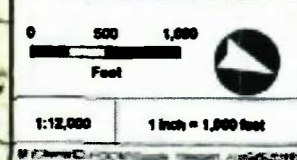
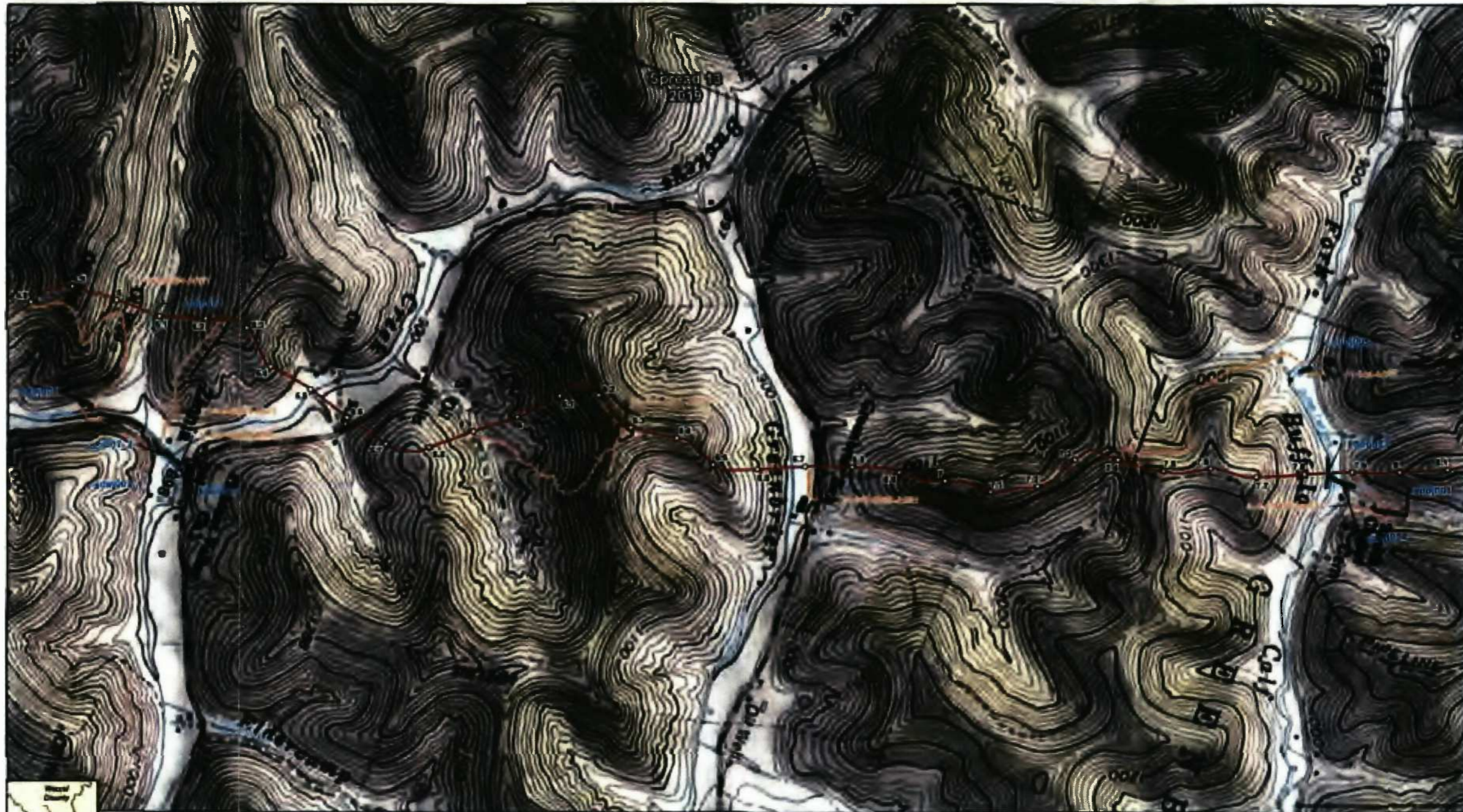
Proposed Route	Stream/River - Perennial	Permanent Crossing
Access Road	Stream/River - Intermittent	Permanent/Temporary Crossing*
Field Survey Waterbody	Temporary Crossing	
Spread Break		

*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g., pipeline crossing with associated temporary equipment bridge).



Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635





Proposed Route	Stream/River - Perennial	Permanent Crossing
Access Road	Stream/River - Intermittent	Permanent/Temporary Crossing*
Field Survey Waterbody		Temporary Crossing
Spread Break		

*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g. pipeline crossing with associated temporary equipment bridge).

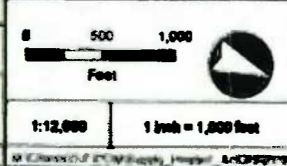
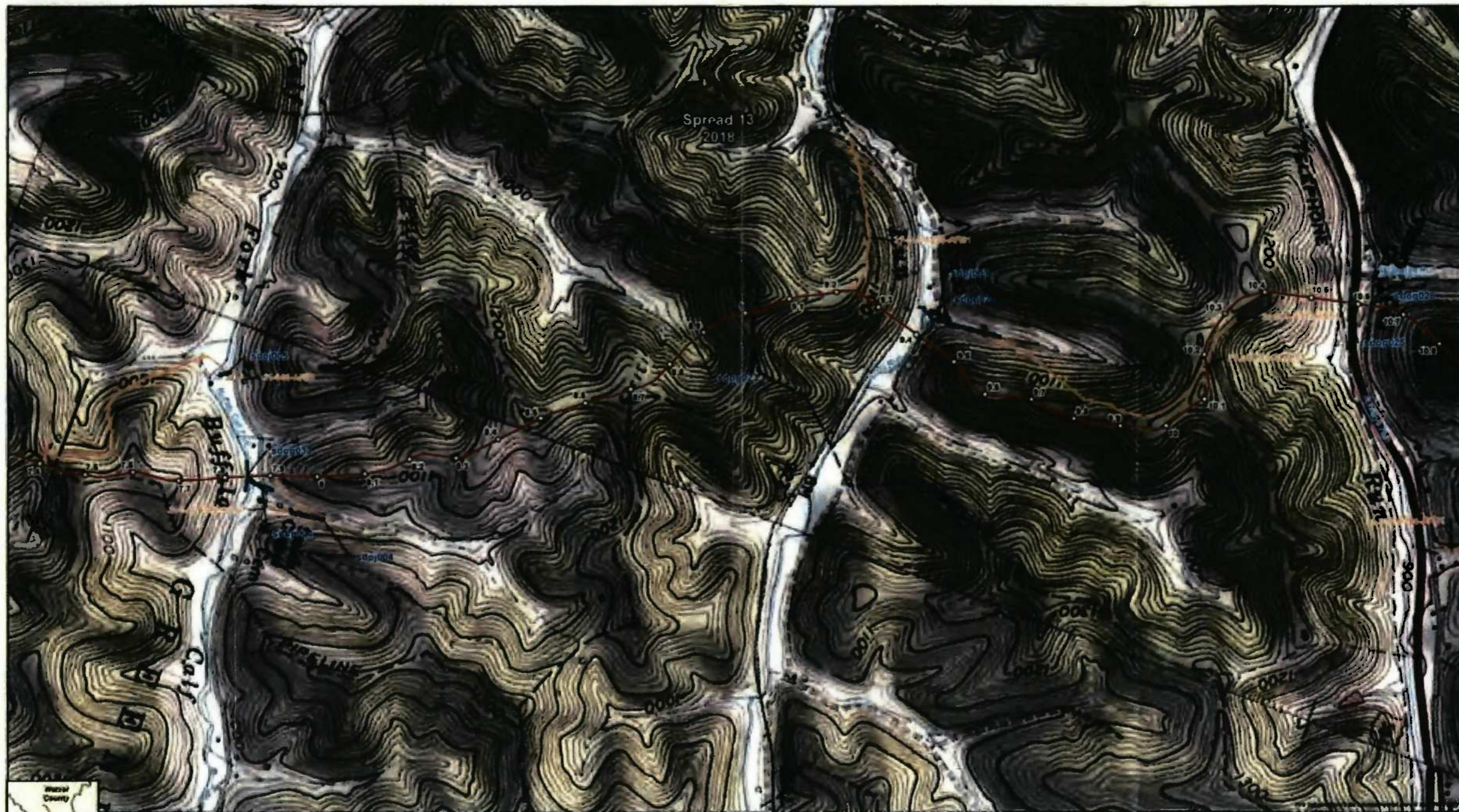


Supply Header Project
 Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635



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19	13	sdog0 31	Doddridge	McClellan	UNT to McElroy Creek	Dam and Pump	Fill/Pipeline	39.393894	-80.637085
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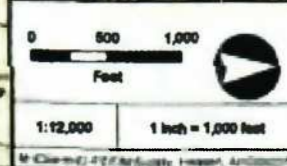
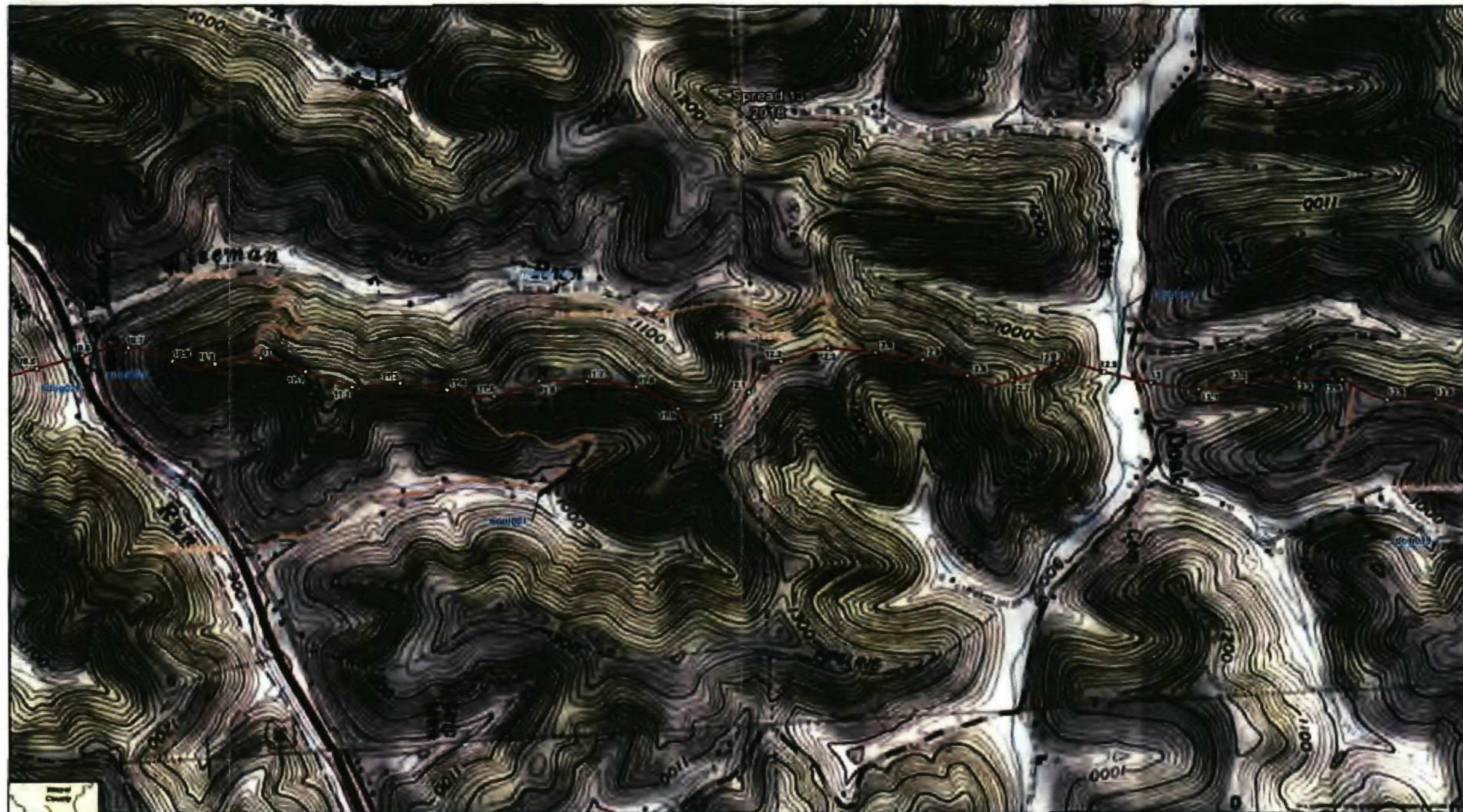
- | | | |
|------------------------|-----------------------------|-------------------------------|
| Proposed Route | Stream/River - Perennial | Permanent Crossing |
| Access Road | Stream/River - Intermittent | Permanent/Temporary Crossing* |
| Field Survey Waterbody | Temporary Crossing | |
| Spread Break | | |
- *Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g. pipeline crossing with associated temporary equipment bridge).



Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635



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Proposed Route	Stream/River - Perennial	Permanent Crossing
Access Road	Stream/River - Intermittent	Permanent/Temporary Crossing*
Field Survey Waterbody	Temporary Crossing	

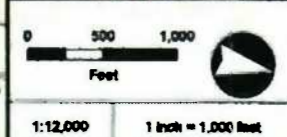
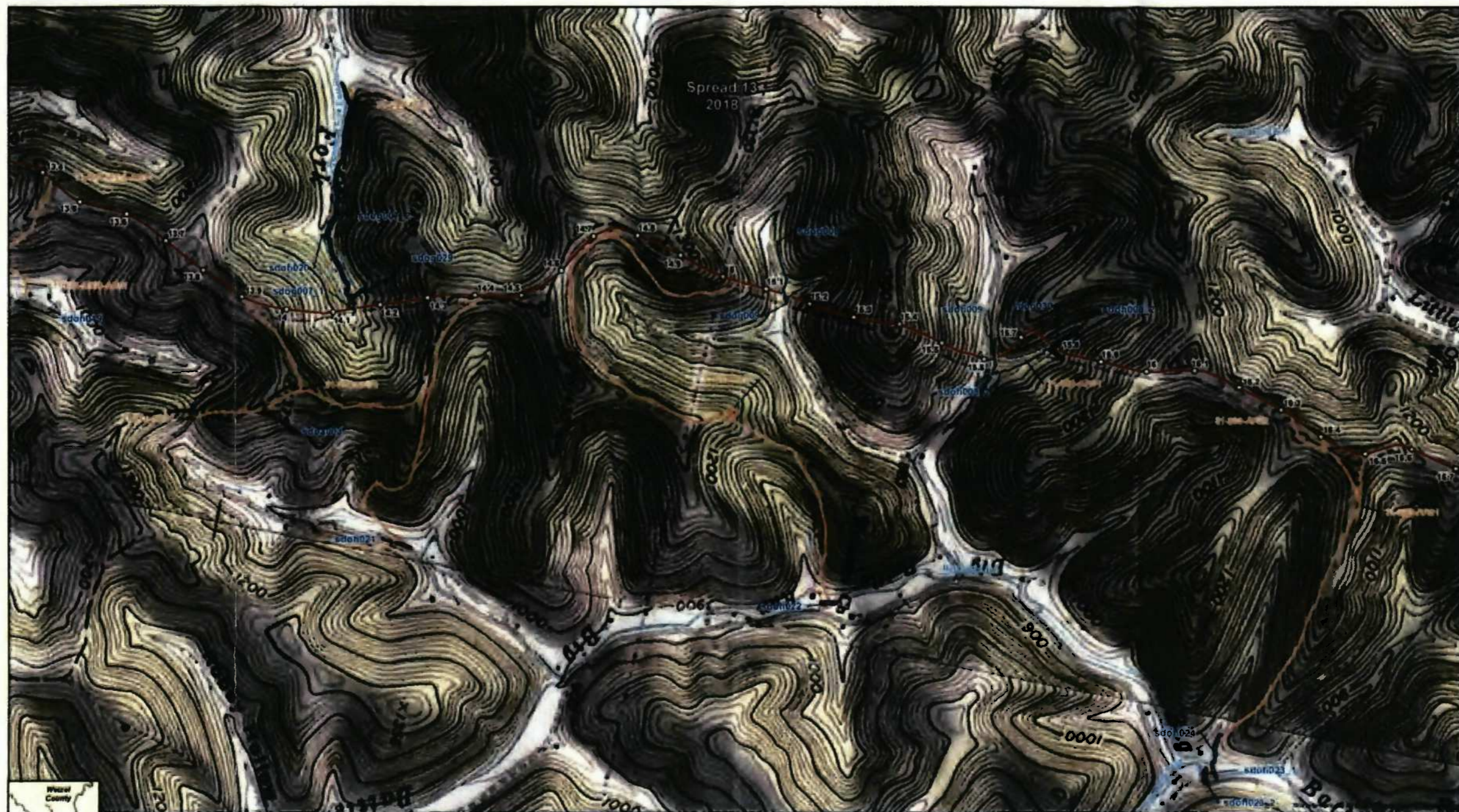
*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g., pipeline crossing with associated temporary equipment bridge).



Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635



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- | | | |
|------------------------|-----------------------------|-------------------------------|
| Proposed Route | Stream/River - Perennial | Permanent Crossing |
| Access Road | Stream/River - Intermittent | Permanent/Temporary Crossing* |
| Field Survey Waterbody | Temporary Crossing | |

*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g., pipeline crossing with associated temporary equipment bridge).

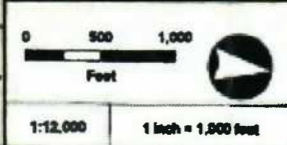
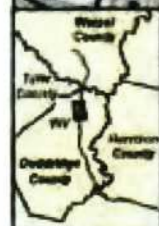
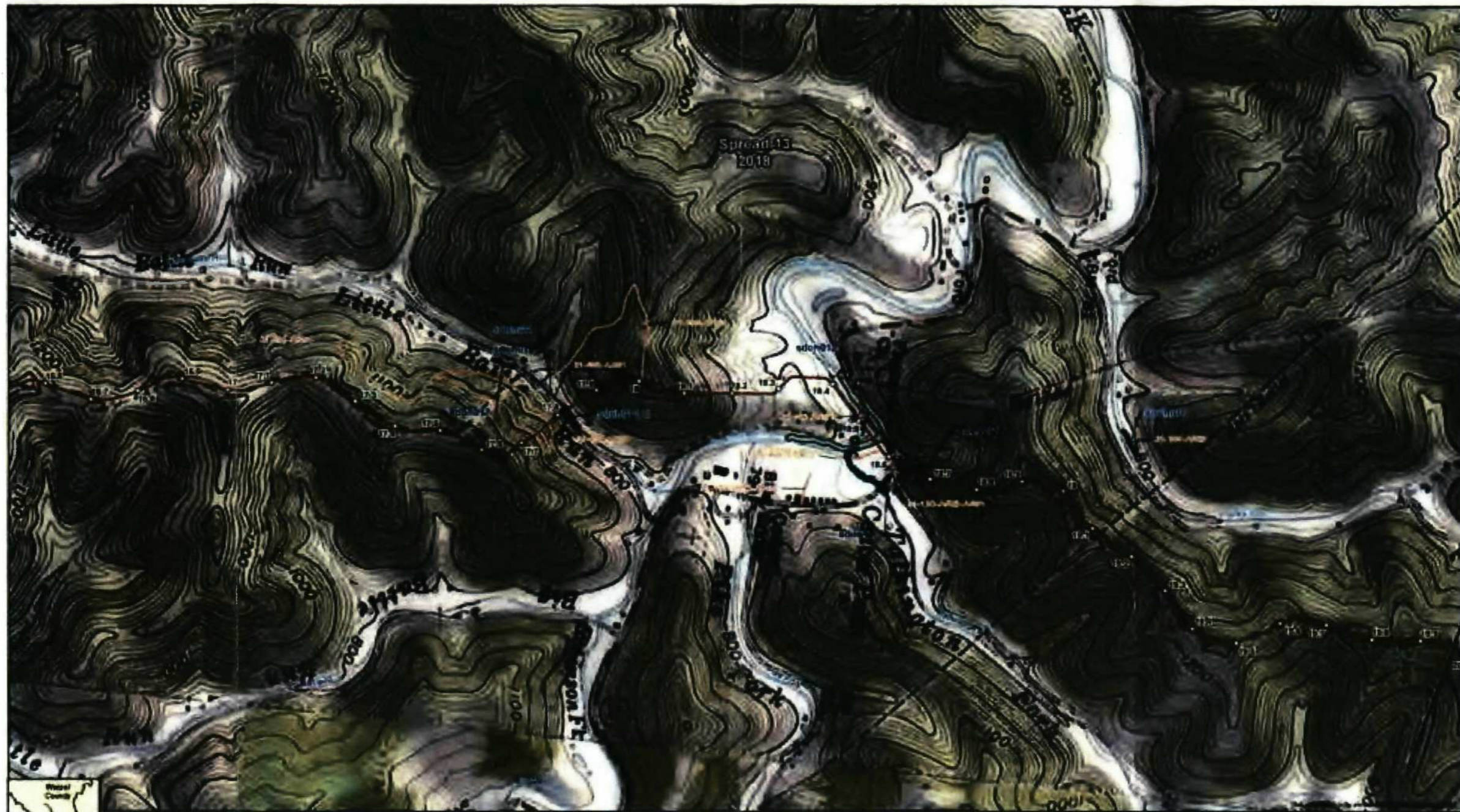
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Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635



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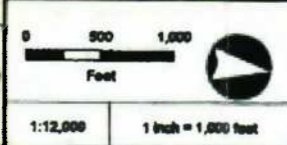
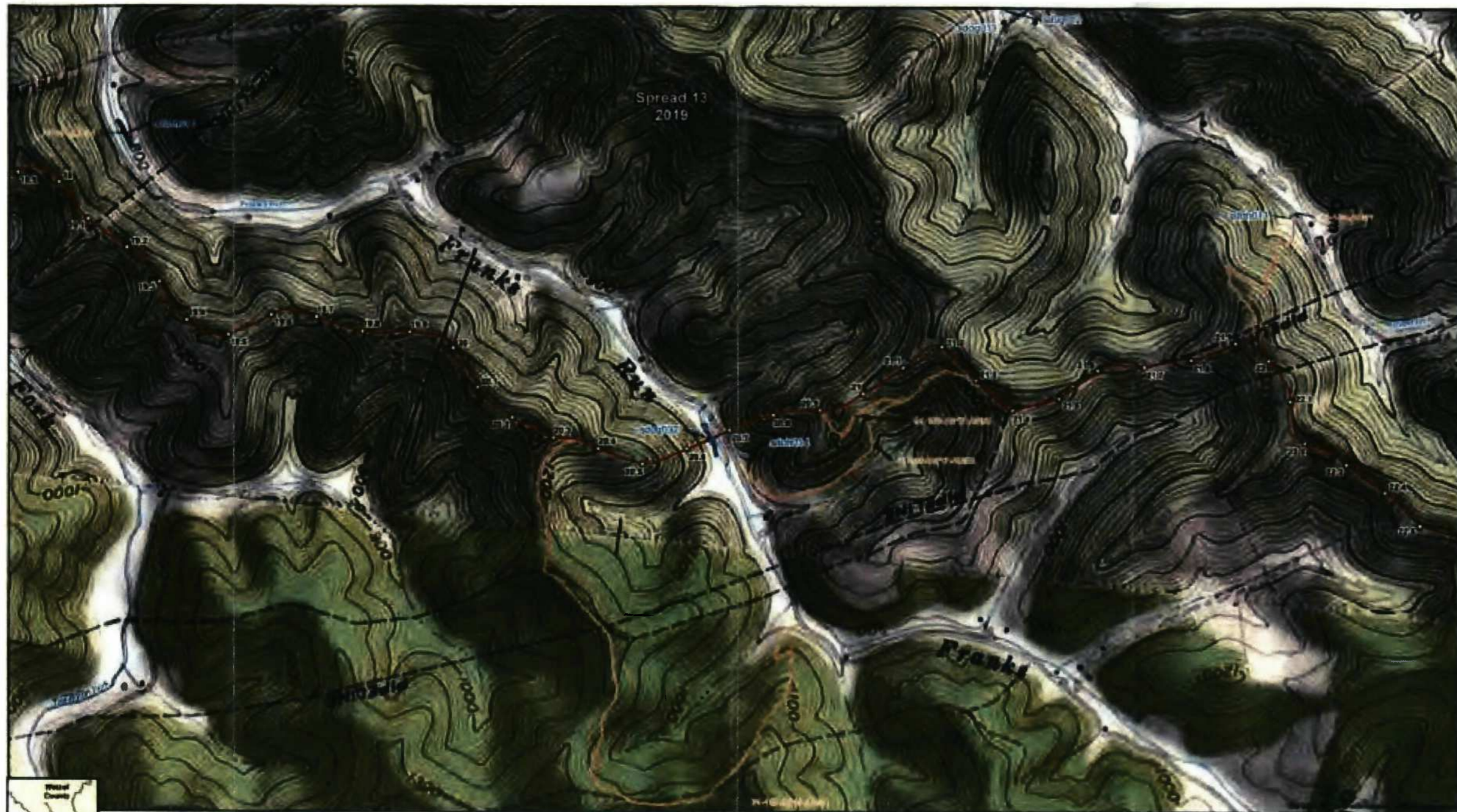
Proposed Route	Stream/River - Perennial	Permanent Crossing
Access Road	Stream/River - Intermittent	Permanent/Temporary Crossing
Field Survey Waterbody		Temporary Crossing
Spread Break		

*Permanent/Temporary Crossings represent structures where both permanent and temporary activities are planned (e.g., spans crossing with associated temporary support bridge).



Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635





— Proposed Route	— Stream/River - Perennial	Temporary Crossing
■ Access Road	--- Stream/River - Intermittent	Other Project Inventoried Waterbodies
Field Survey Waterbody		
■ Spread Break		

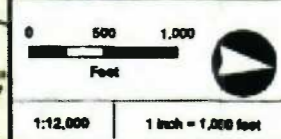
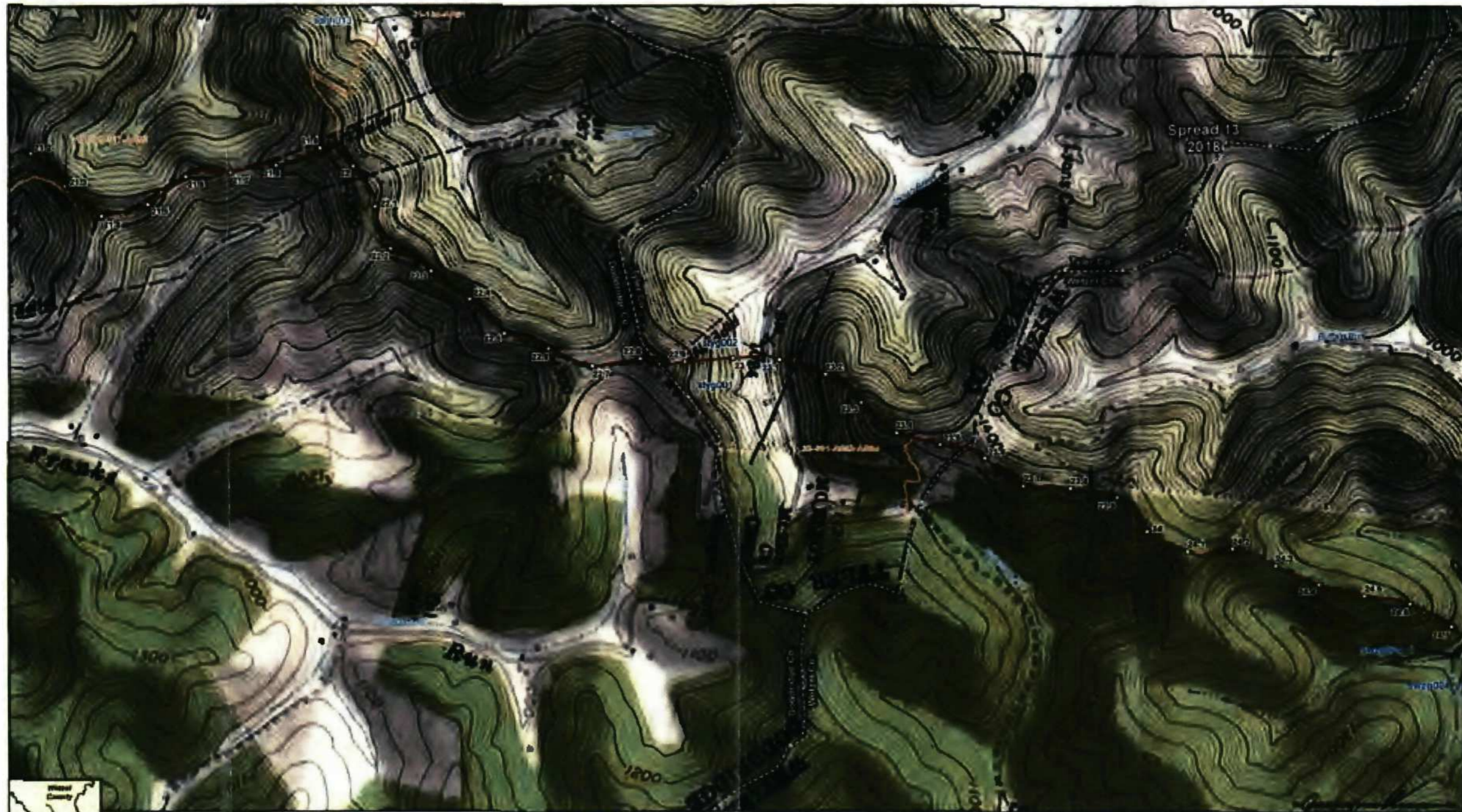
*Perennial/Temporary Crossings represent waterbodies where both permanent and temporary crossings are planned (e.g., pipeline crossing with associated temporary exposure bridge).



Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-835



DRAWN BY: JMI



- | | | |
|------------------------|-----------------------------|---------------------------------------|
| Proposed Route | Stream/River - Perennial | Permanent/Temporary Crossing* |
| Access Road | Stream/River - Intermittent | Other Project Inventoried Waterbodies |
| Field Survey Waterbody | County Boundary | |
| Spread Break | | |

*Permanent/Temporary Crossings represent waterbodies where both permanent and temporary activities are planned (e.g., pipeline crossing with associated temporary easement bridge).



Supply Header Project
Attachment 3 - USGS Topographic Maps
 Doddridge County, West Virginia
 Centerline: TL-635



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DRAWN BY: J/ta

Dominion Energy Services, Inc.
6000 Dominion Boulevard
Glen Allen, VA 23060
DominionEnergy.com



January 19, 2018

BY OVERNIGHT (OR EXPRESS) MAIL

RECEIVED
JAN 2018
Land & Stream

Ms. Carrie Brooks
Office of Land and Streams
Building 74, Room 200
324 Fourth Avenue
South Charleston, WV 25303
Carrie.T.Brooks@wv.gov

**Re: Dominion Energy Services, Inc., Supply Header Project
West Virginia Stream Activity Permit for 2018 Construction Spread Activities**

Dear Ms. Brooks:

Please find enclosed Stream Activity Permit applications for the Supply Header Project (SHP) in Harrison, Doddridge, and Wetzel Counties in West Virginia. The SHP will be constructed and operated by Dominion Energy Transmission, Inc. (DETI).

DETI is submitting the enclosed applications for stream crossing activities that are planned for 2018 construction. Construction activities for the SHP will continue into 2019, and DETI intends to submit additional applications later in 2018 to permit stream crossings planned for 2019 construction. Maps enclosed with the applications illustrate the full extent of the project in each county, identifying the stream crossings included within the applications. For convenience of review, DETI has divided each county into separate applications for permanent and temporary stream crossings. Therefore, there are five applications enclosed, a permanent and temporary stream activity permit application for Doddridge and Wetzel Counties and a temporary stream activity permit application for Harrison County. There are no permanent stream crossings proposed for the SHP in Harrison County. The SHP also crosses Tyler County; however, stream crossings in this county are planned for 2019 construction.

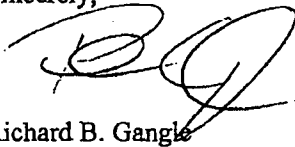
DETI appreciates the coordination to date and looks forward to continuing to work with you on this project. Please contact Staci Rogge at (804) 273-2906 or Staci.L.Rogge@dominionenergy.com, if there are questions regarding this submittal.

Supply Header Project
West Virginia – Division of Natural Resources, Office of Land and Streams
Stream Activity Permit
January 19, 2018
Page 2 of 2

Please direct written responses to:

Richard Gangle
Dominion Energy Services, Inc.
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Sincerely,



Richard B. Gangle
Environmental Manager, Supply Header Project

cc: Staci Rogge, Dominion Energy Services, Inc.

Enclosures: A total of five stream activity permit applications; permanent and temporary stream activity permit applications for Doddridge and Wetzel Counties and a temporary stream activity permit application for Harrison County

Brooks, Carrie T

From: Elliott, Danielle A
Sent: Monday, February 26, 2018 3:46 PM
To: Brooks, Carrie T
Cc: Brown, Clifford L; Bennett, Danny A; Wellman, David I; Taylor, Nate D
Subject: FW: Dominion Energy Transmission, Inc. Supply Header
Attachments: Dominion Energy Transmission, Inc., LS-18-I 17-475.pdf; Dominion Energy Transmission, Inc., P-18-VI 09-476 and LS-18-VI 09-477.pdf; Dominion Energy Transmission, Inc., P-18-I 52-478 and LS-18-I 52-479.pdf; SHP 2018 Stream Activity Permits_2-12-2018.xlsx

Importance: High

Good morning Carrie,

I have reviewed the SHP Right of Entry Requests. I suggest the applicant pay particular attention to the Right of Entry License Agreement Condition Numbers 6 & 7 for guidance on mussel stream impacts.

The following are Federally listed Endangered Mussel Streams:

Buckeye Creek
Dry Fork
McElroy Creek
Meathouse Fork

The following are Group 2 State Listed Mussel Streams where Endangered Species are expected.

Flint Run
Talkington Fork

The following are Group 1 State Listed Mussel Streams where Endangered Species are not expected, but still requires contact with the WV DNR Malacologist, Janet Clayton:

South Fork Fishing Creek
Indian Fork

Please let me know if you have any questions or concerns.
Thank you for the opportunity to review this project,

Danielle A. Elliott
WV DNR Coordination Unit
Office: 304-637-0245 ext. 2043
Cell: 304-550-5057

From: Brooks, Carrie T
Sent: Wednesday, February 21, 2018 4:33 PM
To: Elliott, Danielle A
Subject: Dominion Energy Transmission, Inc. Supply Header

Danielle,

Attached are the applications we received for Dominion Energy Transmission, Inc.'s Supply Header Project. I actual have 5 applications, but I combined the pipeline and structure applications for Doddridge and Wetzel Counties, since everything is the same for both pipeline and structure applications (applications, maps, cover



United States Department of the Interior

FISH AND WILDLIFE SERVICE



Virginia Field Office
6669 Short Lane
Gloucester, VA 23061

October 16, 2017

Ms. Kimberly Bose, Secretary
Federal Energy Regulatory Commission
888 First Street NE, Room 1A
Washington, D.C. 20426

MAR 15 18 2:06 PM

Attn: David Swearingen, Branch Chief

Re: Atlantic Coast Pipeline, LLC,
Atlantic Coast Pipeline; Dominion
Energy Transmission, Inc., Supply
Header Project; Docket Numbers
CP15-554-000, CP15-554-001,
CP15-555-000; Project #05E2VA00-
2016-F-1219, #05E2WV00-2014-F-
0832, #05E2PA00-2016-TA-0960,
#04EN2000-2017-I-0738

Dear Ms. Bose:

This document transmits the U.S. Fish and Wildlife Service's (Service) biological opinion (Opinion) based on our review of the referenced project and its effects on the federally listed species in Table 1 in accordance with Section 7 of the Endangered Species Act (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA).

Table 1. Species considered in this Opinion.

Species Common Name	Species Scientific Name	ESA Status	State	FERC Action
Small whorled pogonia (SWP)	<i>Isotria medeoloides</i>	threatened	WV	Atlantic Coast Pipeline (ACP)
Running Buffalo clover (RBC)	<i>Trifolium stoloniferum</i>	endangered	WV	ACP
Roanoke logperch (RLP)	<i>Percina rex</i>	endangered	VA	ACP
Clubshell	<i>Pleurobema clava</i>	endangered	WV	ACP
Rusty patched bumble bee (RPBB)	<i>Bombus affinis</i>	endangered	VA	ACP
Madison Cave isopod (MCI)	<i>Antrolana lira</i>	threatened	VA	ACP
Indiana bat (Ibat)	<i>Myotis sodalis</i>	endangered	VA, WV	ACP (VA, WV); Supply Header Project

				(SHP) (WV)
Northern long-eared bat (NLEB)	<i>Myotis septentrionalis</i>	threatened	WV	ACP

Your July 21, 2017 request for formal consultation was received on July 21, 2017.

This Opinion is based on information provided in the July 2017 Final Environmental Impact Statement (FEIS) (Federal Energy Regulatory Commission [FERC] 2017), telephone conversations, field surveys/investigations, and other sources of information. The consultation history is located in Appendix A. Because the project traverses 4 states under the geographic jurisdiction of the 4 Service Field Offices in Raleigh, North Carolina (NC), State College, Pennsylvania (PA), Gloucester, Virginia (VA), and Elkins, West Virginia (WV), each maintain their geographic portion of the administrative record in their respective Field Office.

FERC, under Section 7 of the Natural Gas Act, is required to consider, as part of its decision to authorize interstate gas facilities, all factors bearing on the public convenience and necessity. This includes any “nonjurisdictional” facilities that do not come under the jurisdiction of FERC but may be integral to the project objective. Nonjurisdictional facilities that lie outside the footprint of jurisdictional facilities were not included in the analysis of impacts to federally listed species provided to the Service by FERC. Therefore, any effects to and take of listed species associated with nonjurisdictional facilities may not be covered in this Opinion. The nonjurisdictional facilities associated with this project are summarized in table 2.8-1 of the FEIS and further discussed in Section 4.13 (FERC 2017).

BIOLOGICAL OPINION

DESCRIPTION OF PROPOSED ACTION

As defined in the ESA Section 7 regulations (50 CFR 402.02), “action” means “all activities or programs of any kind authorized, funded, or carried out, in whole or in part, by federal agencies in the United States or upon the high seas.” The “action area” is defined as “all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action.”

Atlantic Coast Pipeline, LLC (Atlantic) and Dominion Energy Transmission, Inc. (DETI) have requested the FERC authorize the construction and operation of a total of 642.0 miles of natural gas transmission pipeline and associated facilities in PA, WV, VA, and NC (Figure 1).

The following is a summary of the proposed action and a detailed description can be found in FERC’s ACP and SHP FEIS, July 2017 (FERC 2017).

Proposed Facilities – ACP will be located in WV, VA, and NC (Figure 2). As proposed, this project includes 2 mainline pipeline facilities and 3 pipeline laterals consisting of 519.7 miles of new 42- and 36-inch (in) diameter natural gas pipeline and 84.8 miles of 20- and 16-in diameter natural gas pipeline. Additional components include 3 new compressor stations, 9 metering and regulation (M&R) stations, 41 valves, and 8 sets of pig launchers/receivers. ACP will deliver up to 1.5 billion cubic feet per day (Bcf/d) to customers in WV, VA, and NC.

SHP will be located in PA and WV (Figure 3). As proposed, this project includes 37.5 miles of new 30-in diameter natural gas pipeline, modifications to 4 existing compressor stations, 1 M&R station, 6 valves, and 2 sets of pig launchers/receivers. DETI also proposes to abandon 2 existing gathering compressor units and build 2 new ones at an existing compression station. SHP will deliver up to 1.5 Bcf/d to various customers including Atlantic.

A brief description of the 6 types of above-ground facilities proposed to be installed is included below. Additional details describing the facilities are included in Section 2.1.2 of the FEIS (FERC 2017).

- Compressor stations – utilize engines to maintain pressure within the pipeline to deliver the contracted volumes of natural gas to specific points at specific pressures. Designed to attenuate noise and allow for operation and maintenance (O&M) activities.
- M&R stations – measure the volume of gas removed from or added to a pipeline system at receipt and delivery interconnects. Consist of a small graveled area with a small building(s) that enclose the measurement equipment.
- Valves – consist of a small system of aboveground and underground piping and valves that control the flow of gas within the pipeline and can also be used to vacate, or blow-off, the gas within a pipeline segment, if necessary.
- Pig launchers and receivers – facilities where internal pipeline cleaning and inspection tools, referred to as “pigs”, can be inserted or retrieved from the pipeline. Generally consist of a segment of aboveground piping, 20-30 feet (ft) in length, which ties into the mainline pipeline facilities below the ground surface.
- Cathodic protection systems – systems that help prevent corrosion of underground pipeline facilities. Typically include a small, aboveground transformer-rectifier unit and an associated anode ground bed located underground.
- Communication towers and antennas – provide wireless communications necessary to operate monitoring and control systems.



Figure 1. ACP and SHP project overview.

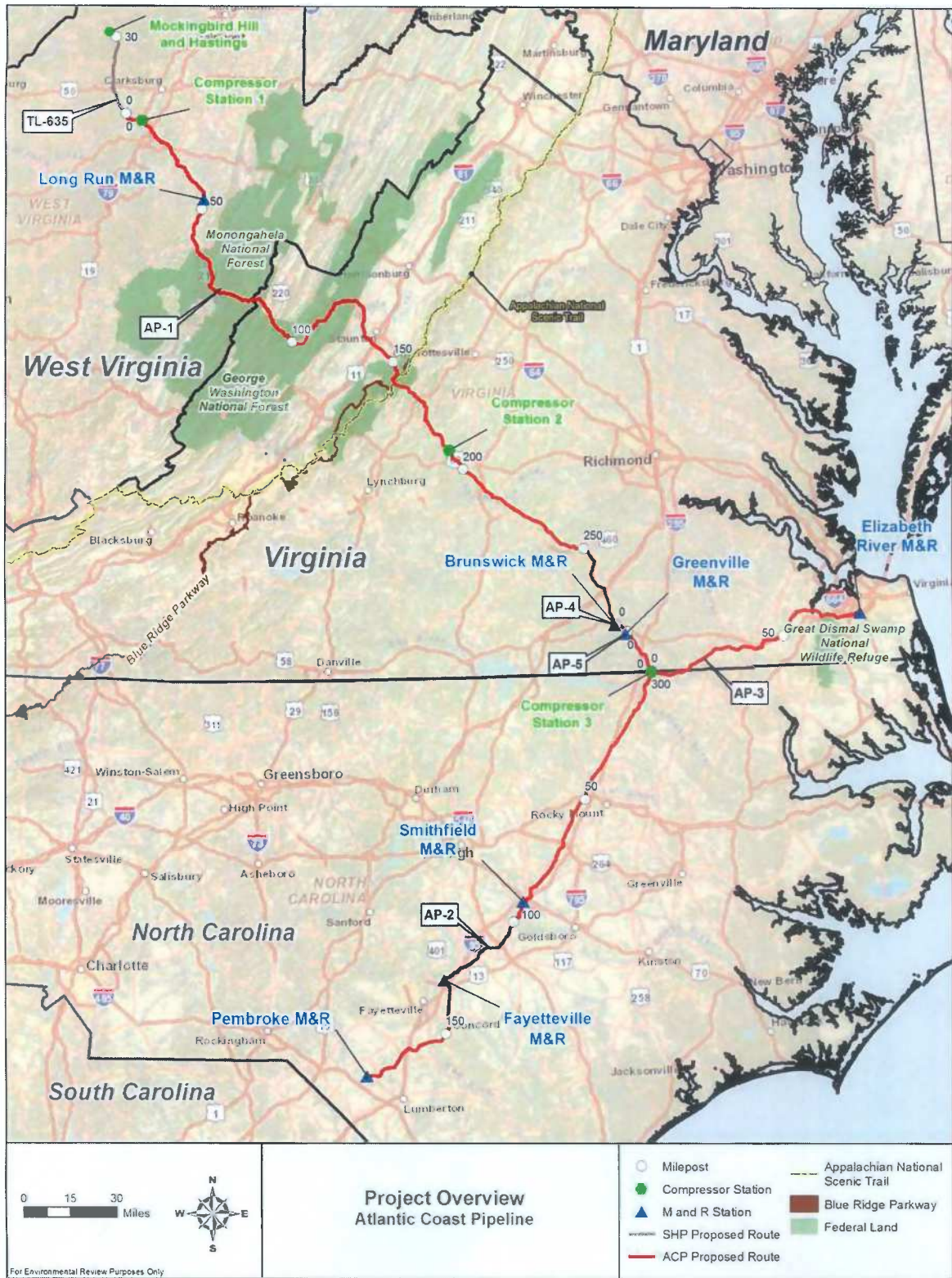


Figure 2. ACP project overview.

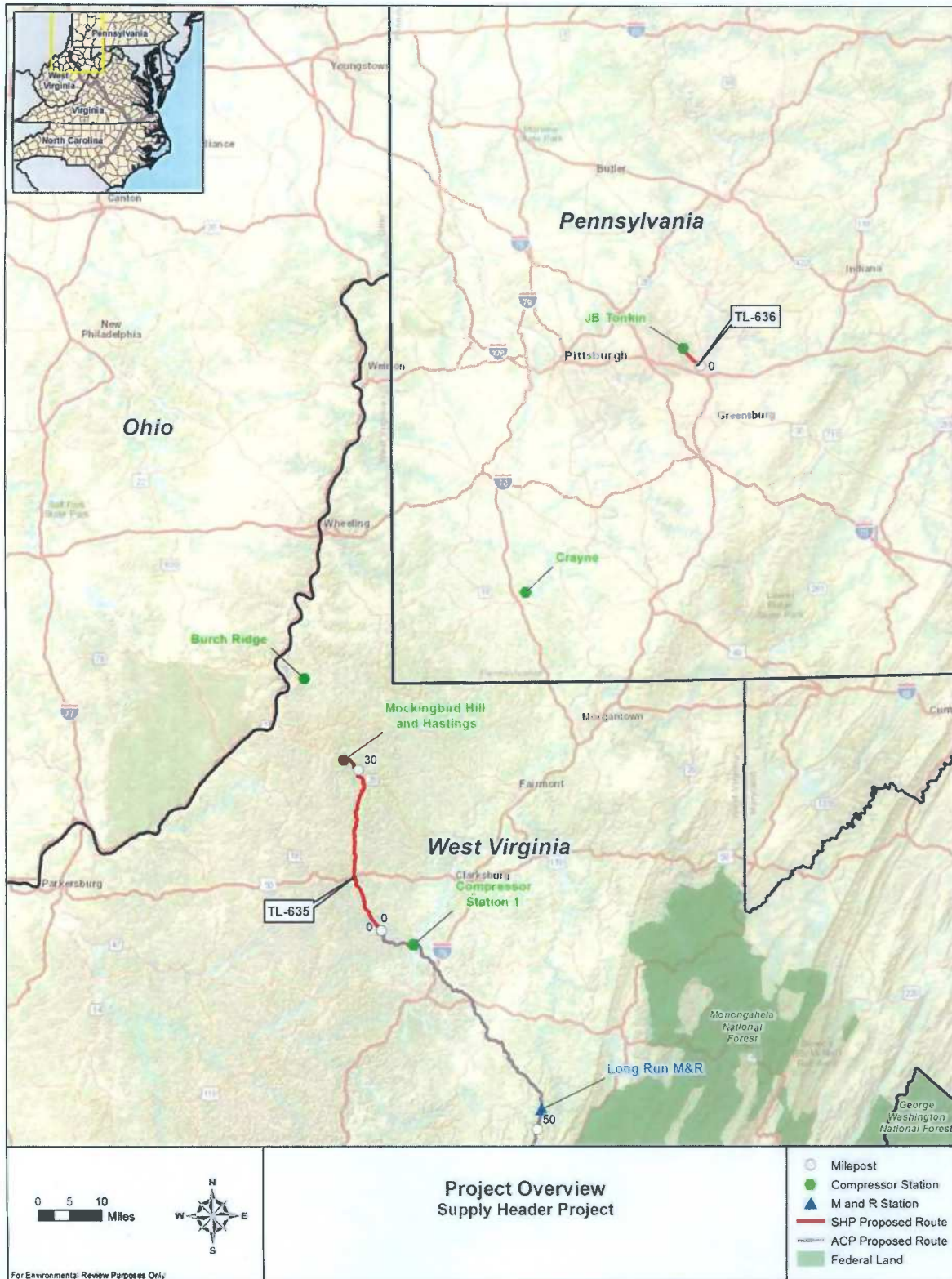


Figure 3. SHP project overview.

Land Requirements – Collectively, construction of ACP and SHP will disturb 11,775.9 acres of land. Following construction, 4,929.6 acres will be maintained for O&M of the project facilities. The remaining 6,846.3 acres of land disturbed by ACP and SHP will be restored and allowed to revert to former use. A brief description of the 4 types of land requirements is included below. Additional details describing the land requirements are included in Section 2.2 of the FEIS (FERC 2017).

- Pipeline right-of-way (ROW) – Atlantic and DETI will use a variety of ROW configurations to construct and operate the pipeline facilities. Section 2.2.1 and table 2.1.1-1 of the FEIS provide specific details (FERC 2017). The construction ROW consists of 2 portions, the temporary construction ROW and the permanent ROW. Temporary construction ROW will be restored or will revert to former use while permanent ROW will be maintained and utilized for O&M purposes.
- Additional temporary workspace (ATWS) – additional space required in particular areas necessary to complete construction of the pipeline. Examples include, but are not limited to, certain pipe bend locations, truck turnarounds or equipment passing lanes, and construction constraint areas that require special construction techniques such as horizontal directional drill (HDD) entry and exit locations.
- Pipe/contractor yards (CY) and staging areas – used for equipment, pipe sections, and construction material and supply storage, as well as temporary field offices, parking, and pipe preparation and preassembly staging areas.
- Access roads – necessary to gain access to the construction ROW and aboveground facilities. Many of the proposed access roads are existing roads that can accommodate construction traffic without modification.

Construction Procedures – Atlantic and DETI will design, construct, operate, and maintain their respective pipelines and facilities in accordance with U.S. DOT regulations under 49 CFR 192 and other applicable federal and state/commonwealth requirements. Atlantic and DETI will comply with siting and maintenance requirements under 18 CFR 380.15 and implement various forms of mitigations as defined in 40 CFR 1508.20. They will adopt FERC’s general construction, restoration, and operational mitigation measures as outlined in FERC’s Upland Erosion Control Revegetation and Maintenance Plan (FERC 2013a) and Wetland and Waterbody Construction and Mitigation Procedures (FERC 2013b). Specific mitigation plans for National Forest lands have been determined in consultation with the U.S. Forest Service (USFS). Construction plans for both projects include some modifications to FERC’s procedures and more details can be found in FEIS section 2.3.1.1 (FERC 2017).

A brief description of the 9 types of typical construction procedures associated with the project is included below. Additional details describing the typical construction procedures are included in Section 2.3.2 of the FEIS (FERC 2017). Construction at any single point along the pipelines could last from 6 to 12 weeks or longer. The complete proposed construction schedule can be found in FEIS section 2.4 and FEIS Table 2.4-1 (FERC 2017).

- Surveying and staking – marking of the limits of construction ROW, centerline, ATWS, other approved work areas, and environmentally sensitive areas using temporary flagging or tape.
- Clearing and grading – removal of trees, shrubs, brush, roots, and large rocks from the construction work area and leveling of the construction ROW to allow for operation of

construction equipment.

- Trenching – digging of pipeline trench by removal of soil and rock by rotary trenching machine, track-mounted excavator, or similar equipment. Tractor-mounted mechanical rippers, hydraulic hoe rams, rock trenchers, or blasting may be used to fracture rock prior to removal.
- Rock removal and blasting – where bedrock cannot be fractured by mechanical equipment, blasting will be required following a project-specific *Blasting Plan* (<http://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14395436>). Typical blasting methods include mass rock blasting, production blasting, and trench blasting.
- Pipe stringing, bending, welding, and coating – transportation of pipe segments to CY or work areas and bending of pipes to fit contours of the trench. Pipeline segments are aligned and welded together. Welds are inspected and coated with epoxy or other protective coating.
- Lowering-in and backfilling – lowering of pipe using side-boom tractors and backfill of trench with suitable excavated material. In rocky areas, protective materials may be placed in trench to protect pipe. Trench breakers (stacked sandbags or polyurethane foam) will be placed in trench prior to backfilling to prevent subsurface water movement along pipeline.
- Internal pipe cleaning and hydrostatic testing – cleaning of pipe to remove dirt, water, or other debris and hydrostatic testing to ensure that the system is capable of withstanding the operating pressure for which it is designed.
- Commissioning – verifying that equipment has been properly installed and working, verifying that controls and communication systems are functioning, and confirming that the pipeline is ready for service. As a final step, the pipeline will be purged of air and loaded with natural gas.
- Cleanup and restoration – grading and restoration of all work areas to pre-construction contours and natural drainage patterns as closely as possible.

Specialized construction methods for crossing under sensitive resources such as agricultural lands, roads, foreign utilities, residential areas, waterbodies, wetlands, and other sensitive environmental resources will be employed. A brief description of the specialized construction methods is included below. Additional details describing the specialized construction methods are included in Section 2.3.3 of the FEIS (FERC 2017).

- Waterbody crossings –
 - Wet open-cut construction method – trench excavation, pipeline installation, and backfilling in a waterbody without controlling or diverting streamflow.
 - Flume construction method – diversion of streamflow through flume pipes and placement of dam structures to exclude water flow from trench area.
 - Dam and pump construction method – diversion of stream flow using pumps and hoses and placement of dam structures to exclude water flow from trench area.
 - Cofferdam method – installation of a temporary diversion structure from 1 bank of the waterbody to the approximate midpoint of the waterbody crossing to isolate that section of the stream from the rest of the waterbody, creating discrete dry sections around which water flows unimpeded.
- Trenchless methods –
 - Conventional bore method – bore pits are excavated on both sides of the sensitive

resource, boring machines are used to excavate a tunnel between the bore pits, and a pre-fabricated pipe is pushed through the borehole without affecting the surface of the resource.

- HDD construction method – drilling of a hole under a sensitive resource and installation of a pre-fabricated pipe segment through the hole. A pilot hole is first drilled and then enlarged using several passes of successively larger reaming tools. Drilling mud composed of 65% water and 30% bentonite clay is required to lubricate the drills.
- Direct pipe method – excavation and hole boring is performed with a navigable microtunneling machine and a cutterhead while simultaneously installing the pipe using a pipe thruster.
- Wetland crossings – construction ROW through wetlands are typically 75 ft wide with ATWS located in upland areas a minimum of 50 ft from wetland edge, unless granted site-specific approval for a reduced setback. Sediment barriers such as silt fence and staked straw bales will be utilized during clearing and construction. The push-pull technique, conventional bore, and HDD methods may be used to install pipes.
- Karst sensitive areas – crossing of karst sensitive areas will follow the project-specific construction, restoration, and mitigation methods outlined in the *Karst Mitigation Plan* included in Appendix I of the FEIS (FERC 2017).
- Steep slopes – temporary and permanent controls measures such as trench breakers, trench plugs, silt fencing, erosion control matting, and hydro-mulching will be put in place to minimize erosion and sedimentation. In steepest area, techniques such as “winching” and two-tone construction methods may be employed.
- Residential construction – implement measures to minimize construction-related impacts on all residences and other structures located within 50 ft of the construction ROW following site-specific *Residential Construction Plans* included in Appendix J1 of the FEIS (FERC 2017).
- Agricultural areas – a maximum 12-in of topsoil in actively cultivated and rotated croplands, pastures, and hayfields and in other areas at the specific request of the landowners or land management agency will be segregated during construction and replaced to the upper soil layer during backfill. Any disrupted irrigation and drainage systems will be permanently repaired.
- Road, railroad, and trail crossings – railroads and roads where traffic cannot be detoured will generally be crossed by boring beneath the road or railroad. Most gravel and dirt roads, driveways, and roads in areas with a high water table, as well as most USFS system trails, will be crossed by open-cut method, which will require temporary closure of the road or trail and establishment of detours.
- Foreign utilities – buried utilities will be identified and flagged using One-Call systems prior to ground-disturbing activities.
- Winter construction – specialized construction methods or procedures will be utilized to protect resources during the winter season as described in the *Winter Construction Plan* (<http://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14475037>).

Environmental Inspection, Compliance Monitoring, and Post-Approval Variances – Atlantic and DETI have developed procedures for environmental inspection, compliance monitoring, and post-approval variances. A brief description of the procedures is included below. Additional

details describing the procedures are included in Section 2.3.3 of the FEIS (FERC 2017).

- Coordination and Training – copies of all applicable environmental permits, construction drawings, and specifications will be provided to construction contractors. Contractors will attend an environmental training program tailored to the proposed projects and their construction requirements.
- Environmental Inspection – trained environmental inspectors (EIs) will be employed to ensure that construction complies with construction and mitigation procedures imposed by FERC and other regulatory agencies. EIs will have the authority to stop activities that violate conditions of the FERC certificate, other permits, or landowner requirements, and have authority to order the appropriate corrective actions.
- FERC Compliance Monitoring – in addition to EIs, a third-party compliance monitoring program will be funded to provide daily environmental monitoring services during construction. Other federal, state/commonwealth, and local agencies may also monitor the project to the extent determined necessary by the agency.
- USFS Compliance Monitoring – USFS will monitor implementation of ACP to assure that the terms and conditions of the Special Use Permit are carried out during and after construction.
- Post-Approval Variance Process – a “variance request” will be submitted to FERC in the event that minor route realignment or other workspace refinements are required subsequent to project approval. FERC will take the lead on evaluating the request and coordinating with any appropriate land-managing agencies for approval or denial.
- Post-Construction Monitoring – follow-up inspections of all disturbed uplands areas will be conducted, at a minimum after the first and second growing seasons to determine the success of restoration, and inspections will continue monitoring areas until revegetation thresholds are met, temporary erosion control devices are removed, and restoration deemed complete.

Operation and Maintenance – ACP and SHP pipelines and aboveground facilities will be operated and maintained in accordance with U.S. DOT regulations in 49 CFR 192, FERC’s guidance at 18 CFR 380.15, the USFS Special Use Permit, and the maintenance provisions of the FERC Plan (<https://www.ferc.gov/industries/gas/enviro/plan.pdf>) and Procedures (<https://www.ferc.gov/industries/gas/enviro/procedures.pdf>). A brief description of the O&M details is included below. Additional details describing O&M are included in Section 2.6 of the FEIS (FERC 2017).

- Pipeline Facility O&M – an O&M plan and an emergency plan will be established that includes procedures to minimize the hazards in a natural gas pipeline emergency. Regular patrols, inspection, and repair of the pipeline will be conducted.
- Aboveground Facility O&M – new and modified compressor stations will be operated and maintained in accordance with Pipeline and Hazardous Materials Safety Administration requirements and standard procedures. Standard operations at compressor stations include such activities as the calibration, maintenance, and inspection of equipment, as well as periodic checking of safety and emergency equipment and cathodic protection systems.

Future Plans and Abandonment – ACP Foundation Shippers have a right to request an increase in contracted capacity by participation in an Optional Expansion or Second Expansion. Any

future increase in capacity or expansion would require additional environmental review and FERC authorization. If at some point in the future, any of the approved project facilities are proposed to be abandoned, Atlantic and/or DETI would have to seek specific authorization from FERC for that action and the public will have the opportunity to comments on the applicant's abandonment proposal.

Conservation Measures – Conservation measures proposed as part of the action (measures that will avoid, minimize, and mitigate effects of the proposed action on the species and/or benefit the species as a whole) are referred to as avoidance and minimization measures (AMMs) in this Opinion. AMMs are provided in the FEIS (FERC 2017) and discussed, as applicable, in Appendix B.

Action Area

The action area is defined (50 CFR 402.02) as “all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action.” The Service has determined that the action area for this project is all lands in PA, WV, VA, and NC affected directly or indirectly by the project's components described in Description of Proposed Action.

STATUS OF THE SPECIES

Per the ESA Section 7 regulations (50 CFR 402.14(g)(2)), it is the Service's responsibility to “evaluate the current status of the listed species or critical habitat.”

To assess the current status of the species, it is helpful to understand the species' conservation needs which are generally described in terms of reproduction, numbers, and distribution (RND). The Service frequently characterizes RND for a given species via the conservation principles of resiliency (ability of species/populations to withstand stochastic events – numbers, growth rates), redundancy (ability of a species to withstand catastrophic events – number of populations and their distribution), and representation (variation/ability of a species to adapt to changing conditions) (collectively known as the three Rs).

Small whorled pogonia – As described in Service (2008) the SWP conservation needs include “resolving data gaps and assessing the conservation potential for populations on private lands.” Currently, as a whole, the rangewide status of the species is stable (Service 2008). From 1985-2007, population numbers in WV remained low but stable (Service 2008). The primary factors influencing the status include risks posed by land development; however these activities are diffuse across the species' range and do not constitute an acute threat to SWP survival and recovery (Service 2008). For a more detailed account of the species description, life history, population dynamics, threats, and conservation needs, refer to:
<https://ecos.fws.gov/ecp0/profile/speciesProfile.action?sPCODE=Q1XL>.

Running Buffalo clover – As described in Service (2011), the RBC conservation needs include assessing “direct and indirect human impacts that lead to habitat loss, alteration, significant degradation such as development, and the introduction of non-native invasive species.” Currently, as a whole, the rangewide status of the species is stable or improving. In WV,

populations are improving (Service 2011). The primary factors influencing the status include risks posed by “habitat destruction, habitat succession, and invasive plant competition” (Service 2011). In WV, “invasive species such as multiflora rose (*Rosa multiflora*) and Japanese stiltgrass (*Microstegium vimineum*), a lack of protection from heavy trail use, and shading are severe threats to populations.” Small population size and climate change continue to be threats as well (Service 2011). For a more detailed account of the species description, life history, population dynamics, threats, and conservation needs, refer to:

<https://ecos.fws.gov/ecp0/profile/speciesProfile.action?spcode=Q2RE>.

Roanoke logperch – As described in Service (2007), the RLP conservation needs include solving data gaps that limit an accurate assessment of population abundance, maintaining the health and vigor of present populations by addressing sediment loading at the watershed level and preserving ecological processes, increasing connectivity of populations by identifying and eliminating barriers, and preventing and reducing the risk of catastrophic extirpation from toxic spills. Currently, as a whole, the rangewide status of the species is improving, although the geographic range remains small. The populations in VA seem to be stable or increasing (Service 2007). The primary factors influencing the status include risks posed by large dams and reservoirs, small dams and barriers, watershed urbanization, agricultural and silvicultural activities, channelization, roads, toxic spills, riparian/woody debris loss, and water withdrawals (Service 2007). For a more detailed account of the species description, life history, population dynamics, threats, and conservation needs, refer to:

<https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=E01G>.

Clubshell – As described in Service (2008), the clubshell conservation needs include assessing habitat loss, susceptibility to land use changes, and reproductive success. Currently, as a whole, the rangewide status of the species is declining. In the Kanawha River system of WV the species appears to be stable (successfully reproducing). However, in the Monongahela River system of WV, the species is in “severe decline” (Service 2008). The primary factors influencing the status include risks posed by water quality degradation and alterations, instream activities, exploration and extraction of coal, oil, and natural gas, even at a distance from clubshell populations, and development near streams and adjacent uplands (Service 2008). For a more detailed account of the species description, life history, population dynamics, threats, and conservation needs, refer to: <https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=F01D>.

Rusty patched bumble bee – As described in Service (2016), the RPBB conservation needs include assessing resiliency to environmental variation, perturbations affecting habitat size and quality, and population size. Currently, as a whole, the rangewide status of the species is declining (82 FR 3186-3209). The primary factors influencing the status include risks posed by “pathogens, pesticides, habitat loss and degradation, small population dynamics, and climate change” (82 FR 3186-3209). For a more detailed account of the species description, life history, population dynamics, threats, and conservation needs, refer to:

<https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=I0W1>.

Madison Cave isopod – As described in Service (2011), the MCI conservation needs include assessing “thermal and chemical pollution from urban development and agricultural runoff, physical pollution, and human disturbance (cave vandalism and visitation).” Currently, as a

whole, the rangewide status of the species appears to be stable (Service 2011). The primary factors influencing the status include risks posed by habitat degradation from altering streams, isolation of populations from physical barriers, shifts in subterranean sediment associated with development, and groundwater contamination (Service 2011). For a more detailed account of the species description, life history, population dynamics, threats, and conservation needs, refer to: <https://ecos.fws.gov/ecp0/profile/speciesProfile?sPCODE=K008>.

Indiana bat – As described in Service (2016), the Ibat conservation needs include assessing and offsetting adverse impacts to the species and promoting recovery. Currently, as a whole, the rangewide status of the species is declining (Service 2016) and the degree of threat to the continued existence of the species is high (Service 2009). The primary factors influencing the status of the species include risks posed by White-Nose Syndrome (WNS), habitat loss and degradation, forest fragmentation, winter disturbance, environmental contaminants, climate change, and collisions with manmade objects (Service 2009, 2016). For a more detailed account of the species description, life history, population dynamics, threats, and conservation needs, refer to: <https://ecos.fws.gov/ecp0/profile/speciesProfile?sPCODE=A000>.

Northern long-eared bat – The NLEB conservation needs include protecting and reducing disturbance of hibernacula, summer roosts, and the buffer zone known as “WNS zone” (81 FR 1900-1922). Currently, as a whole, the rangewide status of the species is declining (81 FR 1900-1922). The primary factors influencing the status include risks posed by WNS, tree removal, disturbance around roosts during the summer months, and disturbance at the entrance and interior of hibernacula. “This includes the physical or other alteration of the hibernaculum’s entrance or environment when bats are not present if the result of the activity will impair essential behavioral patterns” (81 FR 1900-1922). For a more detailed account of the species description, life history, population dynamics, threats, and conservation needs, refer to: <https://ecos.fws.gov/ecp0/profile/speciesProfile?sPCODE=A0JE>.

STATUS OF CRITICAL HABITAT

No critical habitat has been designated for SWP, RBC, RLP, clubshell, RPBB, MCI, or NLEB.

Critical habitat for Ibat has been designated at Hellhole Cave, Pendleton County, WV; however, this action does not affect that area.

ENVIRONMENTAL BASELINE

Regulations implementing the ESA (50 CFR 402.02) define the environmental baseline as the past and present impacts of all federal, state, or private actions and other human activities in the action area. Also included in the environmental baseline are the anticipated and/or ongoing impacts of all proposed federal projects in the action area that have undergone Section 7 consultation, and the impacts of state and private actions which are contemporaneous with the consultation in progress.

Status of the Species within the Action Area

Small whorled pogonia – Two new SWP colonies were found within the action area during 2016 plant surveys (Allstar Ecology 2016a, 2016b; Vanasse Hangen Brustlin, Inc. [VHB] 2016a, 2016b, 2017; Environmental Resource Management [ERM] 2017). One colony is located in the Seneca State Forest, WV (Seneca colony) and 1 colony is located in the Monongahela National Forest (MNF), WV (MNF colony).

The Seneca colony in Pocahontas County, WV, is located 70 ft downslope from the construction ROW (Allstar Ecology 2016a, 2016b; ERM 2017; VHB 2017). Ten stems were observed above an alluvial bench on a hillside in an oak-pine forest. Three of the stems were flowering. This colony is characterized by a relatively dense understory, larger light gaps, and a higher frequency of coarse woody debris compared to the MNF colony. During a 2017 pre-construction survey, 24 stems were observed (VHB 2017). This colony has the potential to meet the definition of a self-sustaining, viable population (i.e., geometric mean of 20 emergent stems, of which at least 25% are flowering stems, over a 10-year period) (Service 1992). The colony is approximately 550 ft from the nearest trail and 1,000 ft from the nearest road. No invasive plants are present near this colony, thus no invasive species control plan has been established by the WV Division of Natural Resources (WVDNR) (C. Brown, WVDNR, email to J. Stanhope, Service, September 15, 2017).

The MNF colony in Pocahontas County, WV, is located approximately 221 ft downslope of the construction ROW (Allstar Ecology 2016a, 2016b; ERM 2017; VHB 2017). Three stems were observed mid-slope on a south-facing hillside dominated by an oak-hickory-heath community, characterized by presence of dappled sunlight, low-density understory, and some coarse woody debris. The colony is on a MNF parcel “landlocked” by private landowners and thus inaccessible by the general public (K. Karriker, USFS, email to E. Stout, Service, August 11, 2017). The USFS is not conducting invasive species control in this area, because, until recently, they did not have invasive plant inventory data for that parcel (K. Karriker, USFS, email to J. Stanhope, Service, September 26, 2017). Plant surveys identified invasive Japanese stiltgrass and Japanese barberry (*Berberis thunbergii*) in the general vicinity.

For the Seneca colony, maintenance of existing roads by the WV Department of Transportation and maintenance of trails and adjacent areas by WVDNR likely reduces suitability of SWP habitat due to vegetation management, soil compaction, vehicle operation, foot traffic, and chemical contamination. The close proximity of trails and roads to the Seneca colony provides for easy public access to the colony and resulting foot traffic. Collection by orchid enthusiasts and vandalism continues to be a threat for both Seneca and MNF colonies. SWP plants were illegally removed from MNF in Randolph County, WV in 2016. Herbivory by white-tailed deer (*Odocoileus virginianus*) or other mammals and invertebrates occurs throughout the range of SWP (Service 1992). In 2017, 1 plant from the MNF colony appeared to have been browsed and only the stem was observed (VHB 2017). Herbivory of SWP or an obvious white-tailed deer browse line in the forest area has not been observed near the Seneca colony (C. Brown, WVDNR, email to J. Stanhope, Service, September 19, 2017).

Running Buffalo clover – Survey efforts completed in 2015, 2016, and 2017 (AllStar Ecology 2015, 2016, 2017) documented 27 RBC occurrences (Table 2) on private land in Randolph and Pocahontas Counties, WV, within the action area. Most occurrences were documented in areas with intermittent soil disturbance, such as former logging roads and off-road vehicle (ORV) trails

under primarily closed-canopy mixed-hardwood forest with filtered sunlight. All occurrences were within, or in close proximity to, limestone geology of the Mississippian age.

Delineating RBC populations from occurrences is difficult and involves distinguishing and mapping discrete occurrences. For the purposes of our analysis, the 27 occurrences were delineated as 6 populations (Table 2). The populations were delineated based on distance of the occurrences from one another and habitat connectivity between the occurrences.

Table 2. RBC populations and occurrences within action area. Population number 3 and 4 are not included because they are not affected by the proposed action. Data on rooted crowns in the limits of disturbance obtained from ERM (2017).

Population Number	County	Size of Occurrence (acres)	Total Rooted Crowns	Number of Rooted Crowns in Limits of Disturbance
1	Randolph	0.0354	159	108
2	Randolph	0.7143	4,722	3,055
2	Randolph	0.0014	15	15
2	Randolph	0.0051	31	31
5	Pocahontas	0.0015	6	6
5	Pocahontas	0.0020	34	34
5	Pocahontas	0.1104	447	167
5	Pocahontas	0.0022	26	26
5	Pocahontas	0.0006	39	39
6	Pocahontas	0.0140	118	118
6	Pocahontas	0.0589	24	17
6	Pocahontas	0.0004	10	10
6	Pocahontas	0.0144	60	60
7	Pocahontas	0.0007	7	7
7	Pocahontas	0.0004	7	7
7	Pocahontas	0.0124	85	85
7	Pocahontas	0.0009	30	30
7	Pocahontas	0.0013	17	17
7	Pocahontas	0.0069	108	108
7	Pocahontas	0.020	291	3

7	Pocahontas	0.0161	610	220
7	Pocahontas	0.0014	47	47
7	Pocahontas	0.0021	53	53
7	Pocahontas	0.0005	26	26
7	Pocahontas	0.3484	3,313	1,233
8	Pocahontas	0.0012	220	220
8	Pocahontas	0.0024	10	10

All RBC occurrences are on private land and we are not aware of specific activities that have occurred that benefit or adversely affect the species. However, because most occurrences of RBC are located on or near old logging roads or trails, they have likely received some type of occasional disturbance. For example, beneficial effects may have occurred at some RBC occurrences as a result of occasional foot traffic or ORV use by landowners. Conversely, adverse effects may have occurred from higher frequencies of ORV travel during a shortened time period or heavy equipment use of old logging roads during land management or timbering operations.

Roanoke logperch – Presence/absence surveys for RLP were not conducted for the proposed action. RLP presence is assumed where suitable habitat was identified within potential habitat and in areas known to support RLP. Genetic analysis (Roberts et al. 2013) of RLP indicated a dispersal extent of up to 80 river kilometers (km) and the authors recommended monitoring and recovery efforts should target entire catchment areas. The following waterbody crossings were categorized as suitable habitat identified by desk-top analysis or in-situ assessment: Butterwood Creek (milepost [(MP)] 253.7) and Sturgeon Creek (MP 272). The following waterbody crossings were categorized as known to support RLP-presence assumed: Nottoway River 1 (MP 260.7) and Waqua Creek (MP 267.4).

Butterwood Creek crossing, Dinwiddie County, VA, is a tributary to the Nottoway River and was not assessed for RLP habitat suitability due to access restrictions. The construction ROW is 26 meters (m) wide at this crossing. We assume the wetted width is the same as the other tributary crossings, 8 m. The Lahey and Angermeier (2007) model infer this segment is not occupied by RLP due to stream order and Shreve link values. However, the VA Department of Game and Inland Fisheries (VDGIF 2005) model and Anderson (2016) model identify this crossing as potential RLP habitat and RLP presence is assumed. RLP occurrences are documented 17-22 km downstream of the crossing (VA Fish and Wildlife Information Service 2017). Lahey and Angermeier (2006) hypothesized RLP in Nottoway River tributaries are likely sparsely distributed at low densities. We expect numbers in this tributary are comparable to RLP numbers reported in other tributaries of the Nottoway River. Waqua Creek is the only tributary crossed for this project that has applicable RLP survey information, details of which are discussed below.

Sturgeon Creek crossing, Brunswick County, VA, is a tributary to the Nottoway River and

contains suitable RLP habitat based on the in-situ assessment (Environmental Solutions & Innovations, Inc. [ESI] 2017). Sturgeon Creek is a perennial, low gradient stream at the crossing. The substrate is composed of 20% gravel, 10% clay, 10% cobble, and 60% sand. The stream morphology is characterized as 50% run, 20% riffle, and 30% pool habitats. Average and maximum depths measured 0.4 m and 1.3 m, respectively (ESI 2016, 2017). The construction ROW is 38 m wide at this crossing, the wetted width is 8 m. The Anderson (2016) model identifies this crossing as potential RLP habitat. RLP occurrences are documented 9.7-10.5 km downstream of the crossing (VA Fish and Wildlife Information Service 2017). We expect numbers in this tributary are comparable to RLP numbers reported in other tributaries of the Nottoway River. Waqua Creek is the only tributary crossed for this project that has applicable RLP survey information, details of which are discussed below.

Nottoway River 1 crossing, Dinwiddie and Brunswick Counties, VA, is known to support RLP. Therefore, RLP presence is assumed and habitat suitability was not assessed. The construction ROW is 38 m wide at this crossing, the wetted width is 22 m. The Anderson (2016) model identifies this crossing as potential RLP habitat. Documented RLP occurrences are 0.8 km downstream of the crossing (VA Fish and Wildlife Information Service 2017). During 2016 and 2017 mussel surveys, RLP were found in the area of direct impact from the proposed pipeline crossing and downstream of the proposed pipeline crossing (ESI 2017). Twelve RLP were observed during the July 2017 mussel survey of this crossing (S. Trichell, Dominion Energy Services, email to T. Andersen and S. Hoskin, Service, August 25, 2017). Mussel surveys were conducted 200 m upstream and 800 m downstream of the proposed crossing, the same distance instream sedimentation is expected to travel. We used this survey information to estimate the total number of RLP present at this crossing. We added a correction factor since mark-recapture data indicates that only about 10% of RLP are actually detected during surveys (P. Angermeier, U.S. Geological Survey VA Cooperative Fish and Wildlife Research Unit, email to Service, February 2, 2012). To incorporate the detectability correction factor we multiplied the 12 RLP found in the action area by 10 and estimate that approximately 120 RLP occur within the Nottoway River at this crossing.

Waqua Creek crossing, Brunswick, VA, is a tributary to the Nottoway River and known to support RLP. Therefore, RLP presence is assumed and habitat suitability was not assessed. The construction ROW is 27.4 m wide at this crossing, the wetted width is 8 m. Waqua Creek is a low gradient stream and substrates are composed of 15% gravel, 5% silt, and 80% sand. Stream morphology is characterized as 70% run and 30% pool habitats. Average and maximum depths measure 0.49 and 2.0 m, respectively (ESI 2016, 2017). The Anderson (2016) model identifies this crossing as potential RLP habitat. One RLP was documented on July 12, 2012, 3.7 km downstream of the crossing (Roberts and Angermeier 2012). To incorporate the detectability correction factor we multiplied the 1 RLP found in a reach of similar length to the action area by 10 and estimate that approximately 10 RLP occur within Waqua Creek at this crossing.

As stated earlier, we expect Butterwood and Sturgeon Creeks support the same density of RLP as Waqua Creek. Ten RLP are estimated to occur at the Waqua Creek crossing; therefore an estimated 10 RLP are expected to occur at each of the Butterwood and Sturgeon Creek crossings. An estimated 120 RLP are expected to occur at Nottoway River 1. A total of 150 RLP are expected to occur in the action area.

In the Anderson (2016) model, RLP potential habitat covers approximately 2,552 km in VA and NC, of which 497.753 km are in the Nottoway River basin. The proposed project crosses 4 waterbodies (Butterwood Creek, Sturgeon Creek, Nottoway River 1, and Waqua Creek) known or with potential to support RLP. The proposed action has the potential to impact 1,000 m (200 m above and 800 m below a crossing) plus the construction ROW at each crossing or a total of 4,130 m in VA. The action area represents approximately 0.80% of the total RLP potential habitat in the Nottoway River basin and 0.16% of the total RLP potential habitat in NC and VA.

RLP decline in the action area is primarily the result of destruction and modification of habitat and fragmentation of the species range. Primary causes of RLP habitat degradation include chemical spills, non-point runoff, channelization, impoundments, impediments, and siltation; and the Nottoway River and tributaries were added to VA's impaired waters list in 2014.

Clubshell – In 1995, 168 clubshell were documented at a site downstream of the I-79 Bridge over Hackers Creek in Lewis County, WV. In 2004, WVDNR visited this location to establish a long-term clubshell monitoring location and found 18 live clubshell. During this visit, a “hazmat” boom was found along the bank of Hackers Creek under the I-79 Bridge indicating a spill had occurred (WVDNR 2004). Additionally, a spring that appeared to be high in iron was located between the proposed monitoring site and the I-79 Bridge. As a result, the long-term monitoring site was relocated further upstream in Hackers Creek at the Life's Run Bridge (County Route 14) in Lewis County, WV, where a population of 38 clubshell occurred. The 18 clubshell from the downstream area were relocated to this upstream site because it was determined to be safer for the species (WVDNR 2004).

Data from the long-term monitoring site (the Hackers Creek population) has been collected every 5 years. The 2009 and 2014 monitoring events documented a continued decline and no recruitment (29 individuals in 2009; 19 individuals in 2014) (WVDNR 2009, 2014). The Hackers Creek population is the only extant clubshell population in the Monongahela River drainage (WVDNR 2004). Continued declines in the number of individuals have raised concerns that the population may be in peril (WVDNR 2014). Surveys for clubshell were conducted in Hackers Creek in Lewis County, WV, in 2015 (ESI 2016) approximately 3.2 miles upstream of the long-term monitoring site. This survey effort did not document clubshell.

Approximately 6.4 miles of construction ROW and 11.9 miles of access roads from MP 14.7 to MP 21.1 are proposed in the upstream drainage area of the Hackers Creek 12-digit hydrologic unit code (HUC-12) watershed. The construction ROW and access roads in this area total approximately 151.28 acres, of which 149 acres are forested. Six tributaries of Hackers Creek are proposed to be crossed within this HUC-12; the closest is 1.23 miles upstream from the Hackers Creek clubshell population and the furthest is 6.25 miles upstream from the Hackers Creek clubshell population.

Threats leading to the decline of the Hackers Creek population include a high sediment load suspected to result from mining, gas well construction, highway runoff, and agricultural practices (WVDNR 2014). The action area is currently affected by traditional oil and gas drilling activities and newer oil and gas activities that involve water withdrawals and horizontally fracked

Marcellus shale wells. Water withdrawals have been suspected of affecting aquatic life during low flow conditions by causing more fluctuation in water levels which sometimes leads to the dewatering of mussel beds. Additionally, sedimentation and erosion from the supporting infrastructure for Marcellus shale gas developments are impacting streams in this area. Bank stability, often a result of land use practices, has resulted in excessive sedimentation that may reduce suitable habitat for the clubshell and can smother individuals, causing death. Excessive suspended sediments can impair feeding processes, leading to acute short-term or chronic long-term stress. Both excessive sedimentation and excessive suspended sediments can lead to reduced mussel populations (Ellis 1931, 1936; Houp 1993; Box and Mossa 1999; Anderson and Kreeger 2010).

Rusty patched bumble bee – The action area in NC is not within the historical range of RPBB. Within the action area in WV there are historical records of RPBB in Randolph County in the 1990s and in Lewis, Pocahontas, and Upshur Counties prior to 1980. Prior to the mid-1990s, RPBB was widespread and considered common throughout its historical range, which included Lewis, Pocahontas, Randolph, and Upshur Counties. In 2017, a RPBB was collected in Mineral County, WV, which is outside the action area.

Within the action area in VA, there are no historical records for RPBB in Augusta, Bath, and Highland Counties. Prior to the mid-1990s, RPBB was widespread and considered common throughout its historical range, which included Augusta, Bath, Highland, and Nelson Counties. There is a record of 1 RPBB collected from Nelson County in 1976. There is 1 documented occurrence in VA from 2014, in Fauquier County, which is outside the action area.

An entomology survey documented a RPBB on June 6, 2017 (S. Thronson, ERM, email to S. Hoskin, Service, June 8, 2017) in Bath County, VA (Figure 4). A single worker bee foraging on a rhododendron (*Rhododendron catawbiense*) within the George Washington National Forest (GWNF) along Forest Road 124 (Project access road 36-014-AR2) was captured for identification and then released. The capture site is located approximately 1.6 km from the construction ROW (MP 93.7). One hour of additional sampling in the area surrounding the capture location was completed and no additional RPBBs were found. The magnitude of RPBB population losses and range contractions to date (82 FR 3186-3208) has greatly reduced the likelihood that the species is present elsewhere in the action area. Therefore, comprehensive RPBB surveys were not conducted throughout the action area in VA.

We assume the RPBB is most likely to occur in the 653-hectare (ha) high potential zone (HPZ) (Figure 4), which was modeled based on the single 2017 RPBB location and the species' potential ability to disperse across the landscape (Service 2017). The HPZ is primarily forested, with a few openings that may be characterized as field or meadow. Forested areas are characterized by oak (*Quercus* spp.) dominated overstory, with understory coverage of 30-50% rhododendron (*Rhododendron* spp.), mountain laurel (*Kalmia latifolia*), blueberry (*Vaccinium* spp.) and flowering forbs, and few non-native plants (ACP 2017, VDCR-DNH [VA Department of Conservation and Recreation-Division of Natural Heritage] 2017). Small openings have been created throughout the forested area by gypsy moth (*Lymantria dispar dispar*) caterpillar and wind damage. These openings provide opportunities for sub-canopy flowering shrubs and forbs to develop.

Although it is unknown where the colony nest associated with the single observed RPBB is located, suitable habitat for nest sites and overwintering queens is located within the HPZ. The colony nest associated with the single observed RPBB may be located anywhere within the 0.8 km foraging distance of the observation location (Osborne et al. 1999, Knight et al. 2005, Wolf and Moritz 2008, Service 2017). There are 201 ha (area of a circle with radius of 0.8 km) of suitable habitat for nesting within 0.8 km of the observed location.

Due to the rarity of the species in VA and uncertainty associated with some RPBB life history requirements, there is uncertainty regarding habitat use and distribution of the species during certain life stages and time periods. As a result, the following assumptions, based on the best available information, have been made about RPBB distribution and habitat use for this Opinion:

- RPBB activity (foraging, nesting, overwintering queens) is concentrated in the HPZ.
- Floral resources of sufficient quality for RPBB foraging are found throughout the HPZ and are concentrated in patches where canopy openings have been created, and these patches are evenly distributed throughout the HPZ.
- Average foraging distance for an individual RPBB is 0.8 km from a nest site (Service 2017).
- The RPBB observed in June 2017 is part of a colony consisting of 100 to 1,000 workers (Service 2016).
- The RPBB observed in June 2017 represents at least 1 colony, which is part of at least 1 population.
- Maximum dispersal distance for new queens in fall is 1 to 10 km (Service 2016) (Figure 4).
- Overwintering queens are likely to be in proximity to spring ephemerals and may be found near woodland edges or in wooded areas with canopy openings that provide light to the forest floor in the spring.
- Approximately 6-8 new foundress queens are produced at the end of summer (Goulson 2010).
- Status of colony and population in the HPZ is unknown at this time because while the presence of a worker bee signifies the existence of a colony, we have no accurate way to assess the status of the local population.
- Density of colonies in the HPZ is estimated to be approximately 14 nests per 100 ha (Dreier et al. 2014). A density of 0.14 nests/ha is among the lowest of 10 estimates of nest density found in a variety of landscape settings for the buff-tailed bumblebee (*Bombus terrestris*), a close relative of the RPBB (Chapman et al. 2003 [as cited in Charman et al. 2010], Darvill et al. 2004, Knight et al. 2005, Kraus et al. 2009, Wolf et al. 2012, Dreier et al. 2014, Wood et al. 2015). The buff-tailed bumble bee is common and abundant compared to the RPBB, but a nest density of 0.14/ha in suitable habitat is reasonable because:
 - the nest density estimates available in the literature for the buff-tailed bumble bee are for landscapes, whereas we are assuming a nest density of 0.14/ha in suitable habitat where nests would be concentrated;
 - the mean of the 10 nest density estimates made for the buff-tailed bumble bee was 34/ha, with a high of 88/ha; and,
 - it is lower than the nest density (19/ha) found for the precipitously declining great

yellow bumblebee (*B. distinguendus*), whose nests "remain thinly distributed even in current strongholds" (Charman et al. 2010). Like the RPBB, this species relies "on the continued presence of flower-rich, unimproved grassland that provides floral resources throughout the colony cycle (June to September) and contains, or is close to, suitable sites for nesting, mating and hibernation" (Charman et al. 2010).

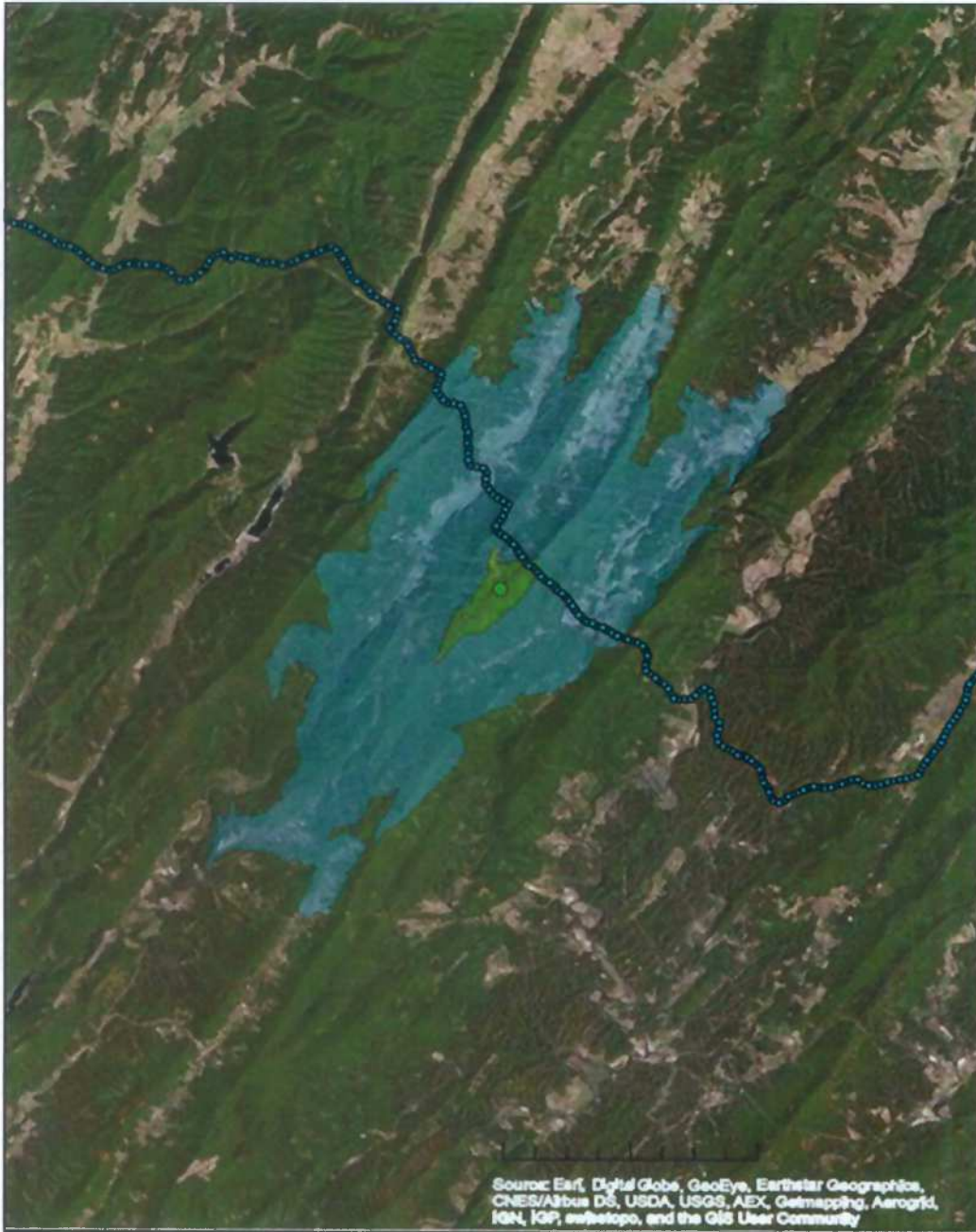


Figure 4. HPZ (green polygon in center of map) and dispersal zone (blue polygon) associated with 2017 RPBB location (green dot) in GWNF. The construction ROW (dark blue circles) bisects the tops of the HPZ.

RPBB in the HPZ are affected by existing actions associated with forest management at GWNF. Current activities in the HPZ are use of the access road by pedestrians and occasional vehicle use by 1 private landowner who rarely uses the road to access his property. No timber sales have occurred in the HPZ in recent years.

Climate change effects on RPBB are summarized from the species final listing rule (82 FR 3186-3209), “Global climate change is broadly accepted as one of the most significant risks to biodiversity worldwide; however, specific impacts of climate change on pollinators are not well understood. The changes in climate likely to have the greatest effects on bumble bees include: increased drought, increased flooding, increased storm events, increased temperature and precipitations, early snow melt, late frost, and increased variability in temperatures and precipitation. These climate changes may lead to decreased resource availability (due to mismatches in temporal and spatial co-occurrences, such as availability of floral resources early in the flight period), decreased availability of nesting habitat (due to changes in rodent populations or increased flooding or storms), increased stress from overheating (due to higher temperatures), and increased pressures from pathogens and nonnative species, (Goulson et al. 2015, p. 4; Goulson 2016, pers. comm.; Kerr et al. 2015, pp. 178–179; Potts et al. 2010, p. 351; Cameron et al. 2011a, pp. 35–37; Williams and Osborne 2009, p. 371).”

Madison Cave isopod – The presence or abundance of MCI in the action area cannot be accurately determined due to lack of effective survey protocols, access to subterranean habitat, and knowledge of subsurface connectivity. We believe the species may occur throughout the phreatic karst waters in the vicinity of the proposed project based on the MCI potential habitat model (Orndorff and Hobson 2007), which is based on the geologic layer in which MCI have been found. MCI potential habitat covers approximately 266,822 surface acres in Augusta County, VA. The construction ROW, access roads, and ATWS cross approximately 25 linear miles, covering approximately 1,974 surface acres (approximately 0.74%) of MCI potential habitat in Augusta County.

The construction ROW centerline and ATWS cross Cochran’s Cave (MP 139.8 -140.4), a privately owned site identified as a VDCR-DNH Conservation Site, a shallow depression in Augusta County, VA, which includes the vertical entrance to Cochran’s Cave No. 3 (GeoConcepts Engineering, Inc. 2017b). VDCR-DNH Conservation Site designation is their tool for representing key areas of the landscape worthy of protection and stewardship action. The construction ROW and ATWS cover 11.2 surface acres of MCI potential habitat in the Cochran’s Cave Conservation Site. While surveys of this site have not documented MCI, the site is within MCI potential habitat (Orndorff and Hobson 2007) and MCI presence should be assumed based on its location and a phreatic upwelling stream at the site (W. Orndorff, VDCR-DNH, email to S. Hoskin, Service, August 11, 2017). Cochran’s Cave is surrounded by agricultural fields interspersed with some forested land and it is likely some pesticides and sediments have entered the phreatic water in runoff from the agricultural fields.

Five sinkholes ranked “high risk potential” were found within the action area in MCI potential habitat (GeoConcepts Engineering, Inc. 2017a). Features assigned a “high risk potential” possessed a combination of 2 or more of the ranking criteria: 1) located on or immediately adjacent to the proposed construction trench; 2) presence of an open “throat” leading into the

subsurface; 3) drainage characteristics (i.e., presence of a clear-cut drainage path leading into the structure); or 4) evidence of active soil raveling, tension cracks, or collapse. The sinkholes range from 0.6 to 6.6 miles from the Cochran's Cave Conservation Site.

While we do not know the subsurface connectivity between the sinkholes and the Cochran's Cave Conservation Site, the sinkholes are in MCI potential habitat and we assume some connectivity exists. As with Cochran's Cave, the area around the sinkholes is a mixture of agriculture and forest. The sinkholes provide a conduit for sediments and contaminants to MCI habitat and we expect they contribute to degradation of MCI habitat in this area.

Indiana bat – The action area crosses the Ibat Appalachian Mountain Recovery Unit (RU) (Service 2007), encompassing 2,015.992 acres of the RU in VA and 2,431.99 acres of the RU in WV (Table 3). The Appalachian Mountain RU covers 8,762,586 acres in VA and 15,506,210 acres in WV. The action area crosses 0.023% of the Appalachian Mountain RU in VA and 0.016% in WV. The construction ROW is approximately 159 miles in WV and VA. The Service (2017a) estimates the 2017 Ibat population is 425 in VA and 1,076 in WV; these numbers indicate an 8.4% decline in VA and a 54.7% decline in WV since the 2015 census. The action area is within 4 categories of Ibat habitat: suitable unoccupied summer habitat in VA and WV; known use summer habitat in WV; unknown use spring staging/fall swarming habitat within WV, and known use spring staging/fall swarming habitat in VA and WV.

Suitable unoccupied summer habitat is defined as forested/wooded habitats in an Ibat RU in which survey results per the level of effort outlined in the Range-wide Indiana bat Summer Survey Guidelines (Service 2017b) suggest probable absence during the summer months. As of the date of this Opinion, Ibats have been acoustically detected at 17 sites along the proposed pipeline route, 13 in VA and 4 in WV. Follow up mist-net surveys per the level of effort outlined in Phase 2/Step 4 of the Range-wide Indiana bat Summer Survey Guidelines did not capture Ibats (ERM 2017a, 2017b, 2017c). Surveys are pending at 4 acoustic sites in VA; none are pending in WV (M. Voth, ERM, email to S. Hoskin, Service, September 8, 2017). Approximately 1,589.992 acres in VA and 1,685.39 acres in WV (83.6 miles in total) proposed for clearing are classified as suitable unoccupied summer habitat (Table 3).

Known use summer habitat is defined as areas within: a 5-mile radius (home range) of a pregnant female or juvenile capture or within 2.5 miles of a known roost tree. None occurs in VA (Table 3). Approximately 8.54 miles of construction ROW and 6.38 miles of access roads, a total of 144.1 acres, will be cleared within known use summer habitat in WV (Table 3). Potential roost tree surveys in known use summer habitat in WV documented 2,888 potential roost trees, of which 329 were potential primary trees and 2,595 were potential secondary trees (ERM 2017d). Primary roost trees are more likely to support a maternity colony of Ibats than secondary trees. Approximately 11.9 acres remain to be surveyed in WV for potential roost trees in known use summer habitat.

Unknown use spring staging/fall swarming habitat is defined as areas within a 5-mile radius of a potentially suitable hibernaculum that have not been surveyed. Potential hibernaculum surveys are complete in VA and Phase 1 and 2 potential surveys per the Service Guidance (Service 2015) did not document new Ibat hibernacula in VA (ERM 2017e) (Table 3). Phase 2 surveys have not

been completed for 4 sites in WV. Approximately 178.1 acres proposed for clearing remain to be surveyed for potential hibernacula in WV (Table 3).

Table 3. Ibat habitat (in acres) proposed to be cleared.

Habitat Category	VA	WV	Total
Suitable unoccupied summer habitat	1,589.992	1,685.39	3,275.382
Known use summer habitat	0	144.1	144.1
Unknown use spring staging/fall swarming habitat	0	178.1	178.1
Known use spring staging/fall swarming habitat	426	424.4	850.4
Appalachian Mountain RU	2,015.992	2,431.99	4,447.982

Known use spring staging/fall swarming habitat is defined as areas within: a 5-mile radius of priority 3 and 4 hibernacula or a 10-mile radius of priority 1 and 2 hibernacula. The action area is within 5 miles of 12 known Ibat hibernacula, 5 in VA and 7 in WV (Table 4). Population estimates for the 12 Ibat hibernacula from the 2016/2017 winter surveys range from 0-73 bats (Service 2017a). The most recent Ibat counts in each hibernaculum (A. King, Service, email to S. Hoskin, Service, August 30, 2017 and C. Stihler, WVDNR, email to S. Hoskin, Service, September 6, 2017) are in Table 4. Some hibernacula have not had a documented occurrence since the 1990s. Of the known hibernacula within 5 miles of the action area, Ibats were documented in 3 (Breathing, Clarks, and Starr Chapel Caves) during the 2017 winter counts. The proposed action will clear known use spring staging/fall swarming habitat, 426 acres in VA and WNS424.4 acres in WV (Table 3).

Table 4. Known Ibat hibernacula within 5 miles of the action area^a.

County, State	Hibernaculum Name	Approximate Distance (miles) to ATWS	Hibernaculum Priority Number ^c	WNS Status (date)	Ibat Population Estimate (date)
Randolph, WV	Gooseberry Cave	1.6 (CY ^b)	4	Suspect (2014)	15 max (1990-1999)
Randolph, WV	Fortlick Cave	2.5 (CY)	3	Confirmed (2012)	16 (2016)
Randolph, WV	Stewart Run Cave	4.9 (CY)	3	Suspect (2014)	55 (2009)
Pocahontas, WV	Dreen Cave	0.7 (AR ^b)	4	Suspect (2013)	1 (2015)
Randolph, WV	Falling Spring Cave	<0.1 (AR)	4	Confirmed (2011)	44 (2009)
Randolph, WV	Simmons-Mingo Cave	0.3	4	Suspect (2014)	17 max (1990-1999)

Pocahontas, WV	Cass Cave	4.4	4	Suspect (2014)	2 max (1980-1989)
Bath, VA	Starr Chapel Cave	2.0 (AR)	3	Suspect (2010)	46 (2017)
Bath, VA	Mountain Grove Cave	3.4 (CY)	4	Suspect (2014)	2 (2000)
Bath, VA	Breathing Cave	2.3 (AR)	3	Confirmed (2009)	20 (2017)
Bath, VA	Clarks' Cave	3.1 (AR)	3	Suspect (2011)	73 (2017)
Bath, VA	Witheros Cave	4.7	4	Suspect (2011)	5 (2015)

^aThere are no known Ibat hibernacula within 5 miles of SHP.

^bCY – contractor yard, AR – access road.

^cPriority 1 is highest priority and most essential to recovery of the species. Priority 4 is least important to recovery (Service 2007).

The abundance of Ibat rangewide has declined approximately 20% due to the effects of WNS since its onset in 2006

(<https://www.fws.gov/midwest/angered/mammals/inba/pdf/2017IBatPopEstimate5July2017.pdf>). WNS was first detected in VA and WV during the 2008/2009 winter hibernacula surveys (Stihler 2012, Powers et al. 2015). VA and WV hibernacula surveys indicate Ibat populations have decreased at least 95% since the discovery of WNS (<https://www.fws.gov/midwest/angered/mammals/inba/pdf/2017IBatPopEstimate5July2017.pdf>).

Northern long-eared bat – This Opinion is for effects to the NLEB not addressed by the January 5, 2016 programmatic biological opinion implementing the final 4(d) rule

(<https://www.fws.gov/midwest/angered/mammals/nleb/pdf/BONlebFinal4d.pdf>).

There are 4 known hibernacula in the action area: Simmons-Mingo Cave, PH-S018, PH-S007/PH-S008, and PH-S019. Thirty-one NLEBs were captured at Simmons-Mingo Cave, Randolph County, WV, and NLEBs were detected at PH-S018, Randolph County, WV, PH-S007/PH-S008 and PH-S019, Pocahontas County, WV (FERC 2017).

WNS was detected in WV in 2009 at Trout Cave, Pendleton County. Since that time, WNS has been confirmed in all areas of WV where NLEB hibernacula are known to occur (Stihler 2012).

EFFECTS OF THE ACTION

Direct effects are the direct or immediate effects of the project on the species, its habitat, or designated/proposed critical habitat. Indirect effects are defined as those that are caused by the proposed action and are later in time, but still are reasonably certain to occur (50 CFR 402.02). An interrelated activity is an activity that is part of the proposed action and depends on the proposed action for its justification. An interdependent activity is an activity that has no independent utility apart from the action under consultation. Direct and indirect effects of the

proposed action along with the effects of interrelated/interdependent activities are all considered together as the “effects of the action.”

To standardize the effects analysis, the proposed action was divided into discrete actions described as subactivities. Defining subactivities allows for easier interpretation and consideration of complex activities. The project subactivities are defined in the species effects tables (Appendix B Tables 1-8).

Small whorled pogonia – The potential effects of the proposed action are described in Appendix B Table 1. The project subactivities unlikely to result in any impacts to SWP are described in Appendix B Table 1; no effect (NE) subactivities. For those subactivities of the proposed action that are determined to result in NE to SWP, there will be no further discussion in this Opinion.

The project subactivities that may affect, but are not likely to adversely affect (NLAA), the SWP are described in Appendix B Table 1; NLAA subactivities. For those subactivities of the proposed action that are determined NLAA SWP, there will be no further discussion in this Opinion.

There are other subactivities of the project that are likely to adversely affect (LAA) SWP (Appendix B Table 1; LAA subactivities). For some components of the proposed action that may affect SWP, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix B Table 1. These subactivities are LAA SWP by altering and degrading its habitat or physically impacting individual plants.

These subactivities in the construction ROW will affect 17.0% and 12.7%, respectively, of the Seneca and MNF colonies’ upslope drainage areas. The subactivities during O&M will occur in 17.0% and 1.1%, respectively, of the Seneca and MNF colonies’ upslope drainage areas. The ground disturbing and vegetation clearing/management subactivities proposed in the upslope drainage areas of the 2 SWP colonies will result in soil compaction and vegetation removal in the construction ROW, which will increase surface water flow and downslope erosion rates and alter surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture downslope of the construction ROW near the colonies. Some of these subactivities will also redistribute and loosen soils in the construction ROW, which will cause sedimentation downslope towards the colonies. These stressors will affect both the mycorrhizal fungi relied on by SWP and individual SWP, decreasing SWP fitness and reproductive success and possibly killing individual plants. Depending on the degree of surface water runoff and sedimentation, SWP habitat may be degraded and individual stems may be buried. Blasting will also loosen large rocks, which could fall and crush SWP.

During construction and restoration, methods described in the Upland Erosion Control Plan and Restoration and Rehabilitation Plan and onsite AMMs (e.g., temporary diversion channels and berms in the SWP Conservation Plan) are expected to minimize effects through surface water erosion control and restoration of graded areas; however diversion of surface water flow away from the colonies will alter hydrology in the watershed and soil moisture, causing decreased fitness and reproductive success and possibly death of individual stems.

The vegetation clearing, management, and trimming subactivities in the construction ROW that remove and thin mid- and over-story canopy trees will alter SWP habitat by increasing direct and ambient light. ERM (2017) conducted qualitative analyses of the potential changes to light regime near each colony as a result of tree removal in the construction ROW using 3D computer modeling. For the Seneca colony, the simulations indicated significant increases in ambient and direct light on the ground and surrounding area during summer, spring, and fall days, although not quantified. For the MNF colony, the simulations indicated changes in ambient light on the ground and surrounding area during early morning on summer and fall days. This light analysis was conducted before the proposed pipeline route was moved 108 ft further from the MNF colony, but we continue to anticipate changes in light in the surrounding area due to close proximity (221 ft) of the construction ROW.

Increased light availability may increase SWP flowering and population size (Dibble et al. 1997; Dibble 2000a, 2000b; Brumback et al. 2011; McCormick et al. 2015). However, increased light availability above an unknown threshold is anticipated to degrade SWP habitat by increasing soil temperature, drying soils, and changing evapotranspiration rates, which will cause decreased fitness and reproductive success and possibly death of individual stems. Increased light levels will also facilitate germination and development of other herbaceous and/or woody species, including invasive species, which could compete with SWP. Significant changes to the sunlight regime and potential competition due to increased vegetation are likely to cause decreased fitness and reproductive success and possibly death of SWP individuals.

Methods described in the Non-Native Invasive Plant Species Management Plan (FERC 2017) will minimize effects due to invasive species in the construction ROW and access roads, but will not address herbaceous and invasive vegetation growing outside of the construction ROW and near the SWP colonies due to increased light. The SWP Conservation Plan includes temporary AMMs to monitor the population status of the SWP colonies annually for 10 years post-construction and to minimize effects from invasive species outside of the construction ROW and near the SWP colonies for 3 years (e.g., before, during, and 1 year after construction) (VHB 2017). The SWP Conservation Plan also includes planting native tree seedlings for 200 ft along the construction ROW edge to the west of the pipeline (e.g., farther away from the colony) to ameliorate for changes in sunlight regime and monitoring light levels in the colony for 3 years (e.g., before, during, and 1 year after construction) (VHB 2017). Approximately 20-30 years after planting, canopy trees (e.g., white oak [*Quercus alba*] and eastern white pine [*Pinus strobus*] found at the Seneca colony) are expected to provide some mid-story shade (Burns et al. 1990), which would contribute to partially restoring the SWP habitat.

Running Buffalo clover – The potential effects of the proposed action are described in Appendix B Table 2. The project subactivities unlikely to result in any impacts to RBC are described in Appendix B Table 2; NE subactivities. For those subactivities of the proposed action that are determined to result in NE to RBC, there will be no further discussion in this Opinion.

The project subactivities that may affect, but are NLAA, the RBC are described in Appendix B Table 2; NLAA subactivities. For those subactivities of the proposed action that are determined NLAA RBC, there will be no further discussion in this Opinion.

There are other subactivities of the project that are LAA RBC (Appendix B Table 2; LAA subactivities). For some components of the proposed action that may affect RBC, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix B Table 2. These subactivities are LAA RBC by physically impacting individual plants and/or altering or degrading its habitat. There are approximately 5.1 acres of RBC within 150 ft of the construction ROW centerline and 0.8 acres of RBC will be affected and killed (FERC 2017).

Ground disturbance subactivities related to grading, grubbing, increased foot and vehicle traffic, vegetation clearing and disposal, and trenching (Appendix B Table 2) for access roads and the construction ROW will kill RBC plants and seeds from some occurrences in 5 populations and all occurrences in 1 population (Table 2). Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction. The placement of fill and gravel will cause permanent habitat loss in all permanently maintained areas, preventing populations from re-establishing post-construction.

Burning for vegetation disposal (Appendix B Table 2) is expected to kill RBC because much of the plant structure is above ground and plants exposed to fire are likely to be killed. Additionally, topsoil containing RBC plant material and seed source is likely to be submerged in ash piles, restricting further plant growth and recolonization. We expect RBC plants and seeds within occurrences in 5 populations and all occurrences in 1 population exposed to fire and/or submerged in ash piles to be killed within the footprint of burns conducted for vegetation disposal.

Tree clearing and tree trimming subactivities (Appendix B Table 2) will remove all canopy cover over the construction ROW and significantly reduce canopy cover over access roads. While RBC is a disturbance dependent species and some level of tree removal may be beneficial (Madarish and Schuler 2002), the proposed clearing will create too much sunlight for RBC, which prefers partial to filtered sunlight. Burkhart et al. (2013) found that plots which received direct sun for most of the day did not allow RBC to persist. Increased sunlight from openings in the canopy may also increase competition from other native and invasive plant species. Invasive species are one of the primary factors influencing the status of RBC. Seed from invasive species may outcompete RBC, limiting the ability of RBC to germinate, thrive, and produce seeds.

Cleared construction ROW and improved access roads will facilitate ORV traffic and increase white-tailed deer herbivory. AMMs (installation of barriers) will minimize ORV traffic along the ROW; however, ORV traffic on access roads will not be prohibited. ORV traffic on improved access roads and the construction ROW will exceed disturbance frequencies tolerated by RBC and prevent re-establishment of RBC in some of these disturbed areas. New travel corridors are expected to increase ease of access to RBC populations by white-tailed deer, and the resulting herbivory will kill some RBC and lower reproductive output of other RBC.

Roanoke logperch – The potential effects of the proposed action are described in Appendix B Table 3. The project subactivities unlikely to result in any impacts to RLP are described in Appendix B Table 3; NE subactivities. For those subactivities of the proposed action that are determined to result in NE to RLP, there will be no further discussion in this Opinion.

The project subactivities that may affect, but are NLAA, the RLP are described in Appendix B Table 3; NLAA subactivities. For those subactivities of the proposed action that are determined NLAA RLP, there will be no further discussion in this Opinion.

There are other subactivities of the project that are LAA RLP (Appendix B Table 3; LAA subactivities). For some components of the proposed action that are anticipated to affect RLP, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix B Table 3. These subactivities are anticipated to stun, entrain, or crush RLP, or result in habitat degradation and loss due to dewatering and placement of cofferdams, placement of temporary work bridges with a center support, and/or altering water quality.

Installation and dewatering of cofferdams is anticipated to injure or kill some RLP by crushing individuals during placement of cofferdams and through stranding or entrainment as cofferdams are dewatered. Installation of the bridge center supports is likely to injure or kill a small number of RLP by crushing individuals during placement. Installation of the bridge center support is expected to disrupt breeding activities of the RLP in the work zone because supports will be installed during the RLP breeding season. We expect a range of impacts, from delaying breeding until a suitable location is found to inhibiting breeding because all suitable breeding grounds in the area have been disturbed. As a result, we anticipate that a few subsequent offspring will be smaller than their counterparts and therefore more vulnerable to predation resulting in injury or death. Inhibited breeding is expected to result in the loss of genetic contribution from those adults for the breeding season.

Temporary loss of instream habitat will occur at stream crossings that use dam and pump, cofferdams and bridge center supports. Additionally cofferdam placement/removal, installation of bridge center supports, and other instream activities will temporarily re-suspend sediments and increase turbidity. We expect the RLP in the work zone will avoid these areas until the instream structures are removed and turbidity returns to baseline levels. If instream work occurs during spawning, RLP will be unable to successfully spawn in these areas. If work occurs after completion of spawning, crushing or removal of a small percent of eggs is likely.

Adjacent upland ground-disturbing activities, such as tree clearing, grading constructing/improving access roads, and pipe stringing, are likely to introduce sediment into RLP habitat. Moderately silted and high turbidity areas will be unusable to most RLP for foraging and spawning in the immediate vicinity of the crossing. Heavy siltation is anticipated to result in a loss of prey items. If instream work occurs during spawning, a reasonable worst case scenario is a majority of RLP in the work zone will be unable to successfully spawn in these areas. If work occurs after completion of spawning, crushing or removal of a small percent of eggs is likely.

If blasting is needed for any crossings, a small number of RLP in the immediate blast area are likely be killed and the RLP in the vicinity will be temporarily stunned and/or permanently injured; some of the RLP will recover, while a small percentage of RLP will have internal injuries and die.

While implementation of AMMs (VA Fish Relocation Plan, Appendix K, and Restoration and Rehabilitation Plan, Appendix F, of the FEIS [FERC 2017]) should significantly reduce the likelihood of mortality or injury from stream crossings, which include placement of cofferdams, these effects are still anticipated. Additionally, streambank vegetation removal is likely to alter a small portion of RLP habitat. Loss of streambank vegetation is expected to result in increased water temperatures, which can lower dissolved oxygen levels, and changes in light regime in small areas. Changes in water temperature and light regime are anticipated to shift the RLP prey base to species that are more tolerant to light and lower dissolved oxygen and make the habitat less suitable for the RLP themselves. For work along existing ROW, riparian vegetation will be replanted. New alignments will result in permanent removal of riparian vegetation. These changes are anticipated to decrease the fitness of a small portion of RLP individuals by shifting their diet and potentially decreasing the dissolved oxygen levels in small patches of the waterbodies.

Clubshell – The potential effects of the proposed action are described in Appendix B Table 4. The project subactivities unlikely to result in any impacts to clubshell are described in Appendix B Table 4; NE subactivities. For those subactivities of the proposed action that are determined to result in NE to clubshell, there will be no further discussion in this Opinion.

The project subactivities that may affect, but are NLAA, the clubshell are described in Appendix B Table 4; NLAA subactivities. For those subactivities of the proposed action that are determined NLAA clubshell, there will be no further discussion in this Opinion.

There are other subactivities of the project that are LAA clubshell (Appendix B Table 4; LAA subactivities). For some components of the proposed action that may affect clubshell, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix B Table 4.

Subactivities that are LAA clubshell result from increased sediment loads to Hackers Creek upstream of the Hackers Creek clubshell population. Approximately 6.4 miles of construction ROW and 11.9 miles of access roads from MP 14.7 to MP 21.1 are proposed in the upstream drainage area of the Hackers Creek HUC-12 watershed. The construction ROW and access roads in this area total approximately 151.28 acres, of which 149 acres are forested. Six tributaries of Hackers Creek are proposed to be crossed within this HUC-12; the closest is 1.23 miles upstream from the Hackers Creek clubshell population and the furthest is 6.25 miles upstream from the Hackers Creek clubshell population. Sedimentation will affect clubshell and degrade/alter clubshell habitat.

Mussels close their valves during periods of heavy siltation to avoid irritation and clogging of feeding structures (Loar et al. 1980). Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. The stream crossings and access roads are expected to result in sedimentation and increased turbidity causing impaired feeding, resulting in reduced physiological function; depressed rates of growth, reproduction, and recruitment. We expect this will result in the death of a few individual clubshell.

Sedimentation may permanently alter and degrade habitat through siltation such that conditions are no longer favorable for clubshell. These effects will persist until high flows flush settled sediment downstream. Excessive siltation also degrades water and substrate quality. High levels of suspended sediments will reduce dissolved oxygen levels in the water, while heavy sediment deposition will fill interstitial spaces in the substrates, both of which can suffocate mussels particularly if sufficient accumulation occurs (Ellis 1936, Marking and Bills 1980).

Construction will occur during months of highest precipitation and flow rates in WV (S. Thronson, ERM, email to E. Stout, Service, September 13, 2017). Large releases of sediment may occur during storm events. Much of the sediment released from disturbed areas during storm events is expected to be transported downstream, temporarily elevating suspended solids, with those solids not washed out of the action area settling in pools. It is difficult to determine what level of excess sedimentation will be generated by the project, how far downstream sedimentation will occur, or how long these effects will persist. Factors such as storm intensity, stream channel morphology, flow rates during and post construction, and effectiveness of sediment and erosion control measures, can affect the duration and severity of instream sedimentation.

We anticipate these changes in habitat will further impair feeding, resulting in sublethal effects on growth and reproduction or starvation with long-term exposure. As a result of decreased water quality, and degraded and altered habitat we anticipate that most of the clubshell will experience impaired feeding. When high flows continue to flush sediment downstream, we expect that within 6 months post-construction the habitat will begin to return to pre-construction condition. At that time, the remaining mussels will be able to feed in an unimpaired manner. However, the population will remain below pre-construction numbers.

The implementation of AMMs (e.g., erosion and sedimentation control measures along workspace edges, and temporary equipment crossings) may ameliorate some of the sedimentation effects. However, due to the magnitude of anticipated disturbance, not all sediment will be prevented from entering waterways. As a result, we expect habitat degradation and loss will occur and some individual clubshell will experience impaired feeding while others may suffocate and die.

Rusty patched bumble bee – The potential effects of the proposed action are described in Appendix B Table 5. The project subactivities unlikely to result in any impacts to RPBB are described in Appendix B Table 5; NE subactivities. For those subactivities of the proposed action that are determined to result in NE to RPBB, there will be no further discussion in this Opinion.

The project subactivities that may affect, but are NLAA, the RPBB are described in Appendix B Table 5; NLAA subactivities. For those subactivities of the proposed action that are determined NLAA RPBB, there will be no further discussion in this Opinion.

There are other subactivities of the project that are LAA RPBB (Appendix B Table 5; LAA subactivities). For some components of the proposed action that may affect RPBB, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix B Table 5.

Within the HPZ, these subactivities may crush individuals, crush a colony, expose RPBBs to noise/vibration, and render habitat temporarily and permanently unsuitable.

Ground disturbance associated with the construction ROW is proposed to occur during the active foraging season for RPBB workers. RPBB workers are expected to be crushed by machinery during vegetation removal and construction, which will affect the ability of the workers to provide sufficient resources to the colony, resulting in reduced survival of individual workers and reduced reproductive capacity of the queen. Machinery is also expected to crush any colonies present within the action area in the HPZ.

Construction ROW activities, and restoration and maintenance activities on the access road and construction ROW may expose RPBBs to noise/vibration, causing individuals to expend additional energy to seek out alternate foraging and nesting areas, which may reduce survival and reproduction.

In the HPZ (653 ha) the proposed action (7.3 ha) is expected to include permanent (access road widening and permanent ROW) and temporary (temporary construction ROW and ATWS) habitat loss. Soil compaction during road construction may affect the ability of queens to excavate an overwintering site and may reduce the ability of rodents to excavate burrows, which reduces the ability of colonies to find appropriate nest locations, resulting in reduced reproduction. Floral resources will be removed from the entire 7.3 ha, with permanent loss within the expanded road surface and temporary loss within the construction ROW and ATWS. These floral resources include concentrations of spring ephemerals (ACP 2017, VDCR-DNH 2017) potentially used by queens after overwintering and loss of these resources will result in reduced survival and reproduction of queens. Loss of floral resources is expected to temporarily displace all RPBBs the following active season, and displaced RPBBs are expected to move to suitable habitat in the surrounding area, which will result in reduced reproduction.

Herbaceous floral resources will re-establish within 1 growing season adjacent to the new access road alignment. Flowering shrubs are likely to take 8-10 years to re-establish. As floral resources are re-established post-construction, introduction and spread of invasive plant species and use of fertilizer are expected to reduce the diversity of native floral resources, limiting the suitability of restored habitat for RPBB.

Madison Cave isopod – The potential effects of the proposed action are described in Appendix B Table 6. The project subactivities unlikely to result in any impacts to MCI are described in Appendix B Table 6; NE subactivities. For those subactivities of the proposed action that are determined to result in NE to MCI, there will be no further discussion in this Opinion.

The project subactivities that may affect, but are NLAA, the MCI are described in Appendix B Table 6; NLAA subactivities. For those subactivities of the proposed action that are determined NLAA MCI, there will be no further discussion in this Opinion.

There are other subactivities of the project that are LAA MCI (Appendix B Table 6; LAA subactivities). For some components of the proposed action that are anticipated to affect MCI, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix

B Table 6. Details of the AMMs are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I and page 4-300 of the FEIS (FERC 2017). These subactivities are expected to crush or introduce sediment that smothers MCI, or collapse or fill subsurface features and/or alter subsurface water quality and/or quantity resulting in habitat degradation, fragmentation, and loss.

There are a total of 896.7 surface acres within 0.5 mile of the construction ROW centerline and ATWS. We anticipate ground disturbing activities such as, digging, trenching, blasting, grading, constructing/improving access roads, culvert installation, and wetland crossings may introduce sediment into the subsurface areas, which could smother MCI up to 0.5 mile from the construction site. Trenching or blasting is also likely to loosen subsurface rocks, which could fall and crush MCI. Grading redistributes and loosens soil making it more prone to erosion. Depending on the amount and speed of the erosion event, MCI will either avoid a particular area until the sediment is settled or be smothered. Any MCI present in the zones of impact will likely be crushed or smothered.

Loosened subsurface rocks from trenching or blasting are expected to disrupt the subsurface water flow and alter MCI travel corridors. The fractured nature of the geology in the area generally provides numerous travel corridors, which reduces the likelihood that a blocked corridor will completely isolate an individual; however, MCI will need to expend additional energy to find an alternate route. Additionally, trenching or blasting is anticipated to intercept a subsurface void, creating a direct conduit for soil and sediment to enter into the subsurface habitat. Depending on the degree of sedimentation, habitat will be degraded or lost. These changes will render habitat temporarily or permanently unsuitable for use by the MCI and are likely to prevent movements among or between populations.

Indiana bat – The potential effects of the proposed action are described in Appendix B Table 7. We did not reach a NE determination for Ibat for any of the subactivities.

The project subactivities that may affect, but are NLAA, the Ibat are described in Appendix B Table 7; NLAA subactivities. For those subactivities of the proposed action that are determined NLAA Ibat, there will be no further discussion in this Opinion.

There are other subactivities of the project that are LAA Ibat (Appendix B Table 7; LAA subactivities). For some components of the proposed action that are likely to affect Ibats, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix B Table 7. These subactivities will temporarily or permanently remove a total of 4,448 acres of suitable habitat in the Ibat Appalachian Mountain RU. The amount of tree removal proposed in suitable unoccupied summer habitat is 3,275.382 acres (Table 3). The amount of tree removal proposed in known use summer habitat is 144.1 acres (Table 3), which includes over 9 miles of construction ROW centerline and 1.94 miles of access roads; a TOYR (trees will be removed between November 15 and March 31 in WV and November 16 and April 14 in VA, when Ibats will not be present) will be implemented in known use summer habitat. The amount of tree removal in unknown use spring staging/fall swarming is 178.1 acres (Table 3); we are assuming Ibat presence in unknown use spring staging/fall swarming habitat, and a TOYR (trees will be removed between November 15 and March 31, when Ibats will not be present) will be

implemented in unknown use spring staging/fall swarming habitat. The amount of tree removal in known use spring staging/fall swarming habitat is 850.4 acres (Table 3); a TOYR (trees will be removed between November 15 and March 31, when Ibats will not be present) will be implemented in known use spring staging/fall swarming habitat.

We expect direct effects to Ibats from tree clearing will not occur in suitable unoccupied summer habitat. However, indirect effects may occur to a small number of Ibats searching for potential roosting sites and those traveling through the area. Approximately 3,275 acres (83.6 miles) of suitable unoccupied summer habitat in VA and WV will be cleared. We do not anticipate tree clearing will impact current Ibat home ranges due to the negative survey results; however, the cleared areas will not be suitable summer habitat available for future use. Ibat home ranges vary in size from 205.1-827.8 acres (Menzel et al. 2005, Sparks et al. 2005, Watrous et al. 2006, Kniowski and Gehrt 2014, Jachowski et al. 2014). The 3,275 acres of suitable unoccupied summer habitat to be cleared represents 4-16 home ranges that will be removed from future use if tree clearing were to occur in large blocks. The proposed action is linear and therefore tree clearing is not anticipated to remove entire potential home ranges rather, sections of potential home ranges. Worst case scenario is potential home ranges will be centered along the 83.6 miles of the construction ROW every 5 miles, affecting 17 potential home ranges. This is not a reasonable scenario for several reasons. First, the construction ROW goes through previously cleared areas. Depending on the level of previous clearing, the center of the construction ROW may not be ideal because there is too much solar exposure, too much noise, or not enough cover from predators. Second, forest cover in the counties in action area is 55-86% (<https://www.fia.fs.fed.us/tools-data/>), which provides ample area to establish new home ranges.

It is likely that tree clearing will affect a part of a potential home range, which is a fraction of the potential habitat in WV and VA. We anticipate some of the areas that will be cleared are currently used as a travel corridor between hibernacula and roost trees. The construction ROW will go through a mix of previously fragmented areas and unfragmented areas. Likely Ibats would not have used previously cleared areas as travel corridors and will only be impacted in previously unfragmented areas or if tree clearing removed a narrow treed corridor that was the sole travel corridor. We anticipate effects will be greatest to pregnant females that expend additional energy to seek alternate travel corridors as a result of tree clearing. If pregnant females dramatically alter their travel corridor they will divert their energetic demands to seek new corridors and will likely give birth to smaller pups, which could decrease pup survival. Maternity roost trees were not documented in VA; therefore we expect the likelihood of pregnant females and the need to alter travel corridors to be low in VA. It is more likely that tree removal in WV will cause pregnant females to seek alternate travel corridors because known use summer habitat has been documented in WV. Ibats consistently follow tree-lined paths rather than cross open areas (Murray and Kurta 2004) and, depending on the amount of forested habitat in the surrounding area, tree removal may fragment the habitat such that Ibats traveling through the area will be more vulnerable to predation, resulting in injury or death. Because we expect Ibats will avoid the cleared areas, depending on the resulting level of fragmentation, tree clearing is likely to make the remaining forest less suitable for roosting or foraging, which will cause Ibats to expend more energy searching for alternative roosting or foraging sites, delaying their ability to gain post-hibernation weight.

Tree removal in known use summer habitat is likely to limit roosting options or necessitate roost tree switching when Ibats return the following season. Because maternity roost trees are ephemeral, Ibats have evolved to relocate roosts at the beginning of the season if needed. Because trees will be removed outside of the active season when the roost trees are not in use, the stress on an Ibat is decreased. Ibats have primary and secondary roosts and will shift between sites during a season (Humphrey et al. 1977, Gardner et al. 1991, Callahan 1993, Kurta et al. 1993, Romme et al. 1995). Therefore, in the rare instance a primary roost tree is cut, as long as alternate roosts remain in the vicinity, effects associated with loss of individual roost trees are likely to be short-term. There is a substantial amount of roosting habitat in the action area and we expect Ibats will relocate roosting areas with minimal effects to individuals.

Tree removal in unknown use spring staging/fall swarming habitat will remove foraging and roosting areas for a concentrated number of Ibats in an abbreviated season (i.e., spring emergence or fall swarming). Bats use the area around hibernacula to build fat reserves prior to hibernation and to socialize and mate in the fall. In the spring, bats spend a few hours or days around hibernacula or migrate immediately to summer habitat. Clearing trees around hibernacula will permanently decrease foraging and roosting habitat, requiring bats to spend more time searching for food, which could result in bats entering hibernation with less fat reserves resulting in decreased overwinter survival or poorer spring body condition or result in less time on social interactions, which could result in decreased breeding success. We expect the same effects on Ibats from tree removal in known use spring staging/fall swarming habitat as those described for unknown use spring staging/fall swarming habitat.

We do not anticipate Ibats will be present during tree removal activities, a TOYR (trees will be removed between November 15 and March 31, when Ibats will not be present) will be implemented around known hibernacula in WV and VA and no impacts are anticipated to Ibats hibernacula or hibernating bats. However, as discussed above tree clearing will render the habitat temporarily or permanently unsuitable for use by Ibats. Vegetation will grow back in the temporary construction ROW. We expect pine (*Pinus* spp.) and sweet gum (*Liquidambar styraciflua*) will colonize the temporary construction ROW in VA and beech (*Fagus* spp.) and maple (*Acer* spp.) will colonize the temporary construction ROW in WV, which will not create Ibat habitat. Trees that create suitable Ibat habitat will be planted along the construction ROW edge only in the limited native tree planting near 1 SWP colony (VHB 2017).

Northern long-eared bat – The potential effects of the proposed action are described in Appendix B Table 8. We did not reach a NE determination for NLEB for any of the subactivities.

There are several project subactivities that may affect (MA) the NLEB. Some of these have effects that have been previously addressed in the Service's January 5, 2016 programmatic biological opinion implementing the final 4(d) rule (<https://www.fws.gov/midwest/endangered/mammals/nleb/pdf/BOtlebFinal4d.pdf>) and are described in Appendix B Table 8; MA subactivities. For those subactivities, no detailed effects analysis discussion is required. For some components of the proposed action that MA NLEB, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix B Table 8.

There are other subactivities of the project that have not been addressed in the Service's January 5, 2016 programmatic biological opinion implementing the final 4(d) rule (Appendix B Table 8; LAA subactivities). Each of these subactivities involves tree clearing within 0.25 mile of hibernaculum PH-S018. Similar to the subactivities mentioned above, AMMs have been incorporated to ameliorate those effects and those are also noted in Appendix B Table 8.

For context, 170.94 acres of tree removal is proposed within 5 miles (anticipated spring staging/fall swarming range) of hibernaculum PH-S018. This activity will impact foraging and roosting areas for a concentrated number of bats in an abbreviated season (spring emergence or fall swarming). Bats use the area around hibernacula to build fat reserves prior to hibernation, to socialize and mate in the fall. In the spring, bats may spend a few hours or days around hibernacula or migrate immediately to summer habitat. Clearing trees around hibernacula will permanently decrease foraging and roosting habitat, which will require bats to spend more time searching for food, which could result in bats entering hibernation with less fat reserves resulting in decreased overwinter survival or poorer spring body condition or result in less time on social interactions, which could result in decreased breeding success.

In addition, NLEB may have summer maternity colonies around hibernaculum PH-S018. Individual NLEB home ranges have been minimally estimated at 148.8–173.7 acres (Owen et al. 2003, Lacki et al. 2009). The proposed clearing of 170.94 acres represents a loss of 98.4–100% of an individual home range. However, the proposed action is linear and therefore tree clearing is not anticipated to remove an entire potential home range rather, sections of potential home ranges. Depending on the resulting level of habitat fragmentation, tree clearing will make the remaining forest less suitable for future roosting or foraging. We expect NLEB will avoid the permanently cleared areas and start exploring undisturbed areas for future roost sites. This will cause NLEBs to expend more energy searching for alternative roosting or foraging sites, which will delay their ability to gain post-hibernation weight resulting in decreased growth.

We do not anticipate NLEBs will be present during tree removal activities, a TOYR (trees will be removed between November 15 and March 31, when NLEBs will not be present) will be implemented around known hibernacula in WV and no impacts are anticipated to NLEB hibernacula or hibernating bats. Tree clearing will render the habitat permanently unsuitable for use by NLEBs. However, because this clearing will occur when bats are in hibernation, it will avoid killing NLEB. We anticipate impacts will occur during the first spring, summer, and fall after tree clearing as bats emerge from hibernation. Most impacts will occur during the season after tree clearing. All impacts are expected to be limited and short-term in nature, and NLEBs are expected to acclimate to this change and shift to alternative habitat.

The majority of effects described above have been previously addressed in the Service's January 5, 2016 programmatic biological opinion implementing the final 4(d) rule and any incidental take that may occur further than 0.25 mile from a hibernacula is not prohibited under the final 4(d) rule (50 CFR §17.40(o)). However, any anticipated take of NLEB that may occur within 0.25 mile of a hibernaculum requires separate incidental take authorization (see Incidental Take Statement).

CUMULATIVE EFFECTS

Cumulative effects are those “effects of future State or private activities, not involving federal activities, that are reasonably certain to occur within the action area” considered in this Opinion (50 CFR 402.02).

Small whorled pogonia – While the Service is not aware of any specific proposed projects scheduled to occur immediately within the action area, SWP is currently being affected by a variety of actions and activities in Seneca State Forest, such as trail maintenance, as described in the Environmental Baseline section above. WVDNR is considering options to reroute the existing trail (currently 550 ft away) further from the Seneca SWP colony to reduce potential foot traffic, which may crush SWP and spread invasive plants. This action would be beneficial to SWP.

Running Buffalo clover – While the Service is not aware of any specific proposed projects scheduled to occur immediately within the action area, RBC is likely currently being affected by a variety of actions and activities such as disturbance from foot traffic or ORV use on private lands as described in the Environmental Baseline section above. All RBC occurrences are on private land and most are located on or near old logging roads or trails; therefore, they will likely received some type of occasional disturbance, some of which may be beneficial and some of which may cause adverse effects.

Roanoke logperch – While the Service is not aware of any specific proposed projects scheduled to occur immediately within the action area, RLP is likely currently being affected by a variety of actions and activities such as alteration habitat, as described in the Environmental Baseline section above. RLP habitat destruction, modification, and fragmentation from chemical spills, non-point runoff, channelization, impoundments, impediments, and siltation is expected to continue to occur, resulting in declines in RLP abundance.

Clubshell – While the Service is not aware of any specific proposed projects scheduled to occur immediately within the action area, clubshell is currently being affected by a variety of actions and activities such as oil and gas development and associated water withdrawals as described in the Environmental Baseline section above. Multiple oil and gas wells, pipelines, and water impoundments are under construction within the watershed. These activities often result in increased sedimentation and erosion to waterways due to a large quantity of earth disturbing activities. Additionally, private landowner practices within riparian areas of Hackers Creek (e.g., clearing all riparian vegetation and application of herbicides within the riparian zone) have adversely affected habitat conditions which place added stress to the already declining clubshell population.

Rusty patched bumble bee – The Service is not aware of any future state, tribal, local, or private actions that are reasonably certain to occur within the action area at this time; therefore, no cumulative effects are anticipated.

Madison Cave isopod – While the Service is not aware of any specific proposed projects scheduled to occur immediately within the action area, MCI is likely currently being affected by a variety of actions and activities such as agriculture and forest management, as described in the

Environmental Baseline section above. These areas provide for sediments and contaminants to MCI habitat and we expect they contribute to degradation of MCI habitat in this area.

Indiana bat – The Service is not aware of any future state, tribal, local, or private actions that are reasonably certain to occur within the action area at this time; therefore, no cumulative effects are anticipated.

Northern long-eared bat – The Service is not aware of any future state, tribal, local, or private actions that are reasonably certain to occur within the action area at this time; therefore, no cumulative effects are anticipated.

JEOPARDY ANALYSIS

Section 7(a)(2) of the ESA requires that federal agencies ensure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of designated critical habitat.

Jeopardy Analysis Framework

“Jeopardize the continued existence of” means to engage in an action that reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species (50 CFR 402.02). The following analysis relies on 4 components: (1) Status of the Species, (2) Environmental Baseline, (3) Effects of the Action, and (4) Cumulative Effects. The jeopardy analysis in this Opinion emphasizes the rangewide survival and recovery needs of the listed species and the role of the action area in providing for those needs. It is within this context that we evaluate the significance of the proposed federal action, taken together with cumulative effects, for purposes of making the jeopardy determination.

Analysis for Jeopardy

Small whorled pogonia

Impacts to Individuals – The proposed action includes herbaceous vegetation and ground cover clearing, tree and shrubs clearing, tree side trimming, grading, trenching, blasting, regrading/stabilization, vegetation management, and permanent ROW repair/regrading. As discussed in the Effects of the Action, potential effects of the action include effects to SWP present within the action area year-around during construction and O&M. Effects include decreased fitness and reproductive success or death of individual SWP due to degradation and loss of SWP habitat caused by altered hydrology, changes in soil moisture, downslope erosion, sedimentation, changes to sunlight regime, and competition. Individual SWP may be crushed by rocks from blasting and experience injury and death. The AMMs (e.g., SWP Conservation Plan, Upland Erosion Control Plan, Restoration and Rehabilitation Plan, and Non-Native Invasive Plant Species Management Plan) will minimize the potential effects from surface water runoff during construction and restoration and competition from invasive plants. In summary, there will be impacts to individual SWP in their annual reproduction and survival rates.

Impacts to Populations – As we have concluded that individual SWP are likely to be killed or experience some reductions in their annual or lifetime reproductive success, we need to assess the aggregated consequences of the anticipated losses of the exposed individuals on the population to which these individuals belong.

Two colonies of SWP, Seneca and MNF containing 24 and 3 individuals (i.e., stems), respectively, were found during surveys of the action area and represent individual populations. A SWP colony of 4 individuals was found outside of the action area, approximately 0.3 mile away from the MNF colony (Allstar Ecology 2016a, 2016b; ERM 2017; VHB 2017), and is considered part of the MNF population because the 2 are less than the 0.62 mile (1 km) minimum separation distance for an “element occurrence” or population, as defined by NatureServe (2002). We expect that multiple project subactivities (Appendix B Table 1) will permanently affect the Seneca population because of the permanent habitat alteration and degradation of the population’s upslope drainage and long-term changes in sunlight regime. We anticipate that the long-term viability of the Seneca population will be reduced significantly due to decreased fitness, reproductive output, and death of individual SWP and the population will have a lower number of SWP individuals permanently, but will likely not be extirpated. A portion of the MNF population (43%) will be temporarily affected by the subactivities in the construction ROW (Appendix B Table 1). For the MNF population, we anticipate a long-term reduction in fitness and reproductive success until the temporary construction ROW is restored and permanent vegetation, including shrubs and mid-story trees, is established. The affected populations represent 25% of all documented SWP populations in WV.

Impacts to Species – As we have concluded that populations of SWP are likely to experience reductions in their fitness or mortality, we need to assess the aggregated consequences of the anticipated losses and reductions in fitness of the exposed populations on the species as a whole. To understand the consequences of population-level effects at the species level, we need to understand the RND needs of the species. To meet the recovery objectives of SWP, the following must be met: 1) a minimum of 61 sites (or populations) (75% of number of sites known in 1992) must be permanently protected and distributed proportionately among the 3 geographic centers and the outliers; 2) these sites must represent at least 75% of the known self-sustaining, viable populations as determined at the time of reclassification, including a total of 20 sites having 80 stems or more (self-sustaining, viable population defined as showing a geometric mean of 20 emergent stems, over a 10-year period); 3) establishment of appropriate habitat management programs for occupied SWP habitat or protection of sufficient amount of unoccupied habitat adjacent to existing populations (Service 1992). The rangewide status of SWP is considered stable (Service 2008). As of 2007, 150 extant SWP populations were documented rangewide; however few SWP populations are monitored annually and some populations may only be visited once every 5 to 10 years, therefore it is difficult to fully assess population viability. Since 2007, 6 additional populations have been found in WV, thus the total rangewide is approximately 156 SWP populations.

The proposed action is anticipated to cause a long-term reduction in fitness of 1 population and permanent reduction in fitness of 1 population, affecting 1.3% of SWP populations rangewide. Due to the presence of 156 populations throughout its range, the reduced fitness of 2 populations

is not anticipated to change the status of the species.

Running Buffalo clover

Impacts to Individuals – The proposed action includes multiple subactivities (Appendix B Table 2) that will result in mortality of RBC individuals and will permanently alter and/or destroy RBC habitat. As discussed in the Effects of the Action, ground disturbance, tree clearing and trimming, and burning subactivities will kill individual plants. Additionally, these activities will permanently alter and degrade habitat such that conditions are no longer favorable for RBC re-establishment. Elimination of canopy cover which modifies the amount of sunlight reaching individual plants may reduce seed production and germination of some individuals and may lead to mortality of others. The increase in sunlight may also increase competition from invasive species which can outcompete RBC, prohibiting growth of individual plants. ORV traffic on improved access roads and the construction ROW will exceed disturbance frequencies tolerated by RBC and prevent re-establishment of RBC to some of the disturbed areas. Increased ease of access by white-tailed deer and the resulting herbivory will kill some RBC and lower reproductive output of other RBC. In summary, there will be impacts to individual RBC survival and fitness.

Impacts to Populations – As we have concluded that individual RBC are likely to experience mortality due to the proposed action, we need to assess the aggregated consequences of the anticipated losses of the exposed individuals on the populations to which these individuals belong.

Six populations of RBC, each consisting of multiple occurrences, will be affected by the proposed action (Appendix B Table 2). The loss of individuals from these occurrences will cause a reduction in fitness to 5 of the 6 affected populations; the remaining population will experience mortality as all individuals and occurrences will be killed due to project subactivities. There are approximately 5.1 acres of RBC within 150 ft of the construction ROW centerline and 0.8 acres will be directly affected and killed as a result of the action (FERC 2017).

Impacts to Species – As we have concluded that RBC populations are likely to experience reductions in their fitness and mortality, we need to assess the aggregated consequences of the anticipated losses of the exposed populations on the species as a whole. To understand the consequences of population-level effects at the species level, we need to understand the RND needs of RBC. To meet the goal of recovery of RBC, at least 34 populations, in total, must be distributed as follows: 2 A-ranked, 6 B-ranked, 6 C-ranked, and 20 D-ranked populations across at least 2 of the 3 regions in which RBC occurs (Appalachian, Bluegrass, and Ozark) (Service 2017). The rangewide status of the species is considered stable/improving with 152 healthy populations across all 3 regions (16 A-ranked, 35 B-ranked, 42 C-ranked, and 59 D-ranked) and 15% of these occur on protected lands (Service 2017). With the addition of the populations found during surveys for the proposed action, there are 160 RBC populations rangewide.

This proposed action will cause a reduction in fitness of 5 populations due to mortality of some individuals from some occurrences that make up these populations and will result in the loss of 1 population. There are approximately 5.1 acres of RBC within 150 ft of the construction ROW centerline and 0.8 acres will be directly affected and killed (FERC 2017). The 6 affected

populations represent 9.1% of RBC populations in WV and 3.75% of RBC populations rangewide. Due to the presence of 160 populations throughout its range, the reduced fitness of 5 populations and mortality of 1 population is not anticipated to change the status of the species.

As part of the proposed action, a 400-acre property containing part of an RBC population (approximately 50,000 rooted crowns) has been obtained and will be protected in perpetuity. This property will not be adversely affected by the proposed action. It will be enhanced for RBC by managing and treating invasive species, removing trees to provide more filtered sunlight, and providing periodic soil disturbance (e.g., disking, tractor tilling, and harrow rake digging) (AllStar Ecology 2017). Initial habitat enhancements will be monitored for a period of 5 years, which includes monitoring of existing populations. Protecting part of a RBC population is not anticipated to change the status of the species rangewide.

Roanoke logperch

Impacts to Individuals – The proposed action includes trenching, grading, constructing/improving access roads, and stream and wetland crossings. As discussed in the Effects of the Action, effects to individual RLP are expected to include injury or death from installation and dewatering of cofferdams, installation of the bridge center supports and blasting, if it occurs. Additionally, a temporary reduction in feeding or reproducing is expected as a result of either temporarily preventing access to a foraging or spawning area or altering habitat through the introduction of sediments, cofferdams, or bridge center supports such that the habitat is unsuitable for foraging or spawning. In response to sediment plumes, most RLP are anticipated to cease feeding or breeding activities and move to clearer water until sediment levels return to background levels. In particular, we expect spawning will be delayed or inhibited at Waqua and Sturgeon Creeks due to the installation of the bridge center supports during the RLP breeding period. Individuals will expend more energy to seek out different foraging and spawning areas. A TOYR (March 15 - June 30) to protect RLP during their spawning season will be implemented at Butterwood Creek and Nottoway River 1, which will minimize the potential for effects from sedimentation. Permanent removal of riparian vegetation is expected to decrease fitness of a small portion of RLP individuals. In summary, there will be impacts to individual RLPs in their annual reproduction and survival rates.

Impacts to Populations – As we have concluded that individual RLP are likely to be killed or experience some reduction in their annual reproductive success, we need to assess the aggregated consequences of the anticipated losses of the exposed individuals on the population to which these individuals belong.

We expect that the population level impacts from injury, death, and spawning disruption to the RLP will be relatively small because the proposed action affects a small number of individuals in 0.8% of the RLP habitat within the Nottoway River drainage, which is a small portion (0.16%) of the entire range of the species. Following completion of each action that results in adverse effects to RLP, we expect that the RLP population, given no other major stressors, will recover within 1-3 years assuming that most RLP in the action area experience temporary impacts. Similarly, habitat impacts are minor compared to the overall amount of RLP habitat available. The effects of the proposed action are expected to be primarily temporary; in general, RLP habitat will recover to a suitable condition following temporary impacts; and RLP are expected

to continue to occupy waterways within the action area. Therefore, we conclude that the effects from the proposed action do not pose a significant risk to the RLP and will not result in permanent population declines.

Impacts to Species – As we have concluded that populations of RLP are unlikely to experience reductions in their fitness, there will be no harmful effects (i.e., there will be no reduction in RND) on the species as a whole.

Clubshell

Impacts to Individuals – The proposed action includes multiple subactivities (Appendix B Table 4) that are ground disturbing and will result in sediment entering tributaries to Hackers Creek. As discussed in the Effects of the Action, potential effects of the action include effects to all individuals in the Hackers Creek clubshell population. Effects from sedimentation will impair feeding of individual mussels and degrade and alter habitat. Impaired feeding is anticipated to result in reduced physiological function; depressed rates of growth, reproduction, and recruitment; and ultimately mortality of a few individuals. Additionally, sedimentation may permanently alter and degrade habitat through siltation such that conditions are no longer favorable for clubshell. These effects will persist until high flows flush settled sediment downstream. We anticipate these changes in habitat will further impair feeding, resulting in sublethal effects on growth and reproduction or starvation with long-term exposure, affecting a majority of individual mussels. In summary, there will be impacts to individual clubshell survival and fitness as a result of impaired feeding and habitat degradation and alteration.

Impacts to Populations – As we have concluded that individual clubshell are likely to experience mortality due to the proposed action, we need to assess the aggregated consequences of the anticipated losses of the exposed individuals on the populations to which these individuals belong.

There is 1 population of clubshell in Hackers Creek. As a result of sedimentation, decreased water quality, and degraded and altered habitat we anticipate the Hackers Creek clubshell population will experience impaired feeding. When high flows continue to flush sediment downstream, we expect that within 6 months post-construction the habitat will begin to return to pre-construction conditions. At that time, the remaining mussels will be able to feed in an unimpaired manner. However, the population will remain below pre-construction numbers.

Impacts to Species – As we have concluded that 1 population of clubshell is likely to experience reductions in its fitness and mortality, we need to assess the aggregated consequences of the anticipated loss of the exposed population on the species as a whole. To understand the consequences of population-level effects at the species level, we need to understand the RND needs of the species.

In brief, the clubshell recovery criteria (Service 1994) are:

1. Viable populations must be established in 10 separate drainages (Tippecanoe River, IN; East Fork West Branch St. Joseph River, MI/OH; Fish Creek, IN/OH; Green River; KY; Little Darby Creek, OH; Elk River, WV; French Creek, PA; Allegheny River, PA; plus two additional drainages).

2. Each of the 10 populations must be large enough to survive a single adverse ecological event.
3. The populations and their drainages must be permanently protected from all foreseeable and controllable threats, both natural and anthropogenic.

The rangewide status of the species is considered declining. Throughout its range, there are 13 populations of clubshell occupying 21 streams (Service 2008). This includes more than 1 million individuals (Villemela 2007). However, only 7 of these populations show evidence of reproductive success, none of which occur in WV (Service 2008). Clubshell populations exist in 3 river systems in WV: the Monongahela, Kanawha, and Ohio Rivers. The Hackers Creek population is the only remaining population in the Monongahela River system.

The proposed project is anticipated to adversely impact the Hackers Creek population; however, this population is not in one of the specified drainages listed in Recovery Criteria 1 nor is it likely to be part of the 2 unspecified additional drainages. The reduction in fitness of the Hackers Creek population will not prevent meeting the Recovery Criteria. Therefore, we conclude that this project will not reduce the likelihood of survival and recovery of the clubshell.

Rusty patched bumble bee

Impacts to Individuals – As discussed in the Effects of the Action, anticipated effects of the action include effects to individual RPBBs present within the HPZ year-round. Effects include reduced reproductive success of queens as a result of removal of spring ephemerals and other floral resources, and injury or death of individual workers or queens during the active season as a result of crushing by machinery during vegetation removal and construction in the construction ROW.

In response to removal of floral resources, the following season RPBB workers will be displaced and expend more energy to seek out nearby available foraging areas and experience reduced survival as a result of the decrease in food availability. Consequently, there will be impacts to annual survival rates of a small percentage of individual RPBB workers. Individual worker bees are responsible for supporting the reproductive success of the colony by providing food resources to the queen. The health of the colony is dependent on the number of workers foraging and providing resources. This is reflected by the higher likelihood of colony collapse associated with haplodiploidy, when 50% of the workers are replaced by diploid males that do not contribute food resources to the colony. Loss of a percentage of RPBB workers will reduce the reproductive success of the queen (i.e., not as many foundress queens produced) as a result of loss of foraging resources provided by workers.

Overwintering queens may be found within the HPZ. The access road surface is not suitable overwintering habitat due to soil compaction; however, suitable habitat exists alongside the access road. Widening and improvements will impact approximately 3 m of potentially suitable overwintering habitat on either side of the existing access road within the HPZ. Within the HPZ (653 ha), the proposed action will impact 7.3 ha (1.1%) of potentially suitable overwintering habitat. Because the probability of a queen being located in that 1.1% of potentially suitable overwintering habitat is unlikely, effects to individual overwintering queens are not anticipated.

Impacts to Populations – As we have concluded that a small percentage of individual RPBB are likely to be killed or experience some reductions in their annual or lifetime reproductive success, we need to assess the aggregated consequences of the anticipated losses and reductions in fitness (i.e., reproductive success and long-term viability) of the exposed individuals on the population to which these individuals belong.

A population of RPBB is represented by the number of successful nests or colonies comprising a given geographical area, rather than a number of individuals, because a colony is founded by a single queen and represents 1 reproductive unit (Chapman and Burke 2001, Zayed 2009, Service 2016). As a result of their genetic structure, a RPBB population can only persist on the landscape in a meta-population structure. A healthy population typically contains many colonies, and loss of a colony or overwintering queen could reduce the overall viability of any metapopulation associated with those colonies due to lost opportunities to interbreed and small population dynamics. Impacts to populations may result from loss of a colony nest through crushing, crushing overwintering foundress queens, or loss of a percentage of colony workers.

The colony nest associated with the single observed RPBB may be located anywhere within a 0.8 km radius (201 ha) of the observation location (Osborne et al. 1999, Knight et al. 2005, Wolf and Moritz 2008, Service 2016). Nest density of RPBB is assumed to be approximately 0.14/ha (Chapman et al 2003 [as cited in Charman et al. 2010], Darvill et al. 2004, Knight et al. 2005, Kraus et al. 2009, Wolf et al. 2012, Dreier et al. 2014, Wood et al. 2015). There are 201 ha of suitable nesting habitat in proximity to the observed location; therefore, there may be up to 28 nests (0.14 nests/ha x 201 ha) within 0.8 km of the observed RPBB worker. The proposed action will affect up to 1.08 ha (1,800 m total access road length x 6 m additional access road width) of suitable nesting habitat within a 0.8 km radius of the observed location, which represents 0.5% (1.08 ha/201 ha) of the suitable nesting habitat, and represents the territory of 1 colony if colonies are evenly distributed. As a result, there is a 15% (affected nesting area (1.08 ha)/average area utilized by each nest (7 ha) within nesting habitat) likelihood that 1 nest will be crushed within the 1.08 ha of suitable nesting habitat to be removed. However, due to the potential presence of an additional 27 colony nests within 0.8 km of the observed RPBB, and the metapopulation dynamics of RPBB, loss of 1 colony as a result of crushing is not likely to negatively impact the fitness or survival of the population.

Loss of a small percentage of colony workers may decrease the reproductive success of the colony as a result of loss of foraging resources provided by workers to the queen (i.e., not as many foundress queens produced to start new colonies); however, the overall survival of the original colony is unlikely to be affected. The proposed action will remove 7.3 ha (1.1%) of suitable habitat within the HPZ. Habitat removed as a result of widening and improving the access road is likely to be permanently lost; however, the project activities will shift the canopy opening such that floral resources will develop along the new edge of the access road over time. There are potentially up to 28 colonies within foraging distance of the HPZ; however, only a small percentage of foraging bees are expected to be impacted, which may represent a few individuals from each colony. Impacts to individuals from most colonies will not be measureable. Nest densities are estimated to be 0.14 nests/ha; therefore, there is likely to be no more than 1 nest in direct proximity to the 7.3 ha impacted by the project. Effects to 1 colony are expected through limited and temporary impacts to reproduction as a result of loss of foraging

habitat. We anticipate a small reduction in the reproductive capacity of queens associated with colonies within average foraging distance (0.8 km) of the proposed action, as a result of decreased foraging ability of workers. However, due to the metapopulation dynamics of RPBB, limited indirect impacts to ability of queens associated with 1 colony to produce workers and foundress queens are not likely to negatively impact the fitness or survival of the population.

Impacts to Species – As we have concluded that populations of RPBB are unlikely to experience reductions in their fitness, there will be no harmful effects (i.e., there will be no reduction in RND) on the species as a whole.

Madison Cave isopod

Impacts to Individuals – The proposed action includes trenching, blasting, grading, constructing/improving access roads, and wetland crossings. As discussed in the Effects of the Action, potential effects of the action include effects to MCI present within the action area during construction. Individuals will need to expend more energy to seek out different travel corridors, food sources, or mates. Effects include a temporary reduction in feeding or reproducing as a result of either a potentially blocked travel corridor or the need to shift from an area where MCI could be feeding or reproducing. Depending on the severity of the impact, some individuals are likely to die from crushing or smothering if they do not move from the area quickly. However, the AMMs (enhanced sediment and erosion control measures) will minimize the potential for direct and indirect effects from sedimentation. In summary, there will be impacts to individual MCIs in their annual survival rates.

Impacts to Populations – As we have concluded that individual MCIs are likely to be killed or experience some reduction in their annual reproductive success, we need to assess the aggregated consequences of the anticipated losses of the exposed individuals on the population to which these individuals belong.

No documented MCI localities occur in the proposed construction ROW centerline or ATWS; however, we consider Cochran's Cave an undocumented MCI locality. Documented localities represent a sampling point where MCI were captured. For this analysis we are using localities as a surrogate for a population.

Limited information exists on the connectivity of MCI populations, preventing an understanding of how impacts at a given site may relate to populations. Sites that are impacted could be rapidly recolonized if the site was part of a larger population, or they could be eliminated with little chance of subsequent recolonization if not part of a larger population.

We expect decreased fitness of the Cochran's Cave MCI population. A total of 896.7 surface acres of MCI potential habitat is within 0.5 mile of the construction ROW centerline and ATWS that bisect Cochran's Cave. Within that area, the construction ROW centerline and ATWS bisect the Cochran's Cave Conservation Site, including the vertical entrance to the cave, totaling 11.2 surface acres of disturbance. While the AMMs provided in the FEIS (FERC 2017) will ameliorate much of the adverse effects, they will not be completely effective in preventing all sediment from entering the phreatic water. Additionally, the AMMs cannot completely prevent shifts in surface and sub-surface formations and hydrology from trenching, digging, or blasting.

Sudden shifts in subterranean structures are likely to crush or trap MCIs, alter their travel corridors, or isolate portions of the population. We anticipate a reduction in the fitness of this undocumented population.

Impacts to Species – As we have concluded that 1 undocumented population of the MCI is likely to experience a reduction in fitness, we need to assess the aggregated consequences of the anticipated reductions in fitness of the exposed population on the species as a whole.

To understand the consequences of population-level effects at the species level, we need to understand the RND needs of the species. In brief, the MCI recovery criteria (Service 1996) are:

1. Populations of MCI at Front Royal Caverns, Linville Quarry Cave No. 3, and Madison Saltpeter Cave/Steger's Fissure are shown to be stable over a 10-year monitoring period.
2. The recharge zone of the deep karst aquifer at each of the population sites identified in Criterion 1 is protected from all significant groundwater contamination sources.
3. Sufficient population sites are protected to maintain the genetic diversity of the species. Protection of newly discovered populations, if any, will be incorporated into this criterion insofar as they contribute to maintenance of overall genetic diversity.

The rangewide status of the species appears to be stable (Service 2011). The proposed project is anticipated to adversely impact 1 undocumented population; however, it is unlikely to adversely impact any of the populations listed in Recovery Criteria 1. The potential reduction in the fitness of 1 undocumented population will not measurably reduce the species ability to recover. Therefore, we conclude that this project will not reduce the likelihood of survival and recovery of the MCI.

Indiana bat

Impacts to Individuals – The proposed action includes removal of 4,448 acres of Ibat suitable habitat that is likely to cause pregnant females to expend energy when required to alter their travel corridors, and as a result give birth to smaller sized pups with a lower likelihood of survival. While a pup might die as a result of being born small, it is not expected given the low likelihood that maternity roost trees are in the action area. Tree removal may fragment the habitat such that individual Ibats traveling through the area will be more vulnerable to predation, resulting in injury or death. Tree clearing is likely to make the remaining forest less suitable for roosting or foraging, which will cause Ibats to expend more energy searching for alternative roosting or foraging sites resulting in impacts to individual Ibats in their annual survival rates.

We expect most effects from tree removal will occur during spring staging or fall swarming to individual Ibats that hibernate in Starr Chapel, Breathing, or Clark's Caves, which were known hibernacula with documented Ibats in the 2017 winter surveys. No direct effects are anticipated but individual Ibats may be temporarily harmed (reduced overwinter survival or reproductive success) by loss of spring staging/fall swarming habitat. Bats travel between hibernacula during fall swarming to mate and likely assess the relative suitability of potential hibernation sites (Brack et al. 2005). Effects to individual Ibats could be minor such as a slight shift in roosting/foraging areas or more significant such as delayed mating in the fall or fertilization in the spring. Bats born earlier in the year have a greater chance of surviving their first winter and breeding in their first year of life (Frick et al. 2010). Removing some of the roosting/foraging

habitat is likely to delay the birth of a small number of Ibats, thereby decreasing their odds of surviving.

Impacts to Populations – As we have concluded that individual Ibats are likely to experience some reduction in their lifetime survival or reproductive success, we need to assess the aggregated consequences of the anticipated reductions in fitness of the exposed individuals on the population to which these individuals belong.

Individuals using the known use spring staging/fall swarming habitat at 3 hibernacula will be affected. The effects are not expected to measurably decrease the fitness of the hibernating populations. Any removal of trees within the known use spring staging/fall swarming habitat will occur during the winter when bats are hibernating, which will limit disrupting fall swarming or spring staging activities and will avoid directly killing Ibats. Further, not every Ibat from the 3 hibernacula will be exposed to stressors associated with tree clearing because effects are to a small portion of the known use spring staging/fall swarming habitat around each hibernaculum. Acres of trees removed around the 3 hibernacula are as follows: Star Chapel Cave 96 acres (0.2% of known spring staging/fall swarming habitat); Breathing Cave 189 acres (0.5% of known spring staging/fall swarming habitat), and Clarke's Cave 141 acres (0.3% of known spring staging/fall swarming habitat) (see Table 4.7.1-7, page 4-265 of the FEIS for details [FERC 2017]). We anticipate limited effects during the first spring after tree clearing as bats emerge from hibernation. We anticipate most effects will occur during the first fall swarm after tree clearing. Bats are expected to acclimate to this change and shift to alternative habitat within the known use spring staging/fall swarming habitat. All effects are expected to be limited and short-term in nature. We do not expect a long-term reduction in any hibernating populations because the Ibat is adapted to ephemeral environments and a significant portion of the known use spring staging/fall swarming habitat will remain. The effects from the proposed action will not result in permanent population declines.

Impacts to Species – As we have concluded that populations of Ibats are unlikely to experience reductions in their fitness, there will be no harmful effects (i.e., there will be no reduction in RND) on the species as a whole. Additionally, as part of the proposed action, a 400-acre property containing 10 caves and 396 acres of forest that will not be affected by the action has been obtained and will be protected in perpetuity. The property will be improved and enhanced for bats through installation of watering/foraging pools, snag creation, and erection of artificial roost structures (bat boxes). Ibats have not been detected in any of these caves as of the date of this Opinion, but protection of this site may benefit Ibats in the future.

Northern long-eared bat

Impacts to Individuals – The majority of impacts to NLEB have been previously addressed in the Service's January 5, 2016 programmatic biological opinion implementing the final 4(d) rule. Some effects to NLEB associated with impacts to habitat surrounding hibernaculum PH-S018 have not. The proposed action includes the permanent removal of 170.94 acres of forest around a NLEB known hibernaculum; 0.4 acres are not addressed by the programmatic opinion. This area may be used as roosting/foraging habitat in the fall or spring or by maternity colonies. No direct effects are anticipated but individual NLEB may be temporarily affected by loss of fall swarming, spring staging, and summer habitat resulting in reduced overwinter survival or

reproductive success.

Impacts to Populations – As we have concluded that individual NLEB are likely to experience some reduction in their lifetime survival or reproductive success, we need to assess the aggregated consequences of the anticipated reductions in fitness of the exposed individuals on the population to which these individuals belong.

Bats are expected to acclimate to this permanent habitat removal by shifting to alternative habitat. All impacts are expected to be limited and short-term in nature. We do not expect a long-term reduction in the PH-S018 population or potential maternity colony because the NLEB is adapted to ephemeral environments and a significant portion of the spring staging/fall swarming winter habitat or potential maternity colony habitat will remain. Therefore, we conclude that the effects from the proposed action will not result in permanent population declines.

Impacts to Species – As we have concluded that populations of NLEB are unlikely to experience reductions in their fitness, there will be no harmful effects (i.e., there will be no reduction in RND) on the species as a whole. Additionally, as part of the proposed action, a 400-acre property containing 10 caves and 396 acres of forest that will not be affected by the action will be protected in perpetuity. The property will be improved and enhanced for bats through installation of watering/foraging pools, snag creation, and erection of artificial roost structures (bat boxes). NLEBs have not been detected in any of these caves as of the date of this Opinion, but protection of this site may benefit NLEBs in the future.

CONCLUSION

Small whorled pogonia – We considered the current overall stable status of the SWP and the similar condition of the species within the action area (environmental baseline). We then assessed the effects of the proposed action and the potential for cumulative effects in the action area on individuals, populations, and the species as a whole. These types of effects of the proposed action are currently considered primary factors influencing the status of the species. While the proposed action may compound those factors, as stated above, we do not anticipate any reductions in the overall RND of the SWP. It is the Service's Opinion that authorization to construct and operate the pipeline, as proposed, is not likely to jeopardize the continued existence of the SWP.

Running Buffalo clover – We considered the current overall stable/improving status of RBC and the similar condition of the species within the action area (environmental baseline). We then assessed the effects of the proposed action and the potential for cumulative effects in the action area on individuals, populations, and the species as a whole. These types of effects of the proposed action are currently considered primary factors influencing the status of the species. While they may compound those factors, as stated above, we do not anticipate any reductions in the overall RND of RBC. It is the Service's Opinion that authorization to construct and operate the pipeline, as proposed, is not likely to jeopardize the continued existence of RBC.

Roanoke logperch – We considered the current overall improving status of the RLP and the stable condition of the species within the action area (environmental baseline). We then assessed

the effects of the proposed action and the potential for cumulative effects in the action area on individuals and populations, and the species as a whole. These types of effects of the proposed action are not currently considered primary factors influencing the status of the species. While they may compound those factors, as stated above, we do not anticipate any reductions in the overall RND of the RLP. It is the Service's Opinion that authorization to construct and operate the pipeline, as proposed, is not likely to jeopardize the continued existence of the RLP.

Clubshell – We considered the current overall declining status of clubshell and the similar condition of the species within the action area (environmental baseline). We then assessed the effects of the proposed action and the potential for cumulative effects in the action area on individuals, populations, and the species as a whole. These types of effects of the proposed action are currently considered primary factors influencing the status of the species. While they may compound those factors, as stated above, we do not anticipate any reductions in the overall RND of the species. It is the Service's Opinion that authorization to construct and operate the pipeline, as proposed, is not likely to jeopardize the continued existence of the species.

Rusty patched bumble bee – We considered the current overall declining status of the RPBB and the unknown condition of the species within the action area (environmental baseline). We then assessed the effects of the proposed action and the potential for cumulative effects in the action area on individuals, populations, and the species as a whole. These types of effects of the proposed action are not currently considered primary factors influencing the status of the species. While they may compound those factors, as stated above, we do not anticipate any reductions in the overall RND of the RPBB. It is the Service's Opinion that authorization to construct and operate the pipeline, as proposed, is not likely to jeopardize the continued existence of the RPBB.

Madison Cave isopod – We considered the current overall stable status of the MCI and the similar condition of the species within the action area (environmental baseline). We then assessed the effects of the proposed action and the potential for cumulative effects in the action area on individuals, populations, and the species as a whole. These types of effects of the proposed action are currently considered primary factors influencing the status of the species. While the proposed action may compound those factors, as stated above, we do not anticipate any reductions in the overall RND of the MCI. It is the Service's Opinion that authorization to construct and operate the pipeline, as proposed, is not likely to jeopardize the continued existence of the MCI.

Indiana bat – We considered the current overall declining status of the Ibat and the similar condition of the species within the action area (environmental baseline). We then assessed the effects of the proposed action and the potential for cumulative effects in the action area on individuals, populations, and the species as a whole. These types of effects of the proposed action are currently considered primary factors influencing the status of the species. While they may compound those factors, as stated above, we do not anticipate any reductions in the overall RND of the Ibat. It is the Service's Opinion that authorization to construct and operate the pipeline, as proposed, is not likely to jeopardize the continued existence of the Ibat.

Northern long-eared bat – We considered the current overall declining status of the NLEB and

the similar condition of the species within the action area (environmental baseline). We then assessed the effects of the proposed action and the potential for cumulative effects in the action area on individuals, populations, and the species as a whole. These types of effects of the proposed action are currently considered primary factors influencing the status of the species. While they may compound those factors, as stated above, we do not anticipate any reductions in the overall RND of the NLEB. It is the Service's Opinion that authorization to construct and operate the pipeline, as proposed, is not likely to jeopardize the continued existence of the NLEB.

INCIDENTAL TAKE STATEMENT

Section 9 of the ESA and federal regulation pursuant to Section 4(d) of the ESA prohibit the take of endangered and threatened species, respectively, without a special exemption. Take is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. Harm is further defined by the Service to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavioral patterns including breeding, feeding, or sheltering (50 CFR § 17.3). Harass is defined by the Service as intentional or negligent actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns, which include, but are not limited to, breeding, feeding, or sheltering (50 CFR § 17.3). Incidental take is defined as take that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity. Under the terms of Section 7(b)(4) and Section 7(o)(2), taking that is incidental to and not intended as part of the agency action is not considered to be prohibited taking under the ESA provided that such taking is in compliance with the terms and conditions of this incidental take statement.

The measures described below are nondiscretionary, and must be undertaken by the FERC so that they become binding conditions of any grant or permit issued to the applicant, as appropriate, for the exemption in Section 7(o)(2) to apply. The FERC has a continuing duty to regulate the activity covered by this incidental take statement. If the FERC: (1) fails to assume and implement the terms and conditions or (2) fails to require the applicant to adhere to the terms and conditions of the incidental take statement through enforceable terms that are added to the permit or grant document, the protective coverage of Section 7(o)(2) may lapse. To monitor the impact of incidental take, the FERC must report the progress of the action and its impact on the species to the Service as specified in the incidental take statement [50 CFR 402.14(i)(3)].

On January 14, 2016, the Service published a final species-specific rule pursuant to Section 4(d) of the ESA for the NLEB (50 CFR §17.40(o)), which became effective February 16, 2016. The Section 4(d) rule defines prohibited take of the NLEB, which is limited to certain circumstances and activities within the full suite of prohibitions otherwise applicable to threatened species under 50 CFR §17.31. The majority of incidental take of the NLEB that may occur from the proposed action is not considered prohibited take under the NLEB 4(d) rule. Therefore, that taking does not require exemption from the Service. However, any incidental take associated with impacts to 0.4 acres of habitat removal within 0.25 miles of a hibernaculum is addressed below.

Section 7(b)(4) and 7(o)(2) of the ESA generally do not apply to listed plants species. However, limited protection of listed plants from take is provided to the extent that the ESA prohibits the removal and reduction to possession of federally listed endangered plants or the malicious damage of such plants on areas under federal jurisdiction, or the destruction of endangered plants on non-federal areas in violation of State law or regulation or in the course of any violation of a State criminal trespass law.

AMOUNT OR EXTENT OF TAKE ANTICIPATED

The Service analyzed the effects to the species above.

Roanoke logperch – To estimate incidental take, we calculated the area of RLP habitat at each crossing (i.e., wetted width of the waterbody by the total of the construction ROW width and the 1,000 m stream length at each crossing) as follows: Butterwood Creek (8 m)(26 m + 1,000 m) = 8,208 m²; Sturgeon Creek (8 m)(38 m + 1,000 m) = 8,304 m²; Nottoway River 1 (22 m)(38 m + 1,000 m) = 22,836 m²; and Waqua Creek (8 m)(27.4 m + 1,000 m) = 8,219.2 m². Total = 47,564 m². Then we calculated the subset of the action area (i.e., wetted width of the waterbody by the construction ROW width) for cofferdam and bridge center support placement and removal: Butterwood Creek (8 m x 26 m) = 208 m²; Sturgeon Creek (8 m x 38 m) = 304 m²; Nottoway River 1 (22 m x 38) = 836 m²; and Waqua Creek (8 m x 27.4 m) = 219.2 m². Total = 1,567.2 m². Effects from cofferdam and bridge center support placement and removal comprise approximately 3.3% [(1,567.2 m²/47,564 m²)(100)] of the action area. The anticipated take is described in Table 5 below.

Table 5. RLP amount and type of anticipated incidental take.

Species	Amount of Take Anticipated	Life Stage when Take is Anticipated	Type of Take	Take is Anticipated as a Result of
RLP	5	Adults or juveniles	Injury or Kill	Crushing due to installation and removal of cofferdams and bridge center support (i.e., 3.3% of the action area x 150 RLP in action area).
RLP	145	Adults or juveniles	Harm or Harass	Sedimentation and subsequent habitat alteration from cofferdam dewatering and upland construction activities.

Clubshell – The Service anticipates incidental take of clubshell will be difficult to detect for the following reason: up to 70% of a population can be distributed below the substrate surface. However, the following level of take of this species can be anticipated by loss of habitat from 130 m downstream to 455 m upstream of Life’s Run Bridge (County Route 14) (total of 585 m) because this area contains suitable clubshell habitat. The anticipated take is described in Table 6 below.

Table 6. Clubshell amount and type of anticipated incidental take.

Species	Amount of Take Anticipated	Life Stage when Take is Anticipated	Type of Take	Take is Anticipated as a Result of
Clubshell	Small percent of	Adults	Kill	Mortality of a few individuals from

	individuals present within 585 m			sedimentation.
Clubshell	Majority of individuals present within 585 m	Adults	Harm or Harass	Impaired feeding as a result of habitat degradation from sedimentation.

Rusty patched bumble bee – The Service anticipates incidental take of RPBB will be difficult to detect for the following reasons: species has small body size, losses may be masked by seasonal fluctuations in numbers and other environmental factors, and species occurs in habitat (i.e., underground) that makes detection difficult. However, the following level of take of this species can be anticipated by loss of 7.3 ha in the HPZ because this area contains suitable RPBB habitat. The anticipated take is described in Table 7 below.

Table 7. RPBB amount and type of anticipated incidental take.

Species	Amount of Take Anticipated	Life Stage when Take is Anticipated	Type of Take	Take is Anticipated as a Result of
RPBB	Small percent of individuals from 1 colony present within 7.3 ha	Queens	Harm or Harass	Reduced reproduction associated with loss or alteration of foraging habitat.
RPBB	1 colony present within 7.3 ha	Adult workers, males, or queen	Kill	Crushing due to pipeline construction, vegetation removal, and operational vehicle traffic.

Madison Cave isopod – The Service anticipates incidental take of the MCI will be difficult to detect for the following reasons: small body size, finding a dead or impaired specimen is unlikely, and species occurs in habitat (underground) that makes detection difficult. However, the following level of take of this species can be anticipated by disturbance of 896.7 surface acres because this area represents the MCI subterranean habitat within 0.5 mile of the construction ROW centerline and ATWS that bisects Cochran’s Cave Conservation Site; and by disturbance of 11.2 surface acres because this subset of the 896.7 surface acres represents the MCI subterranean habitat disturbed by the construction ROW centerline and ATWS. The anticipated take is described in Table 8 below.

Table 8. MCI amount and type of anticipated incidental take.

Species	Amount of Take Anticipated	Life Stage when Take is Anticipated	Type of Take	Take is Anticipated as a Result of
MCI	All individuals present within 896.7 acres	All	Harm or Harass	Reduced reproduction associated with loss or alteration of foraging habitat from sediment introduced into flooded voids during construction.

MCI	Small percent of individuals present within 11.2 acres	All	Kill	Crushing or smothering during trenching or blasting during construction.
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Indiana bat – The Service anticipates incidental take of the Ibat will be difficult to detect for the following reasons: species has small body size, finding a dead or impaired specimen is unlikely, and species occurs in habitat (forest and caves) that makes detection difficult. However, the following level of take of this species can be anticipated by loss of 4,447.982 acres because this area contains suitable Ibat habitat. To account for differences in Ibat use of the habitat categories (suitable unoccupied and unknown use habitat vs. known use habitat), a multiplier of 0.5 was used to estimate Ibat use for suitable unoccupied summer habitat and unknown use spring staging/fall swarming habitat. The anticipated take is described in Table 9 below.

Table 9. Ibat amount and type of anticipated incidental take.

Species	Amount of Take Anticipated	Life Stage when Take is Anticipated	Type of Take	Take is Anticipated as a Result of
Ibat	Small percent of individuals present within 1,637.69 acres of suitable unoccupied summer habitat	Adults	Harm, Harass, Injure, or Kill	Reduced reproduction associated with loss or alteration of travel corridors; increased vulnerability to predation; and decreased habitat suitability for future roosting and foraging.
Ibat	Small percent of individuals present within 144.1 acres of known use summer habitat	Adults	Harass	Relocating roosting areas when returning the following season.
Ibat	Small percent of individuals present within 89.05 acres of unknown use spring staging/fall swarming habitat	Adults or pups	Harm, Harass, or Kill	Reduced pup viability associated with loss or alteration of spring staging and fall swarming habitat. Reduced overwinter survival associated with loss of fall swarming habitat. Temporary reduced reproduction associated with loss or alteration of fall swarming, spring staging habitat, and summer roosting/foraging habitat.
Ibat	Small percent of individuals present within 850.4 acres known use spring staging/fall swarming habitat	Adults	Harm, Harass, or Kill	Reduced pup viability associated with loss or alteration of spring staging and fall swarming habitat. Reduced overwinter survival associated with loss of fall swarming habitat. Temporary reduced reproduction associated with loss or alteration of spring staging, fall swarming habitat, and summer roosting/foraging habitat.

Northern long-eared bat – The majority of effects have been previously addressed in the Service’s January 5, 2016 programmatic biological opinion implementing the final 4(d) rule and any incidental take further than 0.25 mile from hibernacula PH-S018 is not prohibited under the

final 4(d) rule (50 CFR §17.40(o)). The Service anticipates incidental take of NLEB will be difficult to detect for the following reasons: species has small body size, finding a dead or impaired specimen is unlikely, and species occurs in habitat (forest and caves) that makes detection difficult. However, the following level of take of this species can be anticipated by the loss of 0.4 acres of habitat because this area is within 0.25 miles of hibernacula PH-S018. The anticipated take is described in Table 10 below.

Table 10. NLEB amount and type of anticipated incidental take.

Species	Amount of Take Anticipated	Life Stage when Take is Anticipated	Type of Take	Take is Anticipated as a Result of
NLEB	Small percent of individuals present within 0.4 acres	Adults	Harm or Harass	Reduced overwinter survival associated with loss of fall swarming habitat. Temporary reduced reproduction associated with loss or alteration of spring staging, fall swarming, and summer roosting/foraging habitat.

REASONABLE AND PRUDENT MEASURES

The Service believes the following reasonable and prudent measures are necessary and appropriate to minimize take:

Roanoke logperch –

- Provide information to individuals involved in project construction on how to avoid and minimize potential effects to the RLP.
- Conduct construction in a manner that minimizes disturbance to RLP.

Clubshell –

- Relocate clubshell.
- Provide information to individuals involved in project construction on how to avoid and minimize potential effects to the clubshell.
- Implement best management practices to protect water quality.

Rusty patched bumble bee –

- Minimize pre-construction vegetation clearing and ground disturbance.
- Use native species in restoration activities.
- Maintain suitable habitat within the permanent ROW.

Madison Cave isopod –

- Provide information to individuals involved in project construction on how to avoid and minimize potential effects to the MCI.

Indiana bat –

- Provide information to individuals involved in project construction on how to avoid and minimize potential effects to the Ibat.

Northern long-eared bat –

- The Service believes that all reasonable and prudent measures necessary and appropriate to minimize take of NLEB have been incorporated into the proposed action.

TERMS AND CONDITIONS

In order to be exempt from the prohibitions of Section 9 of the ESA, the FERC must comply with the following terms and conditions, which implement the reasonable and prudent measures described above and outline required reporting/monitoring requirements. These terms and conditions are nondiscretionary.

Roanoke logperch –

1. Prior to initiation of on-site work, notify all prospective employees, operators, and contractors about the presence and biology of the RLP, special provisions necessary to protect the RLP, activities that may affect the RLP, and ways to avoid and minimize these effects. This information can be obtained by reading RLP-related information in this Opinion or a fact sheet containing this information can be created and provided by FERC or the applicant.
2. No riprap will be placed below ordinary high water at any of the 4 crossings (Butterwood, Waqua, and Sturgeon Creeks and Nottoway River 1) where RLP is present/assumed present.
3. Construct cofferdams (Butterwood, Waqua, and Sturgeon Creeks and Nottoway River 1) using non-erodible materials. Remove cofferdams in their entirety upon project completion.
4. Fill any sandbags used in cofferdams with clean sand and no other materials. All sandbags must be new with no prior use and must be removed at the time of cofferdam removal.
5. Build cofferdams to a height, strength, and configuration to resist no less than normal peak daily flows. All construction must take place outside of the RLP TOYR.
6. Minimize instream (Butterwood, Waqua, and Sturgeon Creeks and Nottoway River 1) foot traffic during construction.
7. Vehicles or construction equipment may not enter Butterwood, Waqua, and Sturgeon Creeks and Nottoway River 1, except within cofferdams.
8. Inspect all vehicles for leaks immediately prior to instream or cofferdam work (Butterwood, Waqua, and Sturgeon Creeks and Nottoway River 1). Repair any leaks and clean construction vehicles thoroughly to remove any residual dirt, mud, debris, grease, motor oil, hydraulic fluid, coolant, or other hazardous substances from construction vehicles. Inspections, repairs, cleaning, and/or servicing will be conducted either before the vehicle, equipment, or machinery is transported into the field or at the work site within the staging area. All wash-water runoff and/or harmful materials will be appropriately controlled to prevent entry into the waterbody, including the riparian zone.

Clubshell –

1. One week prior to any construction activities, search the area 130 m downstream and 455 m upstream of Life's Run Bridge and collect all federally listed freshwater mussels. The search and collection will be conducted by a qualified surveyor(s) with a valid WVDNR

State Collecting Permit for these activities. The permitted surveyor(s) will take all federally listed mussels found to a Service-approved holding facility. These federally listed mussels will be held and propagated at the approved facility for reintroduction into the Monongahela River basin after project construction is completed. Contact the WV Field Office (WVFO) at elizabeth_stout@fws.gov regarding Service-approved facilities and reintroduction details.

2. Prior to initiation of on-site work, notify all prospective employees, operators, and contractors about the presence and biology of the clubshell, special provisions necessary to protect the clubshell, activities that may affect the clubshell, and ways to avoid and minimize these effects. This information can be obtained by reading clubshell-related information in this Opinion or a fact sheet containing this information can be created and provided by FERC or the applicant.
3. An EI will be onsite during construction activities within the Hackers Creek HUC-12 watershed between MP 14.7 and 21.1 and will have stop work authority. If compliance concerns are identified, the EI will resolve them.
4. Fuel and maintain vehicles or equipment and store all potentially toxic substances (fuels, paints, solvents, lubricants, etc.) within a containment site with adequate buffering (berms, vegetation, etc.) from any receiving waters of Hackers Creek.
5. Stabilize all disturbed sites and check that all erosion and sedimentation controls are properly installed and functioning within 24 hours of rain events along the construction ROW and access roads from MP 14.7 to 21.1.

Rusty patched bumble bee –

1. Minimize pre-construction clearing, grading, and vegetation removal within the HPZ.
2. Re-seed all construction ROW areas (temporary and permanent) within the HPZ and the dispersal zone with pollinator friendly native seed mixes consistent with recommendations for plant restoration by GWNF. Include species preferred by RPBB, list available at:
<https://www.fws.gov/midwest/endangered/insects/rpbb/pdf/PlantListRPBBJune2017.pdf>.
3. In the HPZ, plant disturbed areas adjacent to the improved access road with established (not seeds) native flowering shrub varieties that will bloom within 3 years. Plant the same native flowering shrub varieties present within the HPZ.
4. Maintain suitable habitat for RPBB within the permanent ROW through mowing once every 3 years, as well as woody vegetation removal and select application of herbicide at a rate sufficient to discourage growth of trees.

Madison Cave isopod –

1. Prior to initiation of on-site work, notify all prospective employees, operators, and contractors about the presence and biology of the MCI, special provisions necessary to protect the MCI, activities that may affect the MCI, and ways to avoid and minimize these effects. This information can be obtained by reading MCI-related information in this Opinion or a fact sheet containing this information can be created and provided by FERC or the applicant.

Indiana bat –

1. Prior to initiation of on-site work, notify all prospective employees, operators, and

contractors about the presence and biology of the Ibat, special provisions necessary to protect the Ibat, activities that may affect the Ibat, and ways to avoid and minimize these effects. This information can be obtained by reading Ibat-related information in this Opinion or a fact sheet containing this information can be created and provided by FERC or the applicant.

Northern long-eared bat –

No terms and conditions provided.

MONITORING AND REPORTING REQUIREMENTS

Care must be taken in handling any dead specimens of proposed or listed species to preserve biological material in the best possible state. In conjunction with the preservation of any dead specimens, the finder has the responsibility to ensure that evidence intrinsic to determining the cause of death of the specimen is not unnecessarily disturbed. The finding of dead specimens does not imply enforcement proceedings pursuant to the ESA. The reporting of dead specimens is required to enable the Service to determine if take is reached or exceeded and to ensure that the terms and conditions are appropriate and effective. Upon locating a dead specimen, notify the Service's VA Law Enforcement Office at 804-771-2883 and the Service's VA Field Office (VAFO) at the phone number provided below or at 804-693-6694.

Roanoke logperch –

1. Any high water event that disturbs the construction site, including failure or overtopping of cofferdams, must be reported to the Service at the contact phone number/email address below within 24 hours.
2. Any spills of motor oil, hydraulic fluid, coolant, or similar fluids, not contained before entry into the action area, must be reported to the Service at the contact number/email provided below and National Response Center (800-424-8802) immediately.
3. Conduct a RLP survey and habitat assessment at Butterwood, Waqua, and Sturgeon Creeks and Nottoway River 1 crossings 6 months after project is complete to assess the status of the RLP. Survey/habitat assessment will be conducted 200 m upstream and 800 m downstream of each crossing site by a qualified surveyor(s) with a valid VDGIF Permit for these activities. Provide a report containing raw data and summarized information from the surveys and habitat assessments at each site to the VAFO at sumalee_hoskin@fws.gov within 30 days of completion of the survey/habitat assessment.

Clubshell –

1. Notify the WVFO at elizabeth_stout@fws.gov 2 weeks prior to beginning freshwater mussel removal upstream and downstream of Life's Run Bridge. Provide a report documenting the removal effort to the WVFO at elizabeth_stout@fws.gov within 30 days of completion of the removal effort. Include the following in the report: surveyor names, protocols used for surveying, handling, and transporting mussels; total number of individuals of each mussel species collected; date collected; water and air temperatures; river stage; condition, size and approximate age of live clubshell; non-listed mussels; and maps or figures showing the collection area relative to project features.
2. Notify the WVFO at elizabeth_stout@fws.gov when work begins within the Hackers

Creek HUC-12 between MP 14.7 and 21.1.

3. If compliance concerns are identified by the EI regarding construction activities within the Hackers Creek HUC-12 between MP 14.7 and 21.1, the EI will report these activities to the WVFO at elizabeth_stout@fws.gov within 24 hours.
4. If erosion and sedimentation controls fail within the Hackers Creek HUC-12 between MP 14.7 and 21.1 as a result of a precipitation event, the WVFO should be notified within 24 hours at elizabeth_stout@fws.gov.
5. To monitor sedimentation effects on remaining clubshell, measure turbidity 150 m downstream of and 455 m upstream of Life's Run Bridge (County Route 14). Measure turbidity downstream and upstream of the mouth of 1 or more tributaries with crossings approximately 5 m downstream and 5 m upstream of the mouth. Measure turbidity continuously at least 1 month prior to construction, through the duration of construction activities, and 1 year post-construction or vegetation has become fully established, whichever happens last. Every 30 days, provide the last 30 days of raw data, and any summarized data, to the WVFO at elizabeth_stout@fws.gov.
6. Immediately report any unpermitted discharge of any potentially toxic substance to the WVFO at elizabeth_stout@fws.gov and WV Department of Environmental Protection (800-642-3074) upon discovery.

Rusty patched bumble bee –

1. Prior to initiation of vegetation clearing in the HPZ, provide the VAFO, at the email address below, the limits of equipment and vehicle traffic and staging and the methods to be used to ensure that traffic and staging will not exceed these limits.

Madison Cave isopod –

The Service believes that all monitoring and reporting has been incorporated into the proposed action.

Indiana bat –

1. Monitor Ibat activity around Star Chapel, Breathing Cave, and Clark's Cave to determine effects to I bats in the fall swarming/spring staging areas. Two weeks prior to the start of tree clearing place acoustic monitors outside the entrance of each cave. Monitors will remain in place until 2 hibernating seasons after construction. Provide a report including the raw acoustic data every year on January 30th to the VAFO at sumalee_hoskin@fws.gov.

Northern long-eared bat –

The Service believes that all monitoring and reporting has been incorporated into the proposed action.

CONSERVATION RECOMMENDATIONS

Section 7(a)(1) of the ESA directs federal agencies to utilize their authorities to further the purposes of the ESA by carrying out conservation programs for the benefit of endangered and threatened species. Conservation recommendations are discretionary agency activities to minimize or avoid adverse effects of a proposed action on listed species or critical habitat, to

help implement recovery plans, or to develop information.

Small whorled pogonia –

- Conduct 10 years of post-construction monitoring annually (i.e., monitor each colony 1 time each year) during optimal survey timeframes for SWP to assess each colony's status and any potential threats to its continued success. Monitor the Seneca and MNF SWP colonies and the 2 SWP colonies immediately outside the action area (second MNF colony, GWNF colony). Atlantic is working with WVDNR, USFS, and the Service to fund continuation of monitoring efforts beyond 1 year post-construction. We recommend FERC verify that a monitoring plan is developed and funded.
- To determine the effectiveness of temporary diversion channels and temporary berms within the construction workspace located near the SWP colonies, install equipment to continuously monitor soil moisture and temperature prior to, during, and after construction (e.g., until the end of the first growing season after restoration activities are completed). Conduct this monitoring at Seneca and MNF SWP colonies and at a reference site to establish baseline conditions and take into account local weather/seasonal variation.
- Monitor ambient light levels prior to, during, and after construction (e.g., until the end of the first growing season after restoration activities are completed) at the MNF SWP colony.
- Conduct surveys of suitable SWP habitat in the surrounding area of the Seneca and MNF SWP colonies and the 2 SWP colonies immediately outside the action area (second MNF colony, GWNF colony) to determine if additional colonies are present.

Running Buffalo clover –

- Monitor the 8 known RBC populations within and adjacent to the action area and conduct surveys to locate additional populations.
- Contribute towards seed storage efforts from selected locations, and develop management agreements that will remain in place if the species was delisted.

Roanoke logperch –

- Fund or conduct riparian and stream restoration throughout the RLP range, especially the Nottoway River drainage, to limit siltation and nutrient releases into receiving waterways.
- Fund or conduct projects to identify and remove manmade barriers to fish passage that will benefit RLP.

Clubshell –

- Provide funding to the WVDNR or other Service-approved facilities to support activities to determine captive husbandry techniques suitable for propagation and augmentation of clubshell populations within the Monongahela River system.

Rusty patched bumble bee –

- Improve pollinator habitat throughout the permanent ROW by using pollinator friendly native seed mixes. Include species preferred by RPBB, list available at: <https://www.fws.gov/midwest/endangered/insects/rpbb/pdf/PlantListRPBBJune2017.pdf>.

Madison Cave isopod –

- Fund VDCR-DNH or other qualified and permitted entity to conduct research to improve knowledge of MCI basic biology and connectivity between documented locations.

Indiana bat –

- Fund research on understanding/controlling and mitigating the effects of WNS.
- Fund research to improve knowledge of Ibat use of suitable habitat in WV and VA.
- Plant native trees with exfoliating bark in the temporary construction ROW to replace those that were cleared. Contact VAFO (sumalee_hoskin@fws.gov) and WVFO (elizabeth_stout@fws.gov) for area-specific recommendations.
- Purchase or otherwise protect additional Ibat habitat, particularly known use summer habitat and known use spring staging/fall swarming habitat.

Northern long-eared bat –

- Fund research on understanding/controlling and mitigating the effects of WNS.

For the Service to be kept informed of actions minimizing or avoiding adverse effects or benefitting listed species or their habitats, the Service requests notification of the implementation of any conservation recommendations.

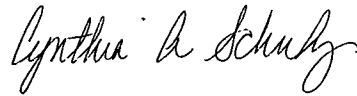
REINITIATION NOTICE

This concludes formal consultation on the action outlined in the request. As provided in 50 CFR 402.16, reinitiation of formal consultation is required where discretionary federal agency involvement or control over the action has been retained (or is authorized by law) and if: (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this Opinion; (3) the agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not considered in this Opinion; or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must cease pending reinitiation.

Any modifications to the proposed action made since the issuance of the FEIS (FERC 2017) were not considered as part of this Opinion. The Service strongly recommends that any changes or modifications to the various construction and restoration plans listed in table 2.3.1-1 of the FEIS be summarized and provided to the Service to ensure reinitiation is not necessary prior to commencing work.

If you have any questions regarding this Opinion or our shared responsibilities under the ESA, please contact Troy Andersen of this office at (804) 824-2428 or via email at Troy_Andersen@fws.gov.

Sincerely,



Cindy Schulz
Field Supervisor
Virginia Ecological Services

Enclosures

cc: Corps, Norfolk, VA (Attn: William Walker)
DOI, Washington, DC (Attn: Erika Vaughan)
FERC, Washington, DC (Attn: Kevin Bowman)
Service, Elkins, WV (Attn: John Schmidt)
Service, Raleigh, NC (Attn: Tom Augspurger)
Service, State College, PA (Attn: Lora Lattanzi)
USFS, Atlanta, GA (Attn: Timothy Abing)
USFS, Elkins, WV (Attn: Kent Karriker)
USFS, Roanoke, VA (Attn: Jennifer Adams)
NCWRC, Raleigh, NC (Attn: Shannon Deaton)
VDACS, Richmond, VA (Attn: Keith Tignor)
VDGIF, Richmond, VA (Attn: Amy Ewing)
VDCR-DNH, Richmond, VA (Attn: Rene Hypes)
WVDNR, Elkins, WV (Attn: Cliff Brown)
ACP, Richmond, VA (Attn: Spencer Trichell)

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Status of the Species

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N/A

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NLEB

N/A

Appendix A.

CONSULTATION HISTORY

- 09-04-14 The Service and Dominion Resources Services, Inc. (DRSI) met to discuss ACP in NC.
- 09-15-14 The Service received a letter from DRSI initiating early Section 7 coordination and requesting technical assistance for ACP in VA.
- 11-21-14 The Service received a letter from DRSI providing notification of pre-filing to FERC regarding ACP.
- 12-09-14 The Service submitted a letter to DRSI providing initial recommendations on ACP in WV.
- 01-23-15 The Service submitted a letter to DRSI providing initial recommendations on ACP in VA.
- 02-04-15 The Service participated in a site visit to see examples of existing gas pipeline crossings of waterbodies in NC.
- 03-25-15 The Service submitted a letter to DRSI providing initial recommendations on ACP in NC.
- 05-21-15 The Service, WVDNR, USFS, The Nature Conservancy, DRSI, and Natural Resource Group, LLC (NRG) met to discuss ACP alternatives analysis in WV.
- 07-07-15 The Service, WVDNR, USFS, DRSI, and NRG met to discuss the alternatives assessment and to participate in a helicopter flyover of proposed alternative routes for ACP in WV.
- 09-17-15 The Service received a letter from DRSI providing information about ACP and SHP and requesting a meeting.
- 10-02-15 The Service received a letter from Atlantic providing notification of certification application to FERC for ACP.
- 10-26-15 The Service and DRSI met to discuss ACP and SHP, FERC application, and development of a biological assessment (BA).
- 12-01-15 The Service and DRSI met to discuss bat survey results and current project status for ACP in NC.
- 12-17-15 The Service, DRSI, and NRG met to discuss 2015 survey results and project schedule in WV.

- 01-07-16 The Service submitted a letter to FERC providing further recommendations on ACP in WV.
- 01-28-16 The Service submitted a letter to DRSI accepting their bat survey results for SHP and made a NLAA determination for the Indiana and northern long-eared bats in PA.
- 02-22-16 The Service received a letter from DRSI requesting Section 7 review and technical assistance for the GWNF-6 alternative route of ACP in VA.
- 02-25-16 The Service and DRSI met to discuss freshwater mussels and other aquatic species survey study plan and current project status for ACP in NC.
- 03-02-16 The Service received a letter from DRSI submitting the draft BA for ACP and SHP.
- 05-02-16 The Service submitted a letter to FERC providing comments on the draft BA for ACP.
- 06-02-16 The Service submitted a letter to FERC providing clarification and recommendations regarding ACP and upcoming field season and bats, aquatic species, and migratory birds.
- 06-04-16 The Service and DRSI met to discuss sensitive waterbody crossings by ACP in NC.
- 08-16-16 The Service received a letter from DRSI providing a revised draft BA for ACP and SHP.
- 11-02-16 DRSI submitted the revised BA to the Service.
- 11-07-16 The Service and FERC met to discuss SHP, ACP, and development of the Draft Environmental Impact Statement (DEIS).
- 11-22-16 The Service, DRSI, and ERM met to discuss survey results and current project status in WV.
- 11-29-16 The Service, DRSI, ERM, and U.S. Army Corps of Engineers met to discuss ACP and SHP.
- 12-30-16 The Service received the FERC's DEIS via the electronic docket.
- 01-31-17 The Service submitted a letter to FERC outlining key ACP issues recommended for resolution prior to finalizing the BA.

- 02-24-17 The Service received a letter from DRSI providing response to Service's 1/31/17 letter.
- 03-02-17 The Service submitted a letter to FERC clarifying the Service's 1/31/17 letter.
- 03-21-17 to 03-22-17 The Service and FERC met to discuss SHP, ACP, and development of the FEIS.
- 03-29-17 The Service, DRSI, and ERM met to discuss comments on the BA.
- 03-30-17 The Service submitted a letter to FERC providing comments on the DEIS.
- 04-28-17 The Service received a letter from DRSI submitting the ACP RBC Conservation Plan in WV.
- 07-21-17 The Service received FERC's 7/21/17 request to initiate formal consultation and conference and FEIS.
- 07-26-17 The Service received a letter from DRSI submitting the ACP SWP Conservation Plan in WV and VA.
- 09-06-17 The Service submitted a letter to FERC initiating formal consultation.
- 09-15-17 The Service received a letter from DRSI submitting the RPBB Impact Analysis and Conservation Measures.
- 09-21-17 The Service received a letter from DRSI submitting the revised ACP SWP Conservation Plan in WV and VA.

Appendix B. Species-Specific Effects Tables.

Tables 1-8 are color coded as follows:

- NE rows are light green
- NLAA rows are light yellow
- LAA are light red

Table 1. Analysis of effects on Small whorled pogonia.

Project Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Vehicle Operation and Foot Traffic	physical impacts to individuals, habitat degradation	crushing, competition, collection, chemical contaminants	introduction of invasive species, poaching, exposure to chemicals from surface water runoff	NA	NA	NA	NA	NLAA	AMMs (e.g., Upland Erosion Control Plan, Restoration and Rehabilitation Plan, temporary diversion channels and berms in SWP Conservation Plan, Non-Native Invasive Plant Species Management Plan) will minimize potential effects from surface water runoff and competition from invasive plants in ROW. Cleared ROW may increase chances of poaching and attract ORV traffic due to increased ease of public access, potentially causing collection, crushing, and death. AMM of installing barriers such as signs, fences, gates, vegetation, or boulders along the ROW to discourage use of ORVs on ROW to avoid illegal access will minimize ORV effects.
New Disturbance - Construction	Clearing - herbaceous vegetation and ground cover	physical impacts to individuals, habitat degradation	soil compaction, altered hydrology, changes to evapotranspiration rates and soil moisture, downslope erosion, sedimentation, burial, competition	removal of vegetation in upslope drainage area, erosion, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	This subactivity in the pipeline construction ROW will affect 17.0 and 12.7%, respectively, of the Seneca and MNF colonies' upslope drainage areas. AMMs (e.g., Upland Erosion Control Plan, Restoration and Rehabilitation Plan, temporary diversion channels and berms in SWP Conservation Plan, Non-Native Invasive Plant Species Management Plan) will minimize potential effects from surface water runoff and competition from invasive plants in ROW. Soil compaction and clearing of vegetation in the upslope drainage area and diversion of surface water flow away from SWP colonies will alter the surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture of the SWP habitat downslope of the ROW. These stressors are likely to affect both the mycorrhizal fungi and SWP and cause decreased fitness and reproductive success and possibly death of SWP individuals.
New Disturbance - Construction	Clearing - trees and shrubs	physical impacts to individuals, habitat degradation	changes to sunlight regime, soil compaction, altered hydrology, increased soil temperature, changes to evapotranspiration rates and soil moisture, downslope erosion, sedimentation, burial, competition	removal of over- and mid-story vegetation in upslope drainage area, erosion, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	This subactivity in the pipeline construction ROW will affect 17.0 and 12.7%, respectively, of the Seneca and MNF colonies' upslope drainage areas. AMMs (e.g., Upland Erosion Control Plan, Restoration and Rehabilitation Plan, temporary diversion channels and berms in SWP Conservation Plan [SWPCP], Non-Native Invasive Plant Species Management Plan [NNIPSMP]) will minimize potential effects from surface water runoff and competition from invasive plants in ROW. Soil compaction and clearing of vegetation in the upslope drainage area and diversion of surface water flow away from SWP colonies will alter the surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture of the SWP habitat downslope of the ROW. These stressors are likely to affect both the mycorrhizal fungi and SWP and cause decreased fitness and reproductive success and possibly death of SWP individuals. Removal of mid- and over-story trees will also increase direct and ambient light, which may increase SWP flowering and population size; but beyond an unknown threshold, is anticipated to degrade the SWP habitat by increasing soil temperature, drying soils, and changing evapotranspiration rates, thereby affecting SWP as described above. ERM (2017) conducted qualitative analyses of the potential changes to light regime near each colony as a result of tree removal in the pipeline construction ROW using 3D computer modeling. For the Seneca colony, the simulations indicated significant increases in ambient and direct light on the ground and surrounding area during summer, spring, and fall days, although not quantified. For the MNF colony, the simulations indicated changes in ambient light on the ground and surrounding area during early morning on summer and fall days. This light analysis was conducted before the proposed pipeline route was moved 108 ft further from the MNF colony, but we continue to anticipate changes in light in surrounding area due to close proximity (221 ft) of the pipeline construction ROW. The NNIPSMP will not address herbaceous and invasive vegetation growing outside of the ROW and near the SWP colonies due to the increased light. Invasive species could compete with SWP for light, space, and nutrients, causing decreased fitness and reproductive success and possibly death of individual SWP. The SWPCP includes temporary AMMs to monitor the population status of the SWP colonies annually for 10 years post-construction and minimize effects from invasive species outside of the ROW and near the SWP colonies for 3 years (e.g., before, during, and 1 year after construction) (VHB 2017). Atlantic is working with the Service and USFS to fund the continuation of population monitoring efforts beyond 1-year post-construction. For the Seneca SWP colony, the SWPCP also includes planting native tree seedlings for 200 ft along the construction ROW edge to the west of the pipeline (e.g., farther from the colony) to ameliorate for changes in sunlight regime and monitoring light levels in the colony for 3 years (e.g., before, during, and 1 year after construction). Approximately 20-30 years after planting, canopy trees (e.g., white oak and eastern white pine found at the Seneca colony) are expected to provide some mid-story shade (Burns et al. 1990), which would contribute to partially restoring the SWP habitat. Based on the evaluation of ERM's (2017) wind analysis of potential changes to wind patterns and speed within a 1 km radius around each of the SWP colonies, we anticipate that changes in wind pattern and speed will be minimal, and are likely to be discountable or insignificant.
New Disturbance - Construction	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	habitat degradation	competition	spread of herbaceous and invasive plant species	NA	NA	NA	NA	NLAA	Methods described in the Non-Native Invasive Plant Species Management Plan will minimize impacts due to invasive species.
New Disturbance - Construction	Vegetation Disposal (upland) - brush pile burning	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Vegetation Clearing - tree side trimming by bucket truck or helicopter	physical impacts to individuals, habitat degradation	changes to sunlight regime, increased soil temperature, changes to evapotranspiration rates and soil moisture, competition	trimming of over- and mid-story vegetation in upslope drainage area, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Trimming of mid- and over-story trees will increase direct and ambient light, which may increase SWP flowering and population size. Beyond an unknown threshold, an increase in direct and ambient light is anticipated to degrade SWP habitat by increasing soil temperature, drying soils, and changing evapotranspiration rates, causing decreased fitness and reproductive success and possibly death of individuals. Methods described in the Non-Native Invasive Plant Species Management Plan will minimize impacts due to invasive species in the ROW, but not address herbaceous and invasive vegetation growing outside of ROW and near SWP colonies due to increased light. Invasive species could compete with SWP for light, space, and nutrients, causing decreased fitness and reproductive success and possibly death of individual SWP. The Small Whorled Pogonia Conservation Plan includes temporary AMMs to minimize effects from invasive species outside of the ROW and near the SWP colonies for 3 years (VHB 2017).
New Disturbance - Construction	Grading, erosion control devices	physical impacts to individuals, habitat degradation	soil compaction, altered hydrology, changes to soil moisture, downslope erosion, sedimentation, burial	grading in upslope drainage area, erosion	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	This subactivity in the pipeline construction ROW will affect 17.0 and 12.7%, respectively, of the Seneca and MNF colonies' upslope drainage areas. AMMs (e.g., Upland Erosion Control Plan, Restoration and Rehabilitation Plan, temporary diversion channels and berms in SWP Conservation Plan) will minimize potential effects from surface water runoff. Soil compaction and ground disturbance in the upslope drainage area and diversion of surface water flow away from SWP colonies will alter the surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture of the SWP habitat downslope of the ROW. These stressors are likely to affect both the mycorrhizal fungi and SWP and cause decreased fitness and reproductive success and possibly death of SWP individuals.

Table 1. Analysis of effects on Small whorled pogonia.

Project Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Trenching (digging, blasting, dewatering, open trench, sedimentation)	physical impacts to individuals, habitat degradation	crushing, altered hydrology, changes to soil moisture, downslope erosion, sedimentation, burial	trenching in upslope drainage area, erosion, movement of soil and larger material (e.g. boulders) when blasting	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	This subactivity in the pipeline construction ROW will affect 17.0 and 12.7%, respectively, of the Seneca and MNF colonies' upslope drainage areas. AMMs (e.g., Upland Erosion Control Plan, Restoration and Rehabilitation Plan, temporary diversion channels and berms in SWP Conservation Plan) will minimize potential effects from surface water runoff. Ground disturbance in the upslope drainage area and diversion of surface water flow away from SWP colonies will alter the surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture of the SWP habitat downslope of the ROW. These stressors are likely to affect both the mycorrhizal fungi and SWP and cause decreased fitness and reproductive success and possibly death of SWP individuals. Blasting may also loosen large rocks, which could fall and crush SWP.
New Disturbance - Construction	Pipe Stringing - bending, welding, coating, padding and backfilling	neutral	none	NA	NA	NA	NA	NA	NE	No impacts to SWP habitat are anticipated from this action.
New Disturbance - Construction	Hydrostatic Testing (water withdrawal and discharge)	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Regrading and Stabilization - restoration of corridor	physical impacts to individuals, habitat degradation	soil compaction, altered hydrology, changes to soil moisture, downslope erosion, sedimentation, burial, competition, increased nutrients, chemical contaminants	regrading in upslope drainage area, erosion, spread of herbaceous and invasive plant species, exposure to nutrients from surface water runoff (fertilizers, decomposed vegetation), exposure to chemicals from surface water runoff and wind	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	This subactivity in the pipeline construction ROW will affect 17.0 and 12.7%, respectively, of the Seneca and MNF colonies' upslope drainage areas. AMMs (e.g., Upland Erosion Control Plan, Restoration and Rehabilitation Plan, temporary diversion channels and berms in SWP Conservation Plan, Non-Native Invasive Plant Species Management Plan [NNIPSPM]) will minimize potential effects from surface water runoff, soil compaction, and competition from invasive plants in ROW. Ground disturbance in the upslope drainage area and diversion of surface water flow away from SWP colonies will alter the surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture of the SWP habitat downslope of the ROW. These stressors are likely to affect both the mycorrhizal fungi and SWP and cause decreased fitness and reproductive success and possibly death of SWP individuals. For controlling invasive plants, hand application methods will be used along the ROW and no herbicides will be applied within 25 ft of federally listed plant species unless approved by the Service or USFS. In addition, SWP are located at least 70 ft from the ROW and therefore are not likely to be exposed to herbicides.
New Disturbance - Construction	Compression Facility, noise	neutral	none	NA	NA	NA	NA	NA	NE	Facilities do not occur within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Communication Facility - guy lines, noise, lights	neutral	none	NA	NA	NA	NA	NA	NE	Facilities do not occur within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - grading, graveling	neutral	none	NA	NA	NA	NA	NA	NE	No temporary or permanent access roads proposed near SWP colonies.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - culvert installation	neutral	none	NA	NA	NA	NA	NA	NE	No temporary or permanent access roads proposed near SWP colonies.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - tree trimming and tree removal	neutral	none	NA	NA	NA	NA	NA	NE	No temporary or permanent access roads proposed near SWP colonies.
New Disturbance - Construction	Stream Crossings, wet open cut ditch	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
New Disturbance - Construction	Stream Crossings, flume	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
New Disturbance - Construction	Stream Crossings, dam & pump	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
New Disturbance - Construction	Stream Crossings, cofferdam	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
New Disturbance - Construction	Stream Crossings, Horizontal Directional Drill (HDD)	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
New Disturbance - Construction	Stream Crossings, conventional bore	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
New Disturbance - Construction	Stream Crossings, direct pipe	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
New Disturbance - Construction	Stream Equipment Crossing Structures	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - clearing	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - tree side trimming	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - grading, trenching, regrading	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - pipe stringing	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - HDD	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - conventional bore	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
Operation & Maintenance	Facilities - vehicles, foot traffic, noise, communication facilities	neutral	none	NA	NA	NA	NA	NA	NE	Facilities do not occur within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
Operation & Maintenance	Vegetation Management - mowing	physical impacts to individuals, habitat degradation	soil compaction, altered hydrology, changes to evapotranspiration rates and soil moisture, downslope erosion, burial, competition	removal of vegetation in upslope drainage area, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	This subactivity in the pipeline permanent ROW will affect 17.0 and 1.1%, respectively, of the Seneca and MNF colonies' upslope drainage areas. Soil compaction and removal of vegetation in the upslope drainage area will increase surface water flow and downslope erosion rates and alter surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture in SWP habitat downslope of the ROW. These stressors are likely to affect both the mycorrhizal fungi and SWP and cause decreased fitness and reproductive success and possibly death of SWP individuals. Methods described in the Non-Native Invasive Plant Species Management Plan will minimize impacts due to invasive species.

Table 1. Analysis of effects on Small whorled pogonia.

Project Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
Operation & Maintenance	Vegetation Management - chainsaw and tree clearing	physical impacts to individuals, habitat degradation	changes to sunlight regime, soil compaction, altered hydrology, increased soil temperature, changes to evapotranspiration rates and soil moisture, downslope erosion, burial, competition	removal of over- and mid-story vegetation in upslope drainage area, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	This subactivity in the pipeline permanent ROW will affect 17.0 and 1.1%, respectively, of the Seneca and MNF colonies' upslope drainage areas. Soil compaction and removal of vegetation in the upslope drainage area will increase surface water flow and downslope erosion rates and alter surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture in SWP habitat downslope of the ROW. These stressors are likely to affect both the mycorrhizal fungi and SWP and cause decreased fitness and reproductive success and possibly death of SWP individuals. This subactivity will also redistribute and loosen soils, which will cause sedimentation downslope towards the colonies. Depending on the degree of surface water runoff and sedimentation, SWP habitat may be degraded and individual stems may be buried. Removal of mid- and over-story trees will also increase direct and ambient light, which may increase SWP flowering and population size, but beyond an unknown threshold, is anticipated to degrade the SWP habitat by increasing soil temperature, drying soils, and changing evapotranspiration rates, causing decreased fitness and reproductive success and possibly death of individual SWP. Methods described in the Non-Native Invasive Plant Species Management Plan will minimize impacts due to invasive species in the ROW, but not address herbaceous and invasive vegetation growing outside of the ROW and near the SWP colonies due to the increased light. Invasive species could compete with SWP for light, space, and nutrients, causing decreased fitness and reproductive success and possibly death of individual SWP. The SWP Conservation Plan includes temporary AMMs to monitor the population status of the SWP colonies annually for 10 years post-construction and to minimize effects from invasive species outside of the ROW and near the SWP colonies for 3 years (e.g., before, during, and 1 year after construction) (VHB 2017). Atlantic is working with the Service and USFS to fund the continuation of population monitoring efforts beyond 1 year post-construction.
Operation & Maintenance	Vegetation Management - herbicides - hand, vehicle mounted, aerial applications	physical impacts to individuals, habitat alteration	chemical contaminants	exposure to chemicals from surface water runoff and wind	NA	NA	NA	NA	NLAA	Hand application methods will be used along the ROW and no herbicides will be applied within 25 ft of federally listed plant species unless approved by the Service or USFS. In addition, SWP are located at least 70 ft from the ROW and therefore are not likely to be exposed to herbicides. The SWP Conservation Plan also includes AMMs to minimize herbicide exposure by prohibiting herbicide use within 60 ft of SWP colonies and only using handpulling within this area (VHB 2017).
Operation & Maintenance	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	habitat degradation	competition	spread of herbaceous and invasive plant species	NA	NA	NA	NA	NLAA	Methods described in the Non-Native Invasive Plant Species Management Plan will minimize impacts due to invasive species.
Operation & Maintenance	Vegetation Disposal (upland) - brush pile burning	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
Operation & Maintenance	Vegetation Management - tree side trimming by bucket truck or helicopter	habitat degradation	changes to sunlight regime, increased soil temperature, changes to evapotranspiration rates and soil moisture, competition	trimming of over- and mid-story vegetation in upslope drainage area, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Trimming of mid- and over-story trees will increase direct and ambient light, which may increase SWP flowering and population size. Beyond an unknown threshold, an increase in direct and ambient light is anticipated to degrade SWP habitat by increasing soil temperature, drying soils, and changing evapotranspiration rates, causing decreased fitness and reproductive success and possibly death of individuals. Methods described in the Non-Native Invasive Plant Species Management Plan will minimize impacts due to invasive species in the ROW, but not address herbaceous and invasive vegetation growing outside of ROW and near SWP colonies due to increased light. Invasive species could compete with SWP for light, space, and nutrients, causing decreased fitness and reproductive success and possibly death of individual SWP. The SWP Conservation Plan includes temporary AMMs to minimize effects from invasive species outside of the ROW and near the SWP colonies for 3 years (e.g., before, during, and 1 year after construction) (VHB 2017).
Operation & Maintenance	ROW repair, regrading, revegetation (upland) - hand, mechanical	physical impacts to individuals, habitat degradation	soil compaction, altered hydrology, changes to soil moisture, downslope erosion, burial, sedimentation	regrading in upslope drainage area, erosion	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	This subactivity in the pipeline permanent ROW will affect 17.0 and 1.1%, respectively, of the Seneca and MNF colonies' upslope drainage areas. Soil compaction and ground disturbance will increase surface water flow and downslope erosion rates and alter surface and subsurface hydrology in the watershed of the colonies, causing changes in evapotranspiration rates and soil moisture in SWP habitat downslope of the ROW. These stressors are likely to affect both the mycorrhizal fungi and SWP and cause decreased fitness and reproductive success and possibly death of SWP individuals. This subactivity will also redistribute and loosen soils, which will cause sedimentation downslope towards the colonies. Depending on the degree of surface water runoff and sedimentation, SWP habitat may be degraded and individual stems may be buried.
Operation & Maintenance	ROW repair, regrading, revegetation (wetland) - hand, mechanical	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
Operation & Maintenance	ROW repair, regrading, revegetation - instream stabilization and/or fill	neutral	none	NA	NA	NA	NA	NA	NE	SWP is not an aquatic species and not found in streams and wetland areas.
Operation & Maintenance	Access Road Maintenance - grading, graveling	neutral	none	NA	NA	NA	NA	NA	NE	No temporary or permanent access roads proposed near SWP colonies.
Operation & Maintenance	Access Road Maintenance - culvert replacement	neutral	none	NA	NA	NA	NA	NA	NE	No temporary or permanent access roads proposed near SWP colonies.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - Off ROW Clearing	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - trenching, anode, bell hole	neutral	none	NA	NA	NA	NA	NA	NE	Activity not proposed within the upslope drainage area and 100-ft buffer downslope of SWP colonies.
Operation & Maintenance	Inspection Activities - ground and aerial	neutral	none	NA	NA	NA	NA	NA	NE	No impacts to SWP habitat are anticipated from this action.

Table 2. Analysis of effects on RBC.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (up/fund)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Vehicle Operation and Foot Traffic	physical impacts to individuals, habitat degradation	crushing	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
New Disturbance - Construction	Clearing - herbaceous vegetation and ground cover	physical impacts to individuals, habitat alteration and degradation	crushing	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
New Disturbance - Construction	Clearing - trees and shrubs	habitat alteration/degradation	crushing, changes in sunlight exposure	removal of overstory vegetation, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will remove all canopy cover over the construction ROW and significantly reduce canopy cover over access roads. Will create too much sunlight for RBC, which prefers partial to filtered sunlight.
New Disturbance - Construction	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	physical impacts to individuals, habitat alteration and degradation	crushing	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
New Disturbance - Construction	Vegetation Disposal (upland) - brush pile burning	habitat alteration/degradation	burning	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	The plant structure is above ground and plants exposed to fire are likely to be killed. Additionally, topsoil containing RBC plant material and seed source is likely to be submerged in ash piles, restricting further plant growth and recolonization.
New Disturbance - Construction	Vegetation Clearing - tree side trimming by bucket truck or helicopter	habitat alteration/degradation	changes in sunlight exposure	removal of overstory vegetation, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will remove all canopy cover over the construction ROW and significantly reduce canopy cover over access roads. Will create too much sunlight for RBC, which prefers partial to filtered sunlight.
New Disturbance - Construction	Grading, erosion control devices	physical impacts to individuals, habitat alteration and degradation	crushing	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
New Disturbance - Construction	Trenching (digging, blasting, dewatering, open trench, sedimentation)	physical impacts to individuals, habitat alteration and degradation	crushing	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
New Disturbance - Construction	Pipe Stringing - bending, welding, coating, padding and backfilling	NA	NA	NA	NA	NA	NA	NA	NE	This activity will occur in areas that have already been disturbed and will not effect RBC
New Disturbance - Construction	Hydrostatic Testing (water withdrawal and discharge)	NA	NA	NA	NA	NA	NA	NA	NE	No impact from hydrostatic testing
New Disturbance - Construction	Regrading and Stabilization - restoration of corridor	NA	NA	NA	NA	NA	NA	NA	NE	This activity will occur in areas that have already been disturbed and will not effect RBC
New Disturbance - Construction	Compression Facility, noise	NA	NA	NA	NA	NA	NA	NA	NE	No impact from noise
New Disturbance - Construction	Communication Facility - guy lines, noise, lights	NA	NA	NA	NA	NA	NA	NA	NE	No impact from guy lines, noise, lights.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - grading, graveling	physical impacts to individuals, habitat alteration and degradation	crushing, changes in hydrology, contaminants	soil compaction, habitat destruction	individuals, habitat	mortality	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.

Table 2. Analysis of effects on RBC.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Construction Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - culvert installation	physical impacts to individuals, habitat alteration and degradation	crushing, changes in hydrology, contaminants	soil compaction, habitat destruction	individuals, habitat	mortality	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - tree trimming and tree removal	habitat alteration/degradation	changes in sunlight exposure	soil compaction, habitat destruction	individuals, habitat	mortality	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will remove all canopy cover over the construction ROW and significantly reduce canopy cover over access roads. Will create too much sunlight for RBC, which prefers partial to filtered sunlight.
New Disturbance - Construction	Stream Crossings, wet ditch	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Stream Crossings, flume	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Stream Crossings, dam & pump	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Stream Crossings, cofferdam	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Stream Crossings, Horizontal Directional Drill (HDD)	NA	NA	NA	NA	NA	NA	NA	NE	HDD will not be used in WV where RBC occurs
New Disturbance - Construction	Stream Crossings, conventional bore	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Stream Crossings, direct pipe	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Stream Equipment Crossing Structures	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - clearing	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - tree side trimming	NA	NA	NA	NA	NA	NA	NA	NE	no impacts from tree trimming.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - grading, trenching, regrading	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - pipe stringing	NA	NA	NA	NA	NA	NA	NA	NE	no impacts from pipe stringing component of activity
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - HDD	NA	NA	NA	NA	NA	NA	NA	NE	HDD will not be used in WV where RBC occurs
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - conventional bore	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
Operation & Maintenance	Facilities - vehicles, foot traffic, noise, communication facilities	NA	NA	NA	NA	NA	NA	NA	NE	Facilities do not occur near RBC.
Operation & Maintenance	Vegetation Management - mowing	NA	NA	NA	NA	NA	NA	NA	NE	Mowing will occur in areas not suitable for RBC
Operation & Maintenance	Vegetation Management - chainsaw and tree clearing	physical impacts to individuals, habitat alteration	changes to sunlight regime, downslope erosion, competition	removal of overstory vegetation, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will remove all canopy cover over the construction ROW and significantly reduce canopy cover over access roads. Will create too much sunlight for RBC, which prefers partial to filtered sunlight.
Operation & Maintenance	Vegetation Management - herbicides - hand, vehicle mounted, aerial applications	physical impacts to individuals	chemical contaminants	exposure to chemicals from stormwater runoff and wind	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	NLAA	AMMs in place that will limit spraying of herbicides for invasive species management within 25-foot listed species unless FWS and FS are notified

Table 2. Analysis of effects on RBC.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
Operation & Maintenance	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	physical impacts to individuals, habitat alteration and degradation	crushing	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
Operation & Maintenance	Vegetation Disposal (upland) - brush pile burning	NA	NA	NA	NA	NA	NA	NA	NE	Burning will occur in areas not suitable for RBC (only in the ROW)
Operation & Maintenance	Vegetation Management - tree side trimming by bucket truck or helicopter	habitat alteration	changes to sunlight, competition	removal of overstory vegetation, spread of herbaceous and invasive plant species	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will remove all canopy cover over the construction ROW and significantly reduce canopy cover over access roads. Will create too much sunlight for RBC, which prefers partial to filtered sunlight.
Operation & Maintenance	ROW repair, regrading, revegetation (upland) - hand, mechanical	physical impacts to individuals	crushing	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
Operation & Maintenance	ROW repair, regrading, revegetation (wetland) - hand, mechanical	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in wetland areas
Operation & Maintenance	ROW repair, regrading, revegetation - in stream stabilization and/or fill	NA	NA	NA	NA	NA	NA	NA	NE	RBC does not occur in riparian zones
Operation & Maintenance	Access Road Maintenance - grading, graveling	physical impacts to individuals, habitat alteration and degradation	crushing, chemical contaminants	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
Operation & Maintenance	Access Road Maintenance - culvert replacement	physical impacts to individuals, habitat alteration and degradation	crushing, chemical contaminants	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - Off ROW Clearing	habitat alteration	crushing	soil compaction, habitat destruction	habitat, population, individuals	injury, death	reproduction, nutrition, habitat	numbers, reproduction	LAA	Will kill RBC plants and seeds. Conducting these activities in wet conditions will increase soil compaction, which may restrict seed germination preventing reestablishment of RBC in the temporary construction ROW post-construction.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - trenching, anode, bell hole	NA	NA	NA	NA	NA	NA	NA	NE	These activities will occur in areas not suitable for RBC
Operation & Maintenance	Inspection Activities - ground and aerial	NA	NA	NA	NA	NA	NA	NA	NLAA	Aerial will have no effect; ground inspection foot traffic could pass over RBC populations but would not adversely affect the species because these inspections are periodic in nature which the species is accustomed to and can benefit from

Table 3. Analysis of effects on RLP.

Riparian Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Vehicle Operation and Foot Traffic	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action. Will not introduce sediment or contaminants into the streams or rivers.
New Disturbance - Construction	Clearing - herbaceous vegetation and ground cover	Habitat degradation and water quality degradation, Stress on individuals, Reduction in prey population	Sedimentation, Increase in Water Temperatures, Decrease of dissolved oxygen	denuding bank, grubbing with heavy equipment, disturbing soil, water quality degradation since vegetation no longer provides stormwater filter or shade to stream	Discountable	NA	NA	NA	NLAA	Temperature increases from herbaceous vegetation removal would be slight. ACP will implement AMMs to minimize sedimentation (e.g. compost filter sock w/in 300ft of ESA sensitive waterbodies and priority 1 belted silt retention fence and inspect on a daily basis).
New Disturbance - Construction	Clearing - trees and shrubs	Habitat degradation and water quality degradation, Stress on individuals, Reduction in prey population	Sedimentation, Increase in Water Temperatures, Decrease of dissolved oxygen	denuding bank, grubbing with heavy equipment, disturbing soil, water quality degradation since vegetation no longer provides shade to stream	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Moderately silted and high turbidity areas will be unusable to RLP for foraging and spawning in the immediate vicinity of the crossing. Heavy siltation is also anticipated to result in a loss of prey items. Loss of streambank vegetation is expected to result in increased water temperatures and changes in light regime in small areas. Changes in water temperature and light regime may affect the RLP prey base and make the habitat less suitable for the RLP themselves.
New Disturbance - Construction	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action. Will not introduce sediment or contaminants into the streams or rivers.
New Disturbance - Construction	Vegetation Disposal (upland) - brush pile burning	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action. Will not introduce sediment or contaminants into the streams or rivers.
New Disturbance - Construction	Vegetation Clearing - tree side trimming by bucket truck or helicopter	Habitat degradation and water quality degradation, Stress on eggs	Increase in Water Temperatures, Decrease of dissolved oxygen	habitat and water quality degradation since vegetation no longer provides shade to stream	Unlikely	NA	NA	NA	NLAA	Temperature increases from herbaceous vegetation removal would be slight. ACP is narrowing their construction ROW at waterbody crossings to 75ft to minimize clearing of trees and riparian vegetation. Post construction ACP will maintain a 10ft wide ROW, which will further lessen impacts from vegetation removal.
New Disturbance - Construction	Grading, erosion control devices	Temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation	storm water erosion	Unlikely	NA	NA	NA	NLAA	ACP will implement AMMs to minimize sedimentation (e.g. compost filter sock w/in 300ft of ESA sensitive waterbodies and priority 1 belted silt retention fence and inspect on a daily basis).
New Disturbance - Construction	Trenching (digging, blasting, dewatering, open trench, sedimentation)	Temporary loss of habitat, Water quality degradation, Physical impacts, Reduction of prey population	Sedimentation, Short-term altered flow, Contaminants	near, in-stream, and tributary earth disturbance may result in increased sedimentation, altered flow result in increased sedimentation and short-term impoundment, contaminant spills from equipment located in-stream and tributary, noise from in water work	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Cofferdams will be used to trench across waterbodies. Installation and dewatering of cofferdams is anticipated to injure or kill some RLP by crushing individuals during placement of cofferdams and through stranding or entrapment as cofferdams are dewatered. Moderately silted and high turbidity areas will be unusable to RLP for foraging and spawning in the immediate vicinity of the crossing. Heavy siltation is also anticipated to result in a loss of prey items. If blasting is needed for any crossings, RLP in the immediate blast area may be killed and RLP in the vicinity will be temporarily stunned and/or permanently injured. Installation and dewatering of cofferdams may injure or kill RLP by crushing individuals during placement of cofferdams and through stranding or entrapment as cofferdams are dewatered.

Table 3. Analysis of effects on RLP.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Pipe Stringing - bending, welding, coating, padding and backfilling	Temporary loss of habitat, Water quality degradation, Physical impacts, Reduction of prey population	Sedimentation, Short-term altered flow, Contaminants	near, in-stream, and tributary earth disturbance may result in increased sedimentation, altered flow result in increased sedimentation and short-term impoundment, contaminant spills from equipment located in-stream and tributary, noise from in-water work	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Moderately silted and high turbidity areas will be unusable to RLP for foraging and spawning in the immediate vicinity of the crossing. Heavy siltation is also anticipated to result in a loss of prey items.
New Disturbance - Construction	Hydrostatic Testing (water withdrawal and discharge)	Temporary loss of habitat, Habitat degradation	Minor sedimentation, Altered flow	Withdrawal and discharge of water	Discountable	NA	NA	NA	NLAA	ACP will use municipal water sources rather than withdraw water at the RLP crossings. ACP will not discharge into ESA sensitive waterbodies, and will discharge in upland areas a minimum of 300 ft from ESA sensitive water bodies.
New Disturbance - Construction	Regrading and Stabilization - restoration of corridor	Permanent or temporary loss of habitat, Habitat degradation, Water quality degradation, Physical impacts to individuals, Reduction of prey	Minor sedimentation, Loss of prey, Contaminants	tributary and/or near stream earth disturbance can cause minor increase in sedimentation, Storm water runoff, fertilizers used in revegetation can cause algae blooms which will lower dissolved oxygen.	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Any ground disturbance that may result in sedimentation in habitat where RLP presence is assumed is considered LAA. Moderately silted and high turbidity areas will be unusable to RLP for foraging and spawning in the immediate vicinity of the crossing. Heavy siltation is also anticipated to result in a loss of prey items.
New Disturbance - Construction	Compression Facility, noise	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action. Will not introduce sediment or contaminants into the streams or rivers.
New Disturbance - Construction	Communication Facility - guy lines, noise, lights	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action. Will not introduce sediment or contaminants into the streams or rivers.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - grading, graveling	Temporary loss of habitat, Water quality degradation, Physical impacts, Reduction of prey population	Sedimentation, Short-term altered flow, Contaminants, Loss of prey, Disruption of spawning, Crushing or removal of eggs	near, in-stream, and tributary earth disturbance may result in increased sedimentation, altered flow result in increased sedimentation and short-term impoundment, contaminant spills from equipment located in-stream and tributary, noise from in-water work	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction	LAA	Adjacent upland ground-disturbing activities such as grading and constructing/improving access roads may introduce sediment into RLP habitat. Moderately silted and high turbidity areas will be unusable to RLP for foraging and spawning in the immediate vicinity of the crossing. Heavy siltation is also anticipated to result in a loss of prey items. If instream work occurs during spawning, RLP will be unable to successfully spawn in these areas. If work occurs after completion of spawning, crushing or removal of eggs is likely to occur.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - culvert installation	Permanent or temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation, Contaminants, Altered flow,	tributary and instream earth disturbance can cause increase in sedimentation and turbidity, Equipment located in stream or tributary can increase chance of spills, altered flow velocities and temporary impoundment from in-water work, minor noise from construction activities in water, water work, minor	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Sediment introduction into RLP habitat. Moderately silted and high turbidity areas will be unusable to RLP for foraging and spawning in the immediate vicinity of the crossing. Heavy siltation is also anticipated to result in a loss of prey items. If instream work occurs during spawning, RLP will be unable to successfully spawn in these areas. If work occurs after completion of spawning, crushing or removal of eggs is likely to occur.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - tree trimming and tree removal	Habitat degradation and water quality degradation, Stress on individuals, Reduction in prey population	Sedimentation, Increase in Water Temperatures, Decrease of dissolved oxygen	denuding bank, grubbing with heavy equipment, disturbing soil, water quality degradation since vegetation no longer provides shade to stream	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Loss of streambank vegetation is expected to result in increased water temperatures and changes in light regime in small areas. Changes in water temperature and light regime may affect the RLP prey base and make the habitat less suitable for the RLP themselves.

Table 3. Analysis of effects on RLP.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Stream Crossings, wet open cut ditch	Permanent or temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation, Contaminants, Altered flow	tributary and instream earth disturbance can cause increase in sedimentation and turbidity, Equipment located in stream or tributary can increase chance of spills, altered flow velocities and temporary impoundment from in-water work, minor noise from construction activities in water, water work, minor	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	NE	This is not proposed as a crossing method at the 4 RLP crossings (FEIS pg 4-288).
New Disturbance - Construction	Stream Crossings, flume	Permanent or temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation, Contaminants, Altered flow	tributary and instream earth disturbance can cause increase in sedimentation and turbidity, Equipment located in stream or tributary can increase chance of spills, altered flow velocities and temporary impoundment from in-water work, minor noise from construction activities in water, water work, minor	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	NE	This is not proposed as a crossing method at the 4 RLP crossings (FEIS pg 4-288).
New Disturbance - Construction	Stream Crossings, dam & pump	Temporary loss of occupied habitat, Physical impacts to individuals, Habitat degradation and water quality degradation, reduction of prey population	Sedimentation, Altered flow, Contaminants, Impoundment	tributary and near stream earth disturbance may result in increased sedimentation altered flow may result in increased sedimentation, contaminant spills from equipment located in tributary stream, dam could restrict up/down stream movement of species, noise from in water work	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Temporary loss of instream habitat will occur at stream crossings. Instream activities will temporarily re-suspend sediments and increase turbidity. We expect RLP will avoid these areas until the instream structures are removed and turbidity returns to baseline levels. If instream work occurs during spawning, RLP will be unable to successfully spawn in these areas. If work occurs after completion of spawning, crushing or removal of eggs is likely to occur. Implementation of Fish relocation plan will minimize direct impacts.
New Disturbance - Construction	Stream Crossings, cofferdam	Temporary loss of occupied habitat, Physical impacts to individuals, Habitat degradation and water quality degradation, Reduction of prey population	Sedimentation, altered flow, contaminants, impoundment, noise	tributary and near stream earth disturbance may result in increased sedimentation altered flow may result in increased sedimentation, contaminant spills from equipment located in tributary stream, dam could restrict up/down stream movement of species, noise from in water work	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Temporary loss of instream habitat will occur at stream crossings that use cofferdams and bridge center supports. Additionally cofferdam placement/removal, installation of bridge center supports, and other instream activities will temporarily re-suspend sediments and increase turbidity. We expect RLP will avoid these areas until the instream structures are removed and turbidity returns to baseline levels. If instream work occurs during spawning, RLP will be unable to successfully spawn in these areas, If work occurs after completion of spawning, crushing or removal of eggs is likely to occur. TOYR will minimize direct impacts at Butterwood Creek and Nottoway River 1. Implementation of Fish relocation plan will minimize direct impacts.
New Disturbance - Construction	Stream Crossings, Horizontal Directional Drill (HDD)	Water quality degradation, Physical Impacts to Individuals, Reduction of prey population	Sedimentation, Frac-out, Noise	tributary, near and in stream earth disturbance may result in increased sedimentation, risk of frac-out during drilling operations, noise from drilling activities	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	NLAA	HDD at the Nottoway River 2 (MP 32.6) crossing. RLP presence assumed. Based on the frac-out report, risk of frac-out is low.
New Disturbance - Construction	Stream Crossings, conventional bore	Permanent or temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation, Contaminants, Altered flow, Noise	tributary and in stream earth disturbance can cause increase in sedimentation and turbidity, Equipment located in stream or tributary can increase chance of spills, altered flow velocities and temporary impoundment from in-water work, minor noise from construction activities in water.	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	NE	This is not proposed as a crossing method at the 4 RLP crossings (FEIS pg 4-288).

Table 3. Analysis of effects on RLP.

Pipeline Activity	Subactivity	Environmental Impact or Effect	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Stream Crossings, direct pipe	Permanent or temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation, Contaminants, Altered flow, Noise	tributary and in stream earth disturbance can cause increase in sedimentation and turbidity. Equipment located in stream or tributary can increase chance of spills, altered flow velocities and temporary impoundment from in-water work, minor noise from construction activities in water.	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	NE	This is not proposed as a crossing method at the 4 RLP crossings (FEIS pg 4-288).
New Disturbance - Construction	Stream Equipment Crossing Structures	Permanent or temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation, Contaminants, Altered flow, Noise	tributary and in stream earth disturbance can cause increase in sedimentation and turbidity. Equipment located in stream or tributary can increase chance of spills, altered flow velocities and temporary impoundment from in-water work, minor noise from construction activities in water.	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Temporary loss of instream habitat will occur at Butterwood and Sturgeon Creeks because the bridge center support will be installed during the RLP TOYR. Additionally, installation of bridge center supports will temporarily re-suspend sediments and increase turbidity. We expect RLP will avoid these areas until the instream structures are removed and turbidity returns to baseline levels. If instream work occurs during spawning, RLP will be unable to successfully spawn in these areas. If work occurs after completion of spawning, crushing or removal of eggs is likely to occur.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - clearing	Neutral	None	NA	NA	NA	NA	NA	NE	Activity is not located in streams or rivers. In addition, if non-riparian then activity would not be adjacent to occupied habitat and therefore this would be a no effect.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - tree side trimming	Neutral	None	NA	NA	NA	NA	NA	NE	Activity is not located in streams or rivers. In addition, if non-riparian then activity would not be adjacent to occupied habitat and therefore this would be a no effect.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - grading, trenching, regrading	Neutral	None	NA	NA	NA	NA	NA	NE	Activity is not located in streams or rivers. In addition, if non-riparian then activity would not be adjacent to occupied habitat and therefore this would be a no effect.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - pipe stringing	Neutral	None	NA	NA	NA	NA	NA	NE	Activity is not located in streams or rivers. In addition, if non-riparian then activity would not be adjacent to occupied habitat and therefore this would be a no effect.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - HDD	Neutral	None	NA	NA	NA	NA	NA	NE	Activity is not located in streams or rivers. In addition, if non-riparian then activity would not be adjacent to occupied habitat and therefore this would be a no effect.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - conventional bore	Neutral	None	NA	NA	NA	NA	NA	NE	Activity is not located in streams or rivers. In addition, if non-riparian then activity would not be adjacent to occupied habitat and therefore this would be a no effect.
Operation & Maintenance	Facilities - vehicles, foot traffic, noise, communication facilities	Habitat degradation, Water quality degradation	Sedimentation, Contaminants	Stormwater runoff from pollution generating pavement, Stormwater erosion	Unlikely	NA	NA	NA	NLAA	
Operation & Maintenance	Vegetation Management - mowing	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action. Will not introduce sediment or contaminants into the streams or rivers.
Operation & Maintenance	Vegetation Management - chainsaw and tree clearing	Habitat degradation and water quality degradation, Stress on individuals, Reduction in prey population	Sedimentation, Increase in Water Temperatures, Decrease of dissolved oxygen	denuding bank, grubbing with heavy equipment, disturbing soil, water quality degradation since vegetation no longer provides shade to stream	Unlikely	NA	NA	NA	NLAA	ACP is narrowing their construction ROW at waterbody crossings to 75ft to minimize clearing of trees and riparian vegetation. Post construction ACP will maintain a 10ft wide ROW, which will further lessen impacts from vegetation removal.
Operation & Maintenance	Vegetation Management - herbicides - hand, vehicle mounted, aerial applications	Habitat degradation and water quality degradation, Stress on individuals, Reduction in prey population	Chemical Contaminants	direct exposure to chemicals from spills and stormwater runoff	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction	NLAA	Herbicides or pesticides will not be used within 100 feet of a waterbody except as allowed by the appropriate land management or state agency (Construction, Operations, and Maintenance Plans pg. 143). Aerial spraying would not be utilized for invasive species control along the ROW.
Operation & Maintenance	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action.
Operation & Maintenance	Vegetation Disposal (upland) - brush pile burning	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action.
Operation & Maintenance	Vegetation Management - tree side trimming by bucket truck or helicopter	Habitat degradation and water quality degradation, Stress on eggs.	Increase in Water Temperatures, Decrease of dissolved oxygen	habitat and water quality degradation since vegetation no longer provides shade to stream	Unlikely	NA	NA	NA	NLAA	ACP is narrowing their construction ROW at waterbody crossings to 75ft to minimize clearing of trees and riparian vegetation. Post construction ACP will maintain a 10ft wide ROW, which will further lessen impacts from vegetation removal.

Table 3. Analysis of effects on RLP.

Operation Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
Operation & Maintenance	ROW repair, regrading, revegetation (upland) - hand, mechanical	Habitat degradation, Water quality degradation	Minor sedimentation, Lowered dissolved oxygen, Contaminants	tributary and/or near stream earth disturbance can cause minor increase in sedimentation, Storm water runoff, fertilizers used in revegetation can cause algae blooms which will lower dissolved oxygen	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	E&S measures will minimize impacts through erosion control and restoration of graded areas. In addition, the FEIS states that grubbing will not occur within 50 feet of ESA sensitive waterbodies between November 15 - April 1 (FEIS pg 4-252). RLP TOYR is March 15 - June 30 so this only somewhat benefits the RLP.
Operation & Maintenance	ROW repair, regrading, revegetation (wetland) - hand, mechanical	Permanent or temporary loss of habitat, Habitat degradation, Water quality degradation, Physical impacts to individuals, Reduction of prey	Minor sedimentation, Lowered dissolved oxygen, Contaminants	tributary and/or near stream earth disturbance can cause minor increase in sedimentation, Storm water runoff, fertilizers used in revegetation can cause algae blooms which will lower dissolved oxygen. Equipment located in connected wetland can increase chance of spills	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Although there is a chance for contaminant spills from equipment, this would not likely jeopardize this species as spills would take place outside of habitat. In addition, contaminant spill impacts should be minimal in any habitat if BMPs outlined in the ECS are followed. The FEIS states that grubbing will not occur within 50 feet of ESA sensitive waterbodies between November 15 - April 1 (FEIS pg 4-252). RLP TOYR is March 15 - June 30 so this only somewhat benefits the RLP.
Operation & Maintenance	ROW repair, regrading, revegetation - instream stabilization and/or fill	Permanent or temporary loss of habitat, Habitat degradation, Water quality degradation, Physical impacts to individuals, Reduction of prey	Sedimentation, Contaminants, Altered flow	tributary and in stream earth disturbance can cause increase in sedimentation and turbidity, Equipment located in stream or tributary can increase chance of spills, altered flow velocities and temporary impoundment from in-water work	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	The FEIS states that grubbing will not occur within 50 feet of ESA sensitive waterbodies between November 15 - April 1 (FEIS pg 4-252). RLP TOYR is March 15 - June 30 so this only somewhat benefits the RLP. In addition the ECS outlines the use of erosion control measures and restoration of graded areas.
Operation & Maintenance	Access Road Maintenance - grading, graveling	Temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation	tributary and in stream earth disturbance can cause increase in sedimentation	Unlikely	NA	NA	NA	NLAA	The FEIS state that vegetation maintenance will be limited in the 50 feet adjacent to waterbodies, minimizing ground and vegetation disturbance (FEIS pg 4-252). In addition the ECS outlines the use of erosion control measures and restoration of graded areas.
Operation & Maintenance	Access Road Maintenance - culvert replacement	Permanent or temporary loss of habitat, Habitat degradation, Physical impacts to individuals, Reduction of prey population	Sedimentation, Contaminants, Altered flow	tributary and in stream earth disturbance can cause increase in sedimentation and turbidity, Equipment located in stream or tributary can increase chance of spills, altered flow velocities and temporary impoundment from in-water work, minor noise from construction activities in water.	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	The FEIS states that grubbing will not occur within 50 feet of ESA sensitive waterbodies between November 15 - April 1 (FEIS pg 4-252). RLP TOYR is March 15 - June 30 so this only somewhat benefits the RLP. In addition the ECS outlines the use of erosion control measures and restoration of graded areas.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - Off ROW Clearing	Habitat degradation and water quality degradation, Stress on individuals, Reduction in prey population	Sedimentation, Increase in Water Temperatures, Decrease of dissolved oxygen	denuding bank, grubbing with heavy equipment, disturbing soil, water quality degradation since vegetation no longer provides shade to stream	Unlikely	NA	NA	NA	LAA	The FEIS states that grubbing will not occur within 50 feet of ESA sensitive waterbodies between November 15 - April 1 (FEIS pg 4-252). RLP TOYR is March 15 - June 30 so this only somewhat benefits the RLP. In addition the ECS outlines the use of erosion control measures and restoration of graded areas.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - trenching, anode, bell hole	Temporary loss of habitat, Water quality degradation, Physical impacts, Reduction of prey population	Sedimentation, Short-term altered flow, Contaminants	near, in-stream, and tributary earth disturbance may result in increased sedimentation, altered flow result in increased sedimentation and short-term impoundment, contaminant spills from equipment located in-stream and tributary, noise from in-water work	Habitat, Population, Individuals	Harass, Harm, Kill	Breeding, Feeding, Sheltering	Numbers, reproduction, distribution	LAA	Trenching will cause sedimentation. Moderately silted and high turbidity areas will be unusable to RLP for foraging and spawning in the immediate vicinity of the crossing. Heavy siltation is also anticipated to result in a loss of prey items.
Operation & Maintenance	Inspection Activities - ground and aerial	Neutral	None	NA	NA	NA	NA	NA	NE	No impacts to stream habitats are anticipated from this action. Will not introduce sediment or contaminants into the streams or rivers.

Table 4. Analysis of effects on Clubshell.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE or NLAA, or LAA	Comments
New Disturbance - Construction	Vehicle Operation and Foot Traffic	neutral	none	NA	NA	NA	NA	NA	NLAA	Foot traffic and vehicle operation is not likely to adversely affect clubshell.
New Disturbance - Construction	Clearing - herbaceous vegetation and ground cover	habitat degradation	altering habitat	increased sedimentation	juveniles, adults	harm, harass	breeding, feeding, sheltering	reproduction	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Clearing - trees and shrubs	habitat degradation	altering habitat	increased sedimentation	juveniles, adults	harm, harass	breeding, feeding, sheltering	reproduction	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	neutral	none	NA	NA	NA	NA	NA	NE	Vegetation disposal will not effect clubshell.
New Disturbance - Construction	Vegetation Disposal (upland) - brush pile burning	neutral	none	NA	NA	NA	NA	NA	NE	Brush pile burning will not effect clubshell.
New Disturbance - Construction	Vegetation Clearing - tree side trimming by bucket truck or helicopter	neutral	none	NA	NA	NA	NA	NA	NE	Side trimming of trees will not effect clubshell.
New Disturbance - Construction	Grading, erosion control devices	habitat degradation	altering habitat	increased sedimentation	juveniles, adults	harm, harass	breeding, feeding, sheltering	reproduction	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Trenching (digging, blasting, dewatering, open trench, sedimentation)	habitat degradation	altering habitat	increased sedimentation	juveniles, adults	harm, harass	breeding, feeding, sheltering	reproduction	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Pipe Stringing - bending, welding, coating, padding and backfilling	neutral	none	NA	NA	NA	NA	NA	NE	Pipe stringing will not effect clubshell.
New Disturbance - Construction	Hydrostatic Testing (water withdrawal and discharge)	neutral	none	NA	NA	NA	NA	NA	NE	No water withdrawals from Hackers Creek or nearby streams. Water will be jumped between segments and not discharged near clubshell.
New Disturbance - Construction	Regrading and Stabilization - restoration of corridor	habitat degradation	altering habitat	increased sedimentation and contaminant impacts to habitat	juveniles, adults	harm, harass	breeding, feeding, sheltering	reproduction	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Compression Facility, noise	neutral	none	NA	NA	NA	NA	NA	NE	Noise will not effect clubshell
New Disturbance - Construction	Communication Facility - guy lines, noise, lights	neutral	none	NA	NA	NA	NA	NA	NE	Noise and lights will not effect clubshell.

Table 4. Analysis of effects on Clubshell.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE or NLAA, or LAA	Comments
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - grading, graveling	physical impact to individuals, habitat degradation	direct impacts to individuals, altering habitat	dislocating and crushing individuals, alteration of aquatic habitat	juveniles, adults	kill, harm, harass	breeding, feeding, sheltering	numbers	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - culvert installation	habitat degradation	altering habitat	increased sedimentation	juveniles, adults	harm, harass	breeding, feeding, sheltering	reproduction	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - tree trimming and tree removal	habitat degradation	altering habitat	increased sedimentation	juveniles, adults	harm, harass	breeding, feeding, sheltering	reproduction	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Stream Crossings, wet ditch	neutral	none	NA	NA	NA	NA	NA	NE	No wet ditch crossings near clubshell.
New Disturbance - Construction	Stream Crossings, flume	physical impact to individuals, habitat degradation	direct impacts to individuals	dislocating and crushing individuals, alteration of aquatic habitat	juveniles, adults	kill, harm, harass	breeding, feeding, sheltering	numbers	LAA	Installation of crossing structures may cause increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Stream Crossings, dam & pump	physical impact to individuals, habitat degradation	direct impacts to individuals	dislocating and crushing individuals, alteration of aquatic habitat	juveniles, adults	kill, harm, harass	breeding, feeding, sheltering	numbers	LAA	Installation of crossing structures may cause increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Stream Crossings, cofferdam	neutral	none	NA	NA	NA	NA	NA	NE	No cofferdam crossings near clubshell.
New Disturbance - Construction	Stream Crossings, Horizontal Directional Drill (HDD)	neutral	none	NA	NA	NA	NA	NA	NE	No HDD in WV.
New Disturbance - Construction	Stream Crossings, conventional bore	neutral	none	NA	NA	NA	NA	NA	NE	No horizontal bore in WV.
New Disturbance - Construction	Stream Crossings, direct pipe	neutral	none	NA	NA	NA	NA	NA	NE	No direct pipe crossings near clubshell.
New Disturbance - Construction	Stream Equipment Crossing Structures	physical impact to individuals, habitat degradation	direct impacts to individuals	dislocating and crushing individuals, alteration of aquatic habitat	juveniles, adults	kill, harm, harass	breeding, feeding, sheltering	numbers	LAA	Installation of crossing structures may cause increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.

Table 4. Analysis of effects on Clubshell.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE or NLAA or LAA	Comments
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - clearing	physical impact to individuals, habitat degradation	direct impacts to individuals	dislocating and crushing individuals, alteration of aquatic habitat	juveniles, adults	kill, harm, harass	breeding, feeding, sheltering	numbers	LAA	Installation of crossing structures may cause increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - tree side trimming	neutral	none	NA	NA	NA	NA	NA	NE	Side trimming will not adversely affect clubshell.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - grading, trenching, regrading, dewatering, restoration	physical impact to individuals, habitat degradation	direct impacts to individuals	dislocating and crushing individuals, alteration of aquatic habitat	juveniles, adults	kill, harm, harass	breeding, feeding, sheltering	numbers	LAA	Increased sediment load to stream will impair feeding of clubshell. Mussel gills can become overwhelmed with excessive suspended sediment, causing a mussel to either reduce its water and food intake rate or close altogether. Increased turbidity causing impaired feeding can result in reduced physiological function; depressed rates of growth, reproduction, and recruitment. Siltation resulting from increased sediment loads may also alter and degrade habitat conditions which may suffocate and kill some individual clubshell.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - pipe stringing	neutral	none	NA	NA	NA	NA	NA	NE	Pipe stringing will not adversely affect clubshell.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - HDD	neutral	none	NA	NA	NA	NA	NA	NE	No HDD in WV.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - conventional bore	neutral	none	NA	NA	NA	NA	NA	NE	No conventional bore in WV.
Operation & Maintenance	Facilities - vehicles, foot traffic, noise, communication facilities	neutral	none	NA	NA	NA	NA	NA	NLAA	Take due to sedimentation is assumed from other activities occurring on the pipeline corridor prior to these activities.
Operation & Maintenance	Vegetation Management - mowing	neutral	none	NA	NA	NA	NA	NA	NE	Mowing will not effect clubshell.
Operation & Maintenance	Vegetation Management - chainsaw and tree clearing	neutral	none	NA	NA	NA	NA	NA	NLAA	While this activity may increase sediment loads, the effects will be temporary and is not likely to adversely affect clubshell.
Operation & Maintenance	Vegetation Management - herbicides - hand, vehicle mounted, aerial applications	neutral	none	NA	NA	NA	NA	NA	NE	
Operation & Maintenance	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	neutral	none	NA	NA	NA	NA	NA	NE	Vegetation disposal will not effect clubshell.
Operation & Maintenance	Vegetation Disposal (upland) - brush pile burning	neutral	none	NA	NA	NA	NA	NA	NE	Brush pile burning will not effect clubshell.
Operation & Maintenance	Vegetation Management - tree side trimming by bucket truck or helicopter	neutral	none	NA	NA	NA	NA	NA	NE	Side trimming of trees will not effect clubshell.
Operation & Maintenance	ROW repair, regrading, revegetation (upland) - hand, mechanical	neutral	none	NA	NA	NA	NA	NA	NLAA	While this activity may increase sediment loads, the effects will be temporary and is not likely to adversely affect clubshell.
Operation & Maintenance	ROW repair, regrading, revegetation (wetland) - hand, mechanical	neutral	none	NA	NA	NA	NA	NA	NLAA	Physical impacts to wetlands would not likely transport to streams.
Operation & Maintenance	ROW repair, regrading, revegetation - in stream stabilization and/or fill	neutral	none	NA	NA	NA	NA	NA	NLAA	While this activity may increase sediment loads, the effects will be temporary and is not likely to adversely affect clubshell.
Operation & Maintenance	Access Road Maintenance - grading, graveling	neutral	none	NA	NA	NA	NA	NA	NLAA	While this activity may increase sediment loads, the effects will be temporary and is not likely to adversely affect clubshell.
Operation & Maintenance	Access Road Maintenance - culvert replacement	neutral	none	NA	NA	NA	NA	NA	NLAA	While this activity may increase sediment loads, the effects will be temporary and is not likely to adversely affect clubshell.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - Off ROW Clearing	neutral	none	NA	NA	NA	NA	NA	NLAA	While this activity may increase sediment loads, the effects will be temporary and is not likely to adversely affect clubshell.

Table 4. Analysis of effects on Clubshell.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE or NLAA, or LAA	Comments
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - trenching, anode, bell hole	neutral	none	NA	NA	NA	NA	NA	NE	These activities will not effect clubshell.
Operation & Maintenance	Inspection Activities - ground and aerial	neutral	none	NA	NA	NA	NA	NA	NE	Inspection activities will not effect clubshell.

Table 5. Analysis of effects on RPBB.

Project Activity	Subactivity	Environmental Impacts/Threats	Stressor	Stressor Pathway (upland)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	SE, NLAA, or LAA	Comments
New Disturbance - Construction	Vehicle Operation and Foot Traffic	human activity & disturbance	decreased foraging; crushing colonies or overwintering queens	human presence	all life stages	Kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Vehicle operation of established roads may crush RPBB individuals. There is no evidence that vehicle operation at low speeds on established roads would impact individual RPBB. Foot traffic is not expected to crush RPBB.
New Disturbance - Construction	Clearing - herbaceous vegetation and ground cover	clearing of floral habitat; human activity & disturbance	alteration of summer foraging habitat, & colony habitat; decreased foraging efficiency; crushing individuals, colonies or overwintering queens	vegetation removal; human presence	all life stages	kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Clearing of herbaceous vegetation while RPBB are present in habitat is expected to have a direct effect on the quality, quantity, and timing of floral resources; thereby reducing survivability and reproductive success of queens; equipment used could crush individuals, queens or colonies.
New Disturbance - Construction	Clearing - trees and shrubs	clearing of foraging habitat; human activity & disturbance	alteration of summer foraging habitat, & colony habitat; decreased foraging efficiency; crushing individuals, colonies or overwintering queens	vegetation removal; human presence	all life stages	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	Clearing of trees and shrubs while RPBB are present in habitat is expected to have a direct effect on the quality, quantity, and timing of floral resources; thereby reducing survivability and reproductive success of queens; equipment used could crush individuals, queens or colonies.
New Disturbance - Construction	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	human activity & disturbance	alteration of summer foraging habitat, & colony habitat; decreased foraging & travel efficiency; crushing individuals in colonies or overwintering		all life stages	kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Vegetation disposal may crush foraging individuals.
New Disturbance - Construction	Vegetation Disposal (upland) - brush pile burning	human activity & disturbance; smoke	decreased foraging	smoke; human presence & noise	all life stages	none expected	NA	NA	NLAA	Smoke inhalation may agitate bees but response is not expected to be detrimental.
New Disturbance - Construction	Vegetation Clearing - tree side trimming by bucket truck or helicopter	No side trimming occurs for new construction.	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Grading, erosion control devices	alteration of water flow; vegetation removal; human activity	alteration of foraging habitat	vegetation removal; human presence	all life stages	kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Construction associated with grading and erosion control devices could crush foraging individuals if conducted in HPZ.
New Disturbance - Construction	Trenching (digging, blasting, dewatering, open trench, sedimentation)	human activity; ground disturbance; instream & riparian disturbance; temporary dewatering	NA	instream sedimentation & water flow disruption; human presence & noise	unlikely	none expected	NA	NA	NLAA	This activity is not expected to occur in HPZ.
New Disturbance - Construction	Pipe Stringing - bending, welding, coating, padding and backfilling	human activity	NA	human presence & noise	unlikely	none expected	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in disturbance of RPBB.
New Disturbance - Construction	Hydrostatic Testing (water withdrawal and discharge)	withdrawal/discharge of water into aquatic habitats; human activity	NA	water alterations; human presence & noise	unlikely	none expected	NA	NA	NLAA	This activity is not expected to occur in HPZ.
New Disturbance - Construction	Regrading and Stabilization - restoration of corridor	human activity & disturbance	Removal of foraging vegetation and nesting habitat; crushing of individuals	habitat disturbance; human presence & noise	all life stages	kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Construction associated with this activity could crush foraging individuals if conducted in HPZ.
New Disturbance - Construction	Compression Facility - noise	noise disturbance	NA	human presence	unlikely	none expected	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in disturbance to RPBB.
New Disturbance - Construction	Communication Facility - guy lines, noise, lights	human activity and facilities	NA	human presence	unlikely	none expected	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in disturbance to RPBB.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - grading, graveling	alteration of surface water flow; vegetation removal; human activity	Removal of foraging vegetation and nesting habitat; crushing of individuals in colonies or overwintering	removal of foraging habitat	all life stages	kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Construction associated with this activity could crush foraging individuals if conducted in HPZ.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - culvert installation	tree removal; loss or alteration of forested habitat; human disturbance	Removal of foraging vegetation and nesting habitat; crushing of individuals in colonies or overwintering	vegetation removal; human presence	all life stages	kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Construction associated with this activity could crush foraging individuals if conducted in HPZ.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - tree trimming and tree removal	tree removal; loss or alteration of forested habitat; human disturbance	Removal of foraging vegetation and nesting habitat; crushing of individuals in colonies or overwintering	vegetation removal; human presence	all life stages	kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Tree removal could crush foraging individuals.
New Disturbance - Construction	Stream Crossings, wet open cut ditch	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Stream Crossings, flume	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Stream Crossings, dam & pump	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Stream Crossings, cofferdam	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Stream Crossings, Horizontal Directional Drill (HDD)	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Stream Crossings, conventional bore	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Stream Crossings, direct pipe	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Stream Equipment Crossing Structures	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - clearing	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - tree side trimming	No side trimming occurs for new construction.	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - grading, trenching, regrading	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - pipe stringing	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - HDD	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - conventional bore	RPBB not present	NA	NA	NA	NA	NA	NA	NE	NA
Operation & Maintenance	Facilities - vehicles, foot traffic, noise, communication facilities	increased human activity/disturbance	decreased foraging efficiency; crushing individuals	human presence; vehicle traffic	all life stages	Kill, harm, harass	breeding, feeding	numbers, reproduction	LAA	Vehicle traffic may crush RPBB foraging along roadsides. Traffic may disrupt foraging behavior and displace individual RPBBs.
Operation & Maintenance	Vegetation Management - mowing	loss or alteration of forested habitat; increased human activity/disturbance	decreased foraging efficiency	vegetation removal	all life stages	none expected	NA	NA	NLAA	Mowing may reduce RPBB foraging resources, alteration of habitat, mowing blades may crush RPBB. Conservation measure to maintain a minimum blade height of 10 inches during maintenance of the ROW should significantly reduce the likelihood of impacts from crushing.

Table 5. Analysis of effects on RPBB.

Operation Activity	Subactivity	Environmental Impacts (Target)	Stressor	Stressor Pathway (up/down)	Exposure (Resources Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	SE, NLAA, or LAA	Comments
Operation & Maintenance	Vegetation Management - chainsaw and tree clearing	loss or alteration of foraging habitat; increased human activity/ disturbance	alteration of summer foraging habitat, & nesting habitat; kill or injure overwintering queens	vegetation removal; human disturbance	all life stages	Kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	Vegetation alterations to foraging habitat should be small. Tree felling and heavy equipment may crush foraging individuals.
Operation & Maintenance	Vegetation Management - herbicides - hand, vehicle mounted, aerial applications	chemical contamination; vegetation loss; loss of floral habitat	lethal or sublethal exposure to toxins; alteration of travel corridors, summer foraging habitat	contamination of water & vegetation; loss of foraging vegetation (e.g. rhododendrons and woody flowering shrubs)	all life stages	none expected	NA	NA	NLAA	Voluntary conservation measure to avoid aerial or broadcast pesticide and herbicide application. Use of targeted spot-spraying or wiping, or mechanical pulling to target invasive and noxious weeds.
Operation & Maintenance	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	human activity & disturbance; obstructed nest entrances	loss or alteration of nesting, overwintering habitat	vegetation removal; human disturbance	all life stages	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	Vegetation disposal may crush individuals.
Operation & Maintenance	Vegetation Disposal (upland) - brush pile burning	human activity & disturbance; smoke disturbance	smoke inhalation	smoke in foraging or nesting habitat	all life stages	none expected	NA	NA	NLAA	Response of RPBBs to smoke is not expected to be detrimental.
Operation & Maintenance	Vegetation Management - tree side trimming by bucket truck or helicopter	loss or alteration of foraging habitat; human disturbance; compaction of soil	alteration of foraging habitat; alteration of nesting and overwintering habitat	vegetation removal; human disturbance	unlikely	none expected	NA	NA	NLAA	AMMs minimize potential effects; vegetation alterations to foraging habitat should be small. Noise and activity levels are anticipated to be low with no disturbance to colonies. Although some foraging habitat may be altered, we do not expect indirect effects to occur because the majority of habitat will not be altered. Trimming may result in increased light to the forest floor, creating opportunity for increased floral resources. Effects are expected to be insignificant.
Operation & Maintenance	ROW repair, regrading, revegetation (upland) - hand, mechanical	tree removal; loss or alteration of floral resources and forested habitat; human disturbance	alteration of summer foraging habitat, & colony habitat; crushing of colonies & overwintering queens	vegetation removal; human disturbance	all life stages	Kill, harm, harass	breeding, feeding, sheltering	numbers, reproduction	LAA	ROW repairs occur in areas of soil erosion where floral resources may be of higher quality. ROW repairs may remove nesting habitat, or crush individuals.
Operation & Maintenance	ROW repair, regrading, revegetation (wetland) - hand, mechanical	tree removal; loss or alteration of forested habitat; human disturbance	alteration of summer foraging habitat	vegetation removal; human disturbance	all life stages	none expected	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on RPBB or their foraging habitat.
Operation & Maintenance	ROW repair, regrading, revegetation - in stream stabilization and/or fill	tree removal; loss or alteration of forested habitat; human disturbance	alteration of summer foraging habitat	vegetation removal; human disturbance	unlikely	none expected	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on RPBB or their habitat.
Operation & Maintenance	Access Road Maintenance - grading, graveling	removal; loss or alteration of floral habitat; human disturbance	alteration of summer foraging habitat, & colony habitat; crushing of colonies & overwintering queens	vegetation removal; human disturbance	all life stages	kill, harm, harass	feeding, breeding, sheltering	numbers, reproduction	LAA	Vegetation alterations will remove high quality foraging habitat, impacting survival and reproduction. Activities could crush individuals.
Operation & Maintenance	Access Road Maintenance - culvert replacement	tree removal; loss or alteration of floral habitat; human disturbance	alteration of summer foraging habitat, & colony habitat; crushing of colonies & overwintering queens	vegetation removal; human presence	all life stages	none expected	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on RPBB or their habitat.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - Off ROW Clearing	tree removal; loss or alteration of forested habitat; human disturbance	loss or alteration of summer foraging habitat (e.g. rhododendrons); overwintering habitat	vegetation removal; human presence	all life stages	none expected	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on RPBB or their habitat.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - trenching, anode, bell hole	human disturbance	decreased foraging & travel efficiency	human presence	all life stages	none expected	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on RPBB or their habitat.
Operation & Maintenance	Inspection Activities - ground and aerial	human activity & disturbance	decreased foraging & travel efficiency	human presence	all life stages	none expected	NA	NA	NLAA	The level of impact from these activities is not expected to have noticeable or measurable impacts on RPBB or their habitat.

Table 6. Analysis of effects on Madison Cave isopod.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Vehicle Operation and Foot Traffic	Physical impacts to individuals	chemical contaminants	NA	NA	NA	NA	NA	NLAA	No impacts from foot traffic. AMMs address contaminants from vehicles.
New Disturbance - Construction	Clearing - herbaceous vegetation and ground cover	Physical impacts to individuals, Habitat alteration	smothering, sedimentation, changes in hydrology	NA	NA	NA	NA	NA	NLAA	Primary impact from new construction is from earth disturbing actions (grading and trenching) not from the vegetation removal. ACP has committed to AMMs to address the potential for this impact. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Clearing - trees and shrubs	Physical impacts to individuals, Habitat alteration	smothering, sedimentation, changes in hydrology	NA	NA	NA	NA	NA	NLAA	Primary impact from new construction is from earth disturbing actions (grading and trenching) not from the vegetation removal. ACP has committed to AMMs to address the potential for this impact. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	Physical impacts to individuals	chemical contaminants, smothering	NA	NA	NA	NA	NA	NLAA	AMMs address potential contaminants from chipper. No stacking or piling will be done in potential MCI habitat.
New Disturbance - Construction	Vegetation Disposal (upland) - brush pile burning	NA	NA	NA	NA	NA	NA	NA	NE	No impacts from burning. Will not affect the MCI because they will not introduce sediment or contaminants into the phreatic water.
New Disturbance - Construction	Vegetation Clearing - tree side trimming by bucket truck or helicopter	NA	NA	NA	NA	NA	NA	NA	NE	No impacts from tree trimming. Will not affect the MCI because they will not introduce sediment or contaminants into the phreatic water.
New Disturbance - Construction	Grading, erosion control devices	Physical impacts to individuals, Habitat degradation	smothering, sedimentation	grading near the karst "caves" disturbs the ground, may cave in sinkholes, displaced topsoil and vegetation may be placed in karst features	individuals, habitat	harass to mortality	breeding, feeding, sheltering	numbers, reproduction	LAA	Grading redistributes and loosens soil making it more prone to erosion. Depending on the amount and speed of the erosion event, MCI will either avoid a particular area until the sediment is settled or be smothered. Due to the distance from the construction ROW and ATWS (0.5 mi), we anticipate the population of MCI at the Barterbrooke Blue-Cave Hill Conservation Site will receive little to no sedimentation and effects to MCI at this site is NLAA.
New Disturbance - Construction	Trenching (digging, blasting, dewatering, open trench, sedimentation)	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, contaminants	digging into karst areas causes direct movement of sediments into MCI habitat and may smother MCI, blasting fractures the rock and materials may fall onto MCI either smothering or crushing	individuals, habitat	harass to mortality	breeding, feeding, sheltering	numbers, reproduction	LAA	Digging redistributes and loosens soil making it more prone to erosion. Depending on the amount and speed of the erosion event, MCI will either avoid a particular area until the sediment is settled or be smothered. Loosened subsurface rocks from trenching or blasting is expected to disrupt the subsurface water flow and alter MCI travel corridors. Trenching or blasting is anticipated to intercept a subsurface void, creating a direct conduit for soil and sediment to enter into the subsurface habitat. These changes will render habitat temporarily or permanently unsuitable for use by the MCI and is likely to prevent movements among or between populations. Due to the distance from the construction ROW and ATWS (0.5 mi), we anticipate the population of MCI at the Barterbrooke Blue-Cave Hill Conservation Site will receive little to no sedimentation and effects to MCI at this site is NLAA.
New Disturbance - Construction	Pipe Stringing - bending, welding, coating, padding and backfilling	NA	NA	NA	NA	NA	NA	NA	NE	
New Disturbance - Construction	Hydrostatic Testing (water withdrawal and discharge)	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	Hydro test water AMMs reduce any impacts to insignificant/discountable. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Regrading and Stabilization - restoration of corridor	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Compression Facility, noise	NA	NA	NA	NA	NA	NA	NA	NE	No impacts anticipated from noise.
New Disturbance - Construction	Communication Facility - guy lines, noise, lights	NA	NA	NA	NA	NA	NA	NA	NE	No impacts anticipated from communication towers.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - grading, graveling	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, changes in hydrology, contaminants	NA	individuals, habitat	mortality	breeding, feeding, sheltering	numbers, repro	LAA	Creation of new surface features (roads) may alter hydrology. Grading redistributes and loosens soil making it more prone to erosion. Depending on the amount and speed of the erosion event, MCI will either avoid a particular area until the sediment is settled or be smothered. Any MCI present in the zones of impact will likely be crushed or smothered.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - culvert installation	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, changes in hydrology, contaminants	NA	individuals, habitat	mortality	breeding, feeding, sheltering	numbers, repro	LAA	Digging redistributes and loosens soil making it more prone to erosion. Depending on the amount and speed of the erosion event, MCI will either avoid a particular area until the sediment is settled or be smothered. These changes will render habitat temporarily or permanently unsuitable for use by the MCI and is likely to prevent movements among or between populations. We do not anticipate culvert installation would generate a sediment plume large enough to smother MCI, nor do we anticipate culvert installation would loosen subsurface rocks, which could fall and crush MCI. Due to the distance from the construction ROW and ATWS (0.5 mi), we anticipate the population of MCI at the Barterbrooke Blue-Cave Hill Conservation Site will receive little to no sedimentation and effects to MCI at this site is NLAA.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - tree trimming and tree removal	Physical impacts to individuals, Habitat degradation	sedimentation	NA	NA	NA	NA	NA	NLAA	No impact anticipated from selective tree removal. AMMs address sedimentation. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.

Table 6. Analysis of effects on Madison Cave isopod.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Stream Crossings, wet ditch	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Stream Crossings, flume	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Stream Crossings, dam & pump	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Stream Crossings, cofferdam	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Stream Crossings, Horizontal Directional Drill (HDD)	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	HDD will not be used within mapped MCI potential habitat zone.
New Disturbance - Construction	Stream Crossings, conventional bore	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	Conventional bore will not be used within MCI potential habitat.
New Disturbance - Construction	Stream Crossings, direct pipe	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	Direct pipe will not be used within MCI potential habitat
New Disturbance - Construction	Stream Equipment Crossing Structures	NA	NA	NA	NA	NA	NA	NA	NE	Impacts from stream crossings considered above.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - clearing	Physical impacts to individuals, Habitat degradation	smothering, sedimentation	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - tree side trimming	NA	NA	NA	NA	NA	NA	NA	NE	No anticipated impacts from tree trimming. Will not affect the MCI because they will not introduce sediment or contaminants into the phreatic water.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - grading, trenching, regrading	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, contaminants	grading activity disturbs the ground and sedimentation into possible connections to MCI habitat. Trenching may result in connections with subsurface habitat.	individuals, habitat	harass to mortality	breeding, feeding, sheltering	numbers, repro	LAA	Grading redistributes and loosens soil making it more prone to erosion. Depending on the amount and speed of the erosion event, MCI may either avoid a particular area until the sediment is settled or be smothered. Loosened subsurface rocks from trenching may disrupt the subsurface water flow and alter MCI travel corridors. Trenching may intercept a subsurface void, creating a direct conduit for soil and sediment to enter into the subsurface habitat. These changes will render habitat temporarily or permanently unsuitable for use by the MCI and is likely prevent movements among or between populations.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - pipe stringing	NA	NA	NA	NA	NA	NA	NA	NE	No impacts from pipe stringing component of activity.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - HDD	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	HDD will not be used within mapped MCI potential habitat zone.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - conventional bore	Physical impacts to individuals	chemical contaminants	NA	NA	NA	NA	NA	NLAA	Conventional bore will not be used within mapped MCI potential habitat zone.
Operation & Maintenance	Facilities - vehicles, foot traffic, noise, communication facilities	Physical impacts to individuals	chemical contaminants, sedimentation	NA	NA	NA	NA	NA	NLAA	No impacts from foot traffic. AMMs address contaminants and sedimentation from general vehicle use; NOTE vehicle impacts for all O&M subactivities are evaluated here (i.e., vehicle impacts will not be considered under the remaining O&M subactivities). Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.

Table 6. Analysis of effects on Madison Cave isopod.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Construction Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
Operation & Maintenance	Vegetation Management - mowing	NA	NA	NA	NA	NA	NA	NA	NE	Mowing is not an earth disturbing activity - no expected increased sedimentation or contamination from mowing.
Operation & Maintenance	Vegetation Management - chainsaw and tree clearing	Physical impacts to individuals, Habitat degradation	sedimentation	NA	NA	NA	NA	NA	NLAA	No impact from selective tree removal. AMMs address sedimentation. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
Operation & Maintenance	Vegetation Management - herbicides - hand, vehicle mounted, aerial applications	Physical impacts to individuals	chemical contaminants	NA	NA	NA	NA	NA	NLAA	AMMs address herbicides. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS. No spraying of insecticides or herbicides would be allowed within the 300 ft karst feature buffer, except where allowed by state or federal agencies. Aerial spraying would not be utilized for invasive species control along the ROW.
Operation & Maintenance	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	Physical impacts to individuals,	chemical contaminants, smothering	NA	NA	NA	NA	NA	NLAA	AMMs address potential contaminants from chipper. No stacking or piling will be done in potential MCI habitat. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
Operation & Maintenance	Vegetation Disposal (upland) - brush pile burning	NA	NA	NA	NA	NA	NA	NA	NE	No impacts from brush burning. Will not affect the MCI because they will not introduce sediment or contaminants into the phreatic water.
Operation & Maintenance	Vegetation Management - tree side trimming by bucket truck or helicopter	NA	NA	NA	NA	NA	NA	NA	NE	No impacts from tree trimming. Will not affect the MCI because they will not introduce sediment or contaminants into the phreatic water.
Operation & Maintenance	ROW repair, regrading, revegetation (upland) - hand, mechanical	Physical impacts to individuals	smothering, sedimentation	NA	NA	NA	NA	NA	NLAA	No impacts from hand repair. Mechanical repair impacts are addressed by AMMs. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
Operation & Maintenance	ROW repair, regrading, revegetation (wetland) - hand, mechanical	Physical impacts to individuals	smothering, sedimentation	NA	NA	NA	NA	NA	NLAA	No impacts from hand repair. Mechanical repair impacts are addressed by AMMs. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
Operation & Maintenance	ROW repair, regrading, revegetation - in stream stabilization and/or fill	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants, changes in hydrology	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
Operation & Maintenance	Access Road Maintenance - grading, graveling	Physical impacts to individuals, Habitat degradation	smothering, sedimentation, chemical contaminants	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS. We anticipate impacts from road maintenance would be smaller because the majority of impacts are expected from the creation or widening of road.
Operation & Maintenance	Access Road Maintenance - culvert replacement	Physical impacts to individuals, Habitat degradation	smothering, sedimentation	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation, contaminants and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - Off ROW Clearing	Habitat alteration	sedimentation	NA	NA	NA	NA	NA	NLAA	AMMs address sedimentation and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - trenching, anode, bell hole	Habitat alteration	sedimentation		NA	NA	NA	NA	NLAA	AMMs address sedimentation and impacts to karst features. Details are located in the Karst Terrain Assessment Construction, Monitoring and Mitigation Plan (GeoConcepts Engineering, Inc. 2017c) in Appendix I of the FEIS and page 4-300 of the FEIS.
Operation & Maintenance	Inspection Activities - ground and aerial	NA	NA	NA	NA	NA	NA	NA	NE	No impacts from inspections. Will not affect the MCI because they will not introduce sediment or contaminants into the phreatic water.

Table 7. Analysis of effects on Ibat.

Pipeline Activity	Sensitivity	Environmental Impact or Burden	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Vehicle Operation and Foot Traffic	Human activity and disturbance	daytime arousal	human presence	all life stages, spring-fall	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees.
New Disturbance - Construction	Clearing - herbaceous vegetation and ground cover	Clearing of forested habitat, Human activity, and disturbance	alteration of summer roosting habitat, & staging/swarming habitat, daytime arousal	vegetation removal, human presence	all life stages, spring-fall	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from roost trees or disturb hibernating bats. Mowing of herbaceous vegetation while bats are present in habitat is expected to have a direct effect on the quality, quantity, and timing of prey resources; however, the affect on bats foraging is considered insignificant due to the small area of impact within a bats ~2.5 mile home range.
New Disturbance - Construction	Clearing - trees and shrubs	Clearing of forested habitat, Human activity and disturbance	alteration of summer roosting habitat, & staging/swarming habitat, daytime arousal	vegetation removal, human presence	all life stages, spring-fall	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	We expect the majority of effects to I bats from tree clearing will occur in suitable unoccupied summer habitat that I bats use as a travel corridor between hibernacula and roost trees. We anticipate effects will be greatest to pregnant females that expend additional energy to seek alternate travel corridors as a result of tree clearing. If pregnant females dramatically alter their travel corridor they will divert their energetic demands to seek new corridors and will likely give birth to smaller pups, which could decrease pup survival. Tree removal may fragment the habitat such that I bats traveling through the area will be more vulnerable to predation, resulting in injury or death. Tree removal in known use summer habitat will limit roosting options or necessitate roost tree switching when I bats return the following season. Because maternity roost trees are ephemeral, I bats have evolved to relocate roosts at the beginning of the season if needed. Tree removal in unknown use spring staging/fall swarming habitat will remove foraging and roosting areas for a concentrated number of I bats in an abbreviated season (i.e., fall swarming or spring emergence). Clearing trees around hibernacula will decrease foraging and roosting habitat, requiring bats to spend more time searching for food, which could result in bats entering hibernation with less fat reserves or spending less time on social interactions, which could delay breeding. We expect the same effects on I bats from tree removal in known use spring staging/fall swarming habitat as those described for unknown use spring staging/fall swarming habitat. We do not anticipate impacts to bats when they are hibernating based on the protections Karst Mitigation Plan included in Appendix I of the FEIS (FERC 2017).
New Disturbance - Construction	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	Human activity and disturbance, Obstructed hibernacula entrances or vents	loss or alteration of hibernation conditions, hibernacula no longer suitable, daytime arousal	alteration of water or air flow in/out of hibernacula, human presence	all life stages, all seasons	NA	NA	NA	NLAA	AMMs avoid potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from roost trees.
New Disturbance - Construction	Vegetation Disposal (upland) - brush pile burning	Human activity and disturbance, smoke	alteration of hibernating conditions, daytime arousal	smoke, human presence & noise	all life stages, all seasons	NA	NA	NA	NLAA	The direct loss of bats from smoke caused by burning brush piles in summer is insignificant because the effects are difficult to detect and measure. Additionally, the majority of the project area is in suitable unoccupied summer habitat. AMMs will prevent smoke from entering hibernacula in the winter.
New Disturbance - Construction	Vegetation Clearing - tree side trimming by bucket truck or helicopter	Human activity	daytime arousal	human presence & noise	all life stages, all seasons	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from roost trees.
New Disturbance - Construction	Grading, erosion control devices	Alteration of water flow, Vegetation removal, Human activity	altered water flow & humidity in hibernacula	altered water flow	all life stages, all seasons	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from roost trees; AMMs prevent discharge of a significant amount of water into the recharge area of known hibernacula potentially flooding hibernating bats.
New Disturbance - Construction	Trenching (digging, blasting, dewatering, open trench, sedimentation)	Human activity, Ground disturbance, Instream and riparian disturbance, Temporary dewatering	decreased aquatic invertebrates, daytime arousal	instream sedimentation & water flow disruption, human presence & noise	all life stages, all seasons	NA	NA	NA	NLAA	AMMs limit potential impacts to hibernacula by restricting blasting within 0.5 mile of hibernacula; ECS requirements limit loss of aquatic invertebrates so that any loss of I bat forage is insignificant.
New Disturbance - Construction	Pipe Stringing - bending, welding, coating, padding and backfilling	Human activity	daytime arousal	human presence & noise	all life stages, spring-fall	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from roost trees.
New Disturbance - Construction	Hydrostatic Testing (water withdrawal and discharge)	Withdrawal/discharge of water into aquatic habitats, Human activity	decreased aquatic invertebrates, daytime arousal	water alterations, human presence & noise	all life stages, all seasons	NA	NA	NA	NLAA	AMMs prevent discharge of a significant amount of water into the recharge area of known hibernacula potentially flooding hibernating bats; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees, ECS requirements limit loss of aquatic invertebrates so that any loss of I bat forage is insignificant.
New Disturbance - Construction	Regrading and Stabilization - restoration of corridor	Human activity and disturbance, Obstructed hibernacula entrances or vents	loss or alteration of hibernation conditions, daytime arousal	alteration of water or air flow in/out of hibernacula, human presence	all life stages, all seasons	NA	NA	NA	NLAA	AMMs avoid potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees.
New Disturbance - Construction	Compression Facility, noise	Noise disturbance	daytime arousal	human presence	all life stages, spring-fall	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees.
New Disturbance - Construction	Communication Facility - guy lines, noise, lights	Human activity and Facilities	daytime arousal	human presence	all life stages, spring-fall	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - grading, graveling	Alteration of surface water flow, Vegetation removal, Human activity	altered water flow & humidity in hibernacula, alteration of summer roosting habitat, & spring staging/fall swarming habitat, daytime arousal	removal of forested habitat, altered surface water flow into hibernacula, human presence	all life stages	kill, harm, harass	breeding, sheltering	numbers, reproduction	NLAA	AMMs limit potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - culvert installation	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human presence	all life stages	NA	NA	NA	NLAA	The small area and level of impact from these activities on forested habitat is not expected to have noticeable or measurable impacts on I bats or their habitat.

Table 7. Analysis of effects on Ibat.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent- tree trimming and tree removal	Clearing of forested habitat, Human activity and disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, daytime arousal	vegetation removal, human presence	all life stages, spring-fall	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	We expect the majority of effects to Ibats from tree clearing will occur in suitable unoccupied summer habitat that Ibats use as a travel corridor between hibernacula and roost trees. We anticipate effects will be greatest to pregnant females that expend additional energy to seek alternate travel corridors as a result of tree clearing. If pregnant females dramatically alter their travel corridor they will divert their energetic demands to seek new corridors and will likely give birth to smaller pups, which could decrease pup survival. Tree removal may fragment the habitat such that Ibats traveling through the area will be more vulnerable to predation, resulting in injury or death. Tree removal in known use summer habitat will limit roosting options or necessitate roost tree switching when Ibats return the following season. Because maternity roost trees are ephemeral, Ibats have evolved to relocate roosts at the beginning of the season if needed. Tree removal in unknown use spring staging/fall swarming habitat will remove foraging and roosting areas for a concentrated number of Ibats in an abbreviated season (i.e., fall swarming or spring emergence). Clearing trees around hibernacula will decrease foraging and roosting habitat, requiring bats to spend more time searching for food, which could result in bats entering hibernation with less fat reserves or spending less time on social interactions, which could delay breeding. We expect the same effects on Ibats from tree removal in known use spring staging/fall swarming habitat as those described for unknown use spring staging/fall swarming habitat. We do not anticipate impacts to bats when they are hibernating based on the protections Karst Mitigation Plan included in Appendix I of the FEIS (FERC 2017).
New Disturbance - Construction	Stream Crossings, wet open cut ditch	Tree removal, Loss or alteration of forested habitat, Human disturbance, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream sedimentation & water flow disruption, human presence & noise	all life stages, all seasons	NA	NA	NA	NLAA	AMMs will limit blasting activity so that karst features will not be altered or destroyed; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to stream biota would be temporary and limited & localized and not expected to cause any noticeable decrease in Ibat foraging.
New Disturbance - Construction	Stream Crossings, flume	Tree removal, Loss or alteration of forested habitat, Human disturbance, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream sedimentation & water flow disruption, human presence & noise	all life stages	NA	NA	NA	NLAA	AMMs will limit blasting activity so that karst features will not be altered or destroyed; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to stream biota would be temporary and limited & localized and not expected to cause any noticeable decrease in Ibat foraging.
New Disturbance - Construction	Stream Crossings, dam & pump	Tree removal, Loss or alteration of forested habitat, Human disturbance, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream sedimentation & water flow disruption, human presence & noise	all life stages	NA	NA	NA	NLAA	AMMs will limit blasting activity so that karst features will not be altered or destroyed; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to stream biota would be temporary and limited & localized and not expected to cause any noticeable decrease in Ibat foraging.
New Disturbance - Construction	Stream Crossings, cofferdam	Tree removal, Loss or alteration of forested habitat, Human disturbance, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream sedimentation & water flow disruption, human presence & noise	all life stages	NA	NA	NA	NLAA	AMMs will limit potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to stream biota would be temporary and limited & localized and not expected to cause any noticeable decrease in Ibat foraging.
New Disturbance - Construction	Stream Crossings, Horizontal Directional Drill (HDD)	Alteration of surface water flow, Vegetation removal, Human activity, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream drilling fluids, human presence & noise	all life stages	NA	NA	NA	NLAA	AMMs will limit potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to stream biota would be temporary and limited & localized and not expected to cause any noticeable decrease in Ibat foraging.
New Disturbance - Construction	Stream Crossings, conventional bore	Alteration of surface water flow, Vegetation removal, Human activity, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream drilling fluids, human presence & noise	all life stages	NA	NA	NA	NLAA	AMMs will limit potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to stream biota would be temporary and limited & localized and not expected to cause any noticeable decrease in Ibat foraging.
New Disturbance - Construction	Stream Crossings, direct pipe	Alteration of surface water flow, Vegetation removal, Human activity, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream drilling fluids, human presence & noise	all life stages	NA	NA	NA	NLAA	AMMs will limit potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to stream biota would be temporary and limited & localized and not expected to cause any noticeable decrease in Ibat foraging.
New Disturbance - Construction	Stream Equipment Crossing Structures	Human activity, Instream and riparian disturbance	increased daytime arousal, decreased aquatic invertebrates	instream sedimentation & changes in water flow, human presence & noise	all life stages	NA	NA	NA	NLAA	It is extremely unlikely that this activity would result in a modification to recharge areas of cave streams and other karst features that are hydrologically connected to known hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to stream biota would be temporary and limited in localized and not expected to cause any noticeable decrease in Ibat foraging.

Table 7. Analysis of effects on Ibat.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Needs Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - clearing	Clearing of forested habitat, Human activity and disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, daytime arousal	vegetation removal, human presence	all life stages, spring-fall	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	We expect the majority of effects to I bats from tree clearing will occur in suitable unoccupied summer habitat that I bats use as a travel corridor between hibernacula and roost-trees. We anticipate effects will be greatest to pregnant females that expend additional energy to seek alternate travel corridors as a result of tree clearing. If pregnant females dramatically alter their travel corridor they will divert their energetic demands to seek new corridors and will likely give birth to smaller pups, which could decrease pup survival. Tree removal may fragment the habitat such that I bats traveling through the area will be more vulnerable to predation, resulting in injury or death. Tree removal in known use summer habitat will limit roosting options or necessitate roost tree switching when I bats return the following season. Because maternity roost trees are ephemeral, I bats have evolved to relocate roosts at the beginning of the season if needed. Tree removal in unknown use spring staging/fall swarming habitat will remove foraging and roosting areas for a concentrated number of I bats in an abbreviated season (i.e., fall swarming or spring emergence). Clearing trees around hibernacula will decrease foraging and roosting habitat, requiring bats to spend more time searching for food, which could result in bats entering hibernation with less fat reserves or spending less time on social interactions, which could delay breeding. We expect the same effects on I bats from tree removal in known use spring staging/fall swarming habitat as those described for unknown use spring staging/fall swarming habitat. We do not anticipate impacts to bats when they are hibernating based on the protections Karst Mitigation Plan included in Appendix I of the FEIS (FERC 2017).
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - tree side trimming	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting/foraging habitat, & spring staging/fall swarming habitat, increased arousal, daytime disturbance, roost abandonment, increased predation due to daytime activity	vegetation removal, human disturbance	unlikely	kill, harm, harass	breeding, sheltering	numbers, reproduction	NLAA	AMMs minimize potential effects, vegetation alterations to travel corridors and foraging habitat should be extremely small; Noise and activity levels are anticipated to be so low as to not cause bats to flush from adjacent roost trees or hibernacula; Although some roosting habitat may be taken during side trimming during the winter, we do not expect indirect effects to occur because the majority of the tree and therefore roosting habitat will not be removed. Thus, the effects are insignificant.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - grading, trenching, regrading	Alteration of surface water flow, Vegetation removal, Human activity, Wetland disturbance	flooding hibernacula, decreased aquatic invertebrates, alteration of spring staging/fall swarming habitat, daytime arousal	removal of wetland vegetation, water disruption, alteration of water or air flow in/out of hibernacula, human presence & noise	all life stages, all seasons	NA	NA	NA	NLAA	AMMs will limit potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to wetland biota would be temporary and limited & localized and not expected to cause any noticeable decrease in I bat foraging.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - pipe stringing	Human activity	daytime arousal	human presence & noise	all life stages, spring-fall	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - HDD	Alteration of surface water flow, Vegetation removal, Human activity, Wetland disturbance	flooding hibernacula, decreased aquatic invertebrates, alteration of spring staging/fall swarming habitat, daytime arousal	removal of wetland vegetation, water disruption, drilling fluids in wetland, increased water flow into hibernacula, human presence & noise	all life stages	NA	NA	NA	NLAA	AMMs will limit potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to wetland biota would be temporary and limited & localized and not expected to cause any noticeable decrease in I bat foraging.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - conventional bore	Alteration of surface water flow, Vegetation removal, Human activity, Wetland disturbance	flooding hibernacula, decreased aquatic invertebrates, alteration of spring staging/fall swarming habitat, daytime arousal	removal of wetland vegetation, water disruption, drilling fluids in wetland, increased water flow into hibernacula, human presence & noise	all life stages	NA	NA	NA	NLAA	AMMs will limit potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees; impacts to wetland biota would be temporary and limited & localized and not expected to cause any noticeable decrease in I bat foraging.
Operation & Maintenance	Facilities - vehicles, foot traffic, noise, communication facilities	Increased human activity and disturbance	increased daytime arousal	human presence	all life stages, (not hibernation)	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees, nor would it impact foraging bats or bats using travel corridors; NOTE vehicle impacts for all O&M subactivities are evaluated here (i.e., vehicle impacts will not be considered under the remaining O&M subactivities).
Operation & Maintenance	Vegetation Management - mowing	Loss or alteration of forested habitat, Increased human activity and disturbance	decreased foraging & travel efficiency, increased predation	alteration of spring- summer-fall travel corridors, vegetation removal	all life stages, (not hibernation)	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees, nor would it impact foraging bats or bats using travel corridors.
Operation & Maintenance	Vegetation Management - chainsaw and tree clearing	Loss or alteration of forested habitat	alteration of travel corridors, summer roosting/foraging habitat, & spring staging/fall swarming habitat, increased arousal, daytime disturbance, roost abandonment, increased predation due to daytime activity	vegetation removal, human disturbance	all life stages, (not hibernation)	Kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	We expect the majority of effects to I bats from tree clearing will occur in suitable unoccupied summer habitat that I bats use as a travel corridor between hibernacula and roost trees. We anticipate effects will be greatest to pregnant females that expend additional energy to seek alternate travel corridors as a result of tree clearing. If pregnant females dramatically alter their travel corridor they will divert their energetic demands to seek new corridors and will likely give birth to smaller pups, which could decrease pup survival. Tree removal may fragment the habitat such that I bats traveling through the area will be more vulnerable to predation, resulting in injury or death. Tree removal in known use summer habitat will limit roosting options or necessitate roost tree switching when I bats return the following season. Because maternity roost trees are ephemeral, I bats have evolved to relocate roosts at the beginning of the season if needed. Tree removal in unknown use spring staging/fall swarming habitat may remove foraging and roosting areas for a concentrated number of I bats in an abbreviated season (i.e., fall swarming or spring emergence). Clearing trees around hibernacula will decrease foraging and roosting habitat, requiring bats to spend more time searching for food, which could result in bats entering hibernation with less fat reserves or spending less time on social interactions, which could delay breeding. We expect the same effects on I bats from tree removal in known use spring staging/fall swarming habitat as those described for unknown use spring staging/fall swarming habitat. We do not anticipate impacts to bats when they are hibernating based on the protections Karst Mitigation Plan included in Appendix I of the FEIS (FERC 2017).

Table 7. Analysis of effects on Ibat.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (upland)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, or LAA	Comments
Operation & Maintenance	Vegetation Management - herbicides - hand, vehicle mounted, aerial applications	Chemical contamination, Vegetation loss	lethal or sublethal exposure to toxins alteration of travel corridors, summer roosting/foraging habitat, & spring staging/fall swarming habitat	contamination of water & vegetation, loss of herbaceous vegetation	unlikely	NA	NA	NA	NLAA	Implementation of AMMs makes potential impacts to hibernating bats extremely unlikely to occur; the amount of area to be treated that could be Ibat roosting, foraging, or travelling habitat is very small, making potential exposure extremely unlikely to occur. Aerial spraying would not be utilized for invasive species control along the ROW.
Operation & Maintenance	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	Human activity and disturbance, Obstructed hibernacula entrances or vents	loss or alteration of hibernation conditions, hibernacula no longer suitable, daytime arousal	alteration of water or air flow in/out of hibernacula, human presence	all life stages, spring-fall	NA	NA	NA	NLAA	AMMs avoid potential impacts to hibernacula; noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees.
Operation & Maintenance	Vegetation Disposal (upland) - brush pile burning	Human activity and disturbance, Smoke disturbance	smoke inhalation during hibernation, increased arousal, daytime disturbance, roost abandonment, increased predation due to daytime activity	smoke in hibernacula or roosting habitat	all life stages, all seasons	NA	NA	NA	NLAA	The harassment and resultant flushing of bats from smoke caused by burning brush piles in summer is insignificant because the effects are difficult to detect and measure; AMMs will prevent smoke from entering hibernacula in the winter.
Operation & Maintenance	Vegetation Management - tree side trimming by bucket truck or helicopter	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting/foraging habitat, & spring staging/fall swarming habitat, increased arousal, daytime disturbance, roost abandonment, increased predation due to daytime activity	vegetation removal, human disturbance	unlikely	harm, harass	breeding, sheltering	numbers, reproduction	NLAA	AMMs minimize potential effects; vegetation alterations to travel corridors and foraging habitat should be extremely small; Noise and activity levels are anticipated to be so low as to not cause bats to flush from adjacent roost trees or hibernacula, Although some roosting habitat may be taken during side trimming during the winter, we do not expect indirect effects to occur because the majority of the tree and therefore roosting habitat will not be removed. Thus, the effects are insignificant.
Operation & Maintenance	ROW repair, regrading, revegetation (upland) - hand, mechanical	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	unlikely	NA	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on Ibat or their habitat; ROW repairs occur in areas of soil erosion where roost trees are unlikely to occur.
Operation & Maintenance	ROW repair, regrading, revegetation (wetland) - hand, mechanical	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	unlikely	NA	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on Ibat or their habitat; ROW repairs occur in areas of soil erosion where roost trees are unlikely to occur.
Operation & Maintenance	ROW repair, regrading, revegetation - instream stabilization and/or fill	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	unlikely	NA	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on Ibat or their habitat.
Operation & Maintenance	Access Road Maintenance - grading, graveling	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	unlikely	harm, harass	breeding, sheltering	numbers, reproduction	NLAA	AMMs minimize potential effects; vegetation alterations to travel corridors and foraging habitat should be extremely small; Noise and activity levels are anticipated to be so low as to not cause bats to flush from adjacent roost trees or hibernacula; Although some roosting habitat may be taken during side trimming during the winter, we do not expect indirect effects to occur because the majority of the tree and therefore roosting habitat will not be removed. Thus, the effects are insignificant.
Operation & Maintenance	Access Road Maintenance - culvert replacement	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	all life stages	NA	NA	NA	NLAA	The small area and level of impact from these activities is not expected to have noticeable or measurable impacts on Ibat or their habitat.
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - Off ROW Clearing	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human presence	all life stages	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	We expect the majority of effects to Ibats from tree clearing will occur in suitable unoccupied summer habitat that Ibats may use as a travel corridor between hibernacula and roost trees. We anticipate effects will be greatest to pregnant females that expend additional energy to seek alternate travel corridors as a result of tree clearing. If pregnant females dramatically alter their travel corridor they will divert their energetic demands to seek new corridors and will likely give birth to smaller pups, which could decrease pup survival. Tree removal may fragment the habitat such that Ibats traveling through the area will be more vulnerable to predation, resulting in injury or death. Tree removal in known use summer habitat may limit roosting options or necessitate roost tree switching when Ibats return the following season. Because maternity roost trees are ephemeral, Ibats have evolved to relocate roosts at the beginning of the season if needed. Tree removal in unknown use spring staging/fall swarming habitat may remove foraging and roosting areas for a concentrated number of Ibats in an abbreviated season (i.e., fall swarming or spring emergence). Clearing trees around hibernacula will decrease foraging and roosting habitat, requiring bats to spend more time searching for food, which could result in bats entering hibernation with less fat reserves or spending less time on social interactions, which could delay breeding. We expect the same effects on Ibats from tree removal in known use spring staging/fall swarming habitat as those described for unknown use spring staging/fall swarming habitat. We do not anticipate impacts to bats when they are hibernating based on the protections Karst Mitigation Plan included in Appendix I of the FEIS (FERC 2017).
Operation & Maintenance	General Appurtenance and Cathodic Protection Construction - trenching, anode, bell hole	Human disturbance	increased daytime arousal	human presence	all life stages	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees, nor would it impact foraging bats or bats using travel corridors.
Operation & Maintenance	Inspection Activities - ground and aerial	Human activity and Disturbance	daytime arousal	human presence	all life stages, spring-fall	NA	NA	NA	NLAA	Noise created from this activity is anticipated to be insignificant and would not result in the flushing of bats from adjacent roost trees

Table 8. Analysis of effects on Northern long-eared bat.

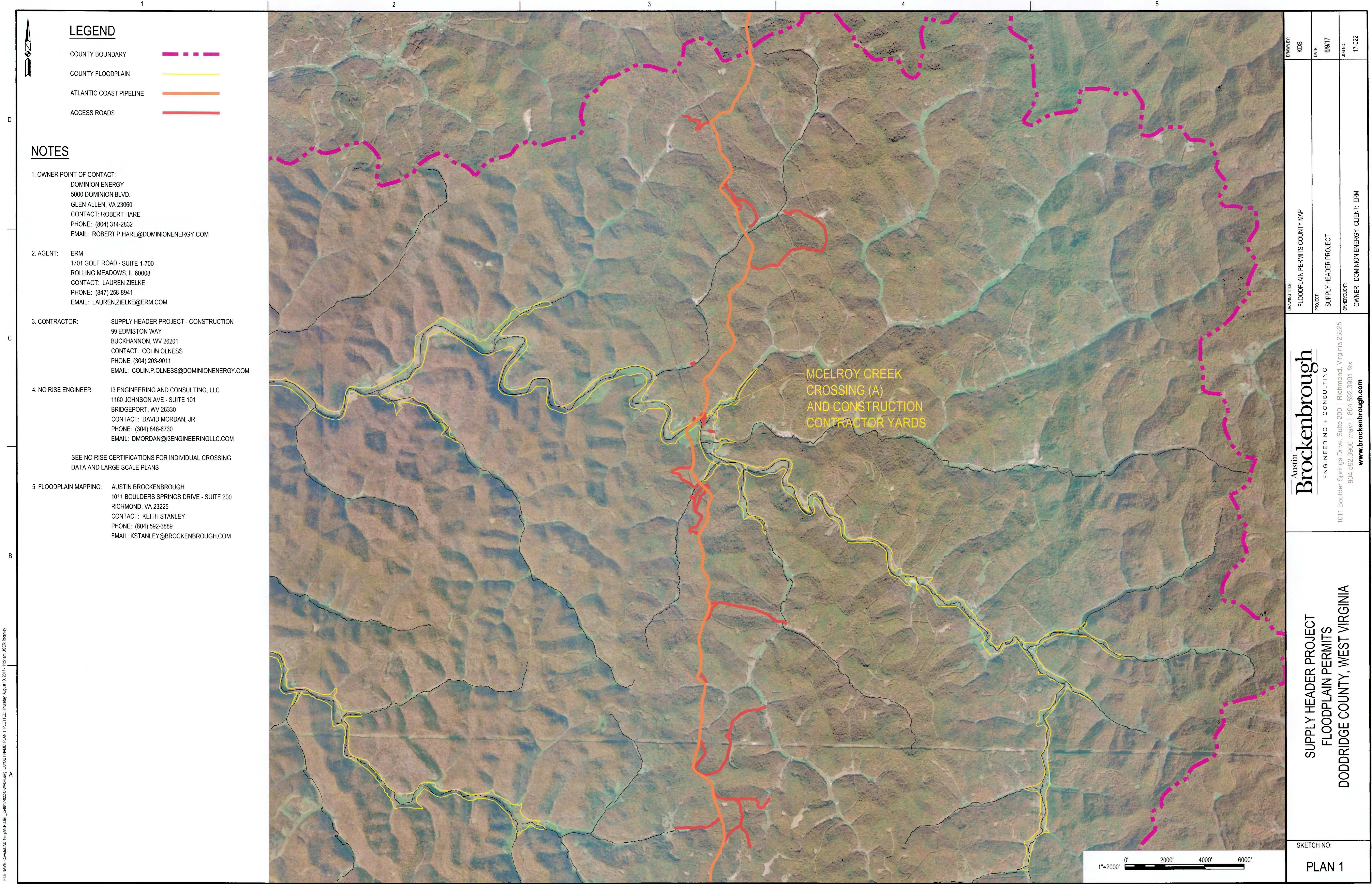
Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need/Affected	Demographic Consequences	NE, NLAA, MA, or LAA	Comments
New Disturbance - Construction	Vehicle Operation and Foot Traffic	Human activity and disturbance	daytime arousal	human presence	all life stages, spring-fall	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Clearing - herbaceous vegetation and ground cover	Clearing of forested habitat, Human activity, and disturbance	alteration of summer roosting habitat, & staging/swarming habitat, daytime arousal	vegetation removal, human presence	all life stages, spring-fall	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Clearing - trees and shrubs	clearing of forested habitat, human activity & disturbance	alteration of summer roosting habitat, & staging/swarming habitat, daytime arousal	vegetation removal, human presence	all life stages, spring-fall	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	Effects from this activity will occur within 1/4-mile of a known hibernacula and take is not exempt by the 4(d) rule. Approximately 0.4 acres of forest clearing will occur along an existing access road. AMMs minimize potential effects; vegetation alterations to travel corridors and foraging habitat should be extremely small; noise created from this activity is covered by the 4d rule. The flushing of bats from roost trees as they are being cut during daylight hours would increase the likelihood that the bats would become prey for predators.
New Disturbance - Construction	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	Human activity and disturbance, Obstructed hibernacula entrances or vents	loss or alteration of hibernation conditions, hibernacula no longer suitable, daytime arousal	alteration of water or air flow in/out of hibernacula, human presence	all life stages, all seasons	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Vegetation Disposal (upland) - brush pile burning	Human activity and disturbance, Obstructed hibernacula entrances or vents	loss or alteration of hibernation conditions, hibernacula no longer suitable, daytime arousal	alteration of water or air flow in/out of hibernacula, human presence	all life stages, all seasons	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Vegetation Clearing - tree side trimming by bucket truck or helicopter	human activity	daytime arousal	human presence & noise	all life stages, all seasons	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Grading, erosion control devices	alteration of water flow, vegetation removal; human activity	altered water flow & humidity in hibernacula	altered water flow	all life stages, all seasons	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Trenching (digging, blasting, dewatering, open trench, sedimentation)	human activity, ground disturbance, instream & riparian disturbance, temporary dewatering	decreased aquatic invertebrates, daytime arousal	instream sedimentation & water flow disruption, human presence & noise	all life stages, all seasons	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Pipe Stringing - bending, welding, coating, padding and backfilling	human activity	daytime arousal	human presence & noise	all life stages, spring-fall	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Hydrostatic Testing (water withdrawal and discharge)	withdrawal/discharge of water into aquatic habitats; human activity	decreased aquatic invertebrates; daytime arousal	water alterations; human presence & noise	all life stages, all seasons	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Regrading and Stabilization - restoration of corridor	human activity & disturbance, obstructed cave entrances or vents	loss or alteration of hibernation conditions, daytime arousal	alteration of water or air flow in/out of caves, human presence	all life stages, all seasons	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Compression Facility, noise	noise disturbance	daytime arousal	human presence	all life stages, spring-fall	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Communication Facility - guy lines, noise, lights	human activity and facilities	daytime arousal	human presence	all life stages, spring-fall	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - grading, graveling	alteration of surface water flow, vegetation removal, human activity	altered water flow & humidity in hibernacula, alteration of summer roosting habitat, & staging/swarming habitat, daytime arousal	removal of forested habitat, altered surface water flow into caves, human presence	all life stages, spring-fall	kill, harm, harass	breeding, sheltering	numbers, reproduction	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - culvert installation	tree removal, loss or alteration of forested habitat, human disturbance	alteration of summer roosting habitat, & staging/swarming habitat, increased daytime arousal	vegetation removal, human presence	all life stages, spring-fall	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Access Roads - upgrading existing roads, new roads temp and permanent - tree trimming and tree removal	Clearing of forested habitat, Human activity and disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, daytime arousal	vegetation removal, human presence	all life stages, spring-fall	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	Effects from this activity will occur within 1/4-mile of a known hibernacula and take is not exempt by the 4(d) rule. Approximately 0.4 acres of forest clearing will occur along an existing access road. AMMs minimize potential effects; vegetation alterations to travel corridors and foraging habitat should be extremely small; noise created from this activity is covered by the 4d rule. The flushing of bats from roost trees as they are being cut during daylight hours would increase the likelihood that the bats would become prey for predators.
New Disturbance - Construction	Stream Crossings, wet open cut ditch	Tree removal, Loss or alteration of forested habitat, Human disturbance, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream sedimentation & water flow disruption, human presence & noise	all life stages, all seasons	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Stream Crossings, flume	Tree removal, Loss or alteration of forested habitat, Human disturbance, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream sedimentation & water flow disruption, human presence & noise	all life stages, all seasons	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Stream Crossings, dam & pump	Tree removal, Loss or alteration of forested habitat, Human disturbance, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream sedimentation & water flow disruption, human presence & noise	all life stages, all seasons	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Stream Crossings, cofferdam	Tree removal, Loss or alteration of forested habitat, Human disturbance, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream sedimentation & water flow disruption, human presence & noise	all life stages, all seasons	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Stream Crossings, Horizontal Directional Drill (HDD)	Alteration of surface water flow, Vegetation removal, Human activity, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream drilling fluids, human presence & noise	all life stages, all seasons	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.

Table 8. Analysis of effects on Northern long-eared bat.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, NLAA, MA, or LAA	Comments
New Disturbance - Construction	Stream Crossings, conventional bore	Alteration of surface water flow, Vegetation removal, Human activity, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream drilling fluids, human presence & noise	all life stages	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Stream Crossings, direct pipe	Alteration of surface water flow, Vegetation removal, Human activity, Instream and riparian disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal, decreased aquatic invertebrates	vegetation removal, instream drilling fluids, human presence & noise	all life stages	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Stream Equipment Crossing Structures	Human activity, Instream and riparian disturbance	increased daytime arousal, decreased aquatic invertebrates	instream sedimentation & changes in water flow, human presence & noise	all life stages	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - clearing	Clearing of forested habitat, Human activity and disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, daytime arousal	vegetation removal, human presence	all life stages, spring-fall	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	Effects from this activity will occur within 1/4-mile of a known hibernacula and take is not exempt by the 4(d) rule. Approximately 0.4 acres of forest clearing will occur along an existing access road. Noise created from clearing of ROW is covered by the 4d rule; the flushing of bats from roost trees as they are being cut during daylight hours would increase the likelihood that the bats would become prey for predators.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - tree side trimming	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting/foraging habitat, & spring staging/fall swarming habitat, increased arousal, daytime disturbance, roost abandonment, increased predation due to daytime activity	vegetation removal, human disturbance	unlikely	kill, harm, harass	breeding, sheltering	numbers, reproduction	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - grading, trenching, regrading	alteration of surface water flow; vegetation removal, human activity; wetland disturbance	flooding hibernacula; decreased aquatic invertebrates; alteration of staging/swarming habitat; daytime arousal	removal of wetland vegetation; water disruption; alteration of water or air flow in/out of caves; human presence & noise	all life stages; all seasons	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - pipe stringing	human activity	daytime arousal	human presence & noise	all life stages; spring-fall	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - HDD	Alteration of surface water flow, Vegetation removal, Human activity, Wetland disturbance	flooding hibernacula, decreased aquatic invertebrates, alteration of spring staging/fall swarming habitat, daytime arousal	removal of wetland vegetation, water disruption, drilling fluids in wetland, increased water flow into hibernacula, human presence & noise	all life stages	none expected	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
New Disturbance - Construction	Crossings, wetlands and other water bodies (non-riparian) - conventional bore	Alteration of surface water flow, Vegetation removal, Human activity, Wetland disturbance	flooding hibernacula, decreased aquatic invertebrates, alteration of spring staging/fall swarming habitat, daytime arousal	removal of wetland vegetation, water disruption, drilling fluids in wetland, increased water flow into hibernacula, human presence & noise	all life stages	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Facilities - vehicles, foot traffic, noise, communication facilities	Increased human activity and disturbance	increased daytime arousal	human presence	all life stages, (not hibernation)	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Vegetation Management - mowing	Loss or alteration of forested habitat, Increased human activity and disturbance	decreased foraging & travel efficiency, increased predation	alteration of spring- summer-fall travel corridors, vegetation removal	all life stages, (not hibernation)	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Vegetation Management - chainsaw and tree clearing	Loss or alteration of forested habitat	alteration of travel corridors, summer roosting/foraging habitat, & staging/swarming habitat, increased arousal, daytime disturbance, roost abandonment, increased predation due to daytime activity	vegetation removal, human disturbance	all life stages, (not hibernation)	Kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	Effects from this activity will occur within 1/4-mile of a known hibernacula and take is not exempt by the 4(d) rule. Approximately 0.4 acres of forest clearing will occur along an existing access road. AMMs minimize potential effects; vegetation alterations to travel corridors and foraging habitat should be extremely small, noise created from this activity is covered by the 4d rule. The flushing of bats from roost trees as they are being cut during daylight hours would increase the likelihood that the bats would become prey for predators.
Operation & Maintenance	Vegetation Management - herbicides - hand, vehicle mounted, aerial applications	Chemical contamination, Vegetation loss	lethal or sublethal exposure to toxins alteration of travel corridors, summer roosting/foraging habitat, & spring staging/fall swarming habitat	contamination of water & vegetation, loss of herbaceous vegetation	unlikely	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Vegetation Disposal (upland) - dragging, chipping, hauling, piling, stacking	Human activity and disturbance, Obstructed hibernacula entrances or vents	loss or alteration of hibernation conditions, hibernacula no longer suitable, daytime arousal	alteration of water or air flow in/out of hibernacula, human presence	all life stages, spring-fall	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Vegetation Disposal (upland) - brush pile burning	Human activity and disturbance, Smoke disturbance	smoke inhalation during hibernation, increased arousal, daytime disturbance, roost abandonment, increased predation due to daytime activity	smoke in hibernacula or roosting habitat	all life stages, all seasons	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Vegetation Management - tree side trimming by bucket truck or helicopter	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting/foraging habitat, & spring staging/fall swarming habitat, increased arousal, daytime disturbance, roost abandonment, increased predation due to daytime activity	vegetation removal, human disturbance	unlikely	harm, harass	breeding, sheltering	numbers, reproduction	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	ROW repair, regrading, revegetation (upland) - hand, mechanical	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	unlikely	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.

Table 8. Analysis of effects on Northern long-eared bat.

Pipeline Activity	Subactivity	Environmental Impact or Threat	Stressor	Stressor Pathway (optional)	Exposure (Resource Affected)	Range of Response	Conservation Need Affected	Demographic Consequences	NE, SLAA, MA, or LAA	Comments
Operation & Maintenance	ROW repair, regrading, revegetation (wetland) - hand, mechanical	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	unlikely	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	ROW repair, regrading, revegetation - instream stabilization and/or fill	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	unlikely	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Access Road Maintenance - grading, graveling	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	unlikely	harm, harass	breeding, sheltering	numbers, reproduction	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Access Road Maintenance - culvert replacement	Tree removal, Loss or alteration of forested habitat, Human disturbance	alteration of summer roosting habitat, & spring staging/fall swarming habitat, increased daytime arousal	vegetation removal, human disturbance	all life stages	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	General Appurtenance and Catholic Protection Construction - Off-ROW Clearing	tree removal, loss or alteration of forested habitat, human disturbance	alteration of summer roosting habitat, & staging/swarming habitat, increased daytime arousal	vegetation removal, human presence	all life stages	kill, harm, harass	breeding, sheltering	numbers, reproduction	LAA	Effects from this activity will occur within 1/4-mile of a known hibernacula and take is not exempt by the 4(d) rule. Approximately 0.4 acres of forest clearing will occur along an existing access road. AMMs minimize potential effects; vegetation alterations to travel corridors and foraging habitat should be extremely small; noise created from this activity is covered by the 4d rule. The flushing of bats from roost trees as they are being cut during daylight hours would increase the likelihood that the bats would become prey for predators.
Operation & Maintenance	General Appurtenance and Catholic Protection Construction - trenching, anode, bell hole	Human disturbance	increased daytime arousal	human presence	all life stages	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.
Operation & Maintenance	Inspection Activities - ground and aerial	Human activity and Disturbance	daytime arousal	human presence	all life stages, spring-fall	NA	NA	NA	MA	These effects have been previously addressed in the Service's programmatic biological opinion implementing the final 4(d) rule dated January 5, 2016.



LEGEND

- COUNTY BOUNDARY
- COUNTY FLOODPLAIN
- ATLANTIC COAST PIPELINE
- ACCESS ROADS

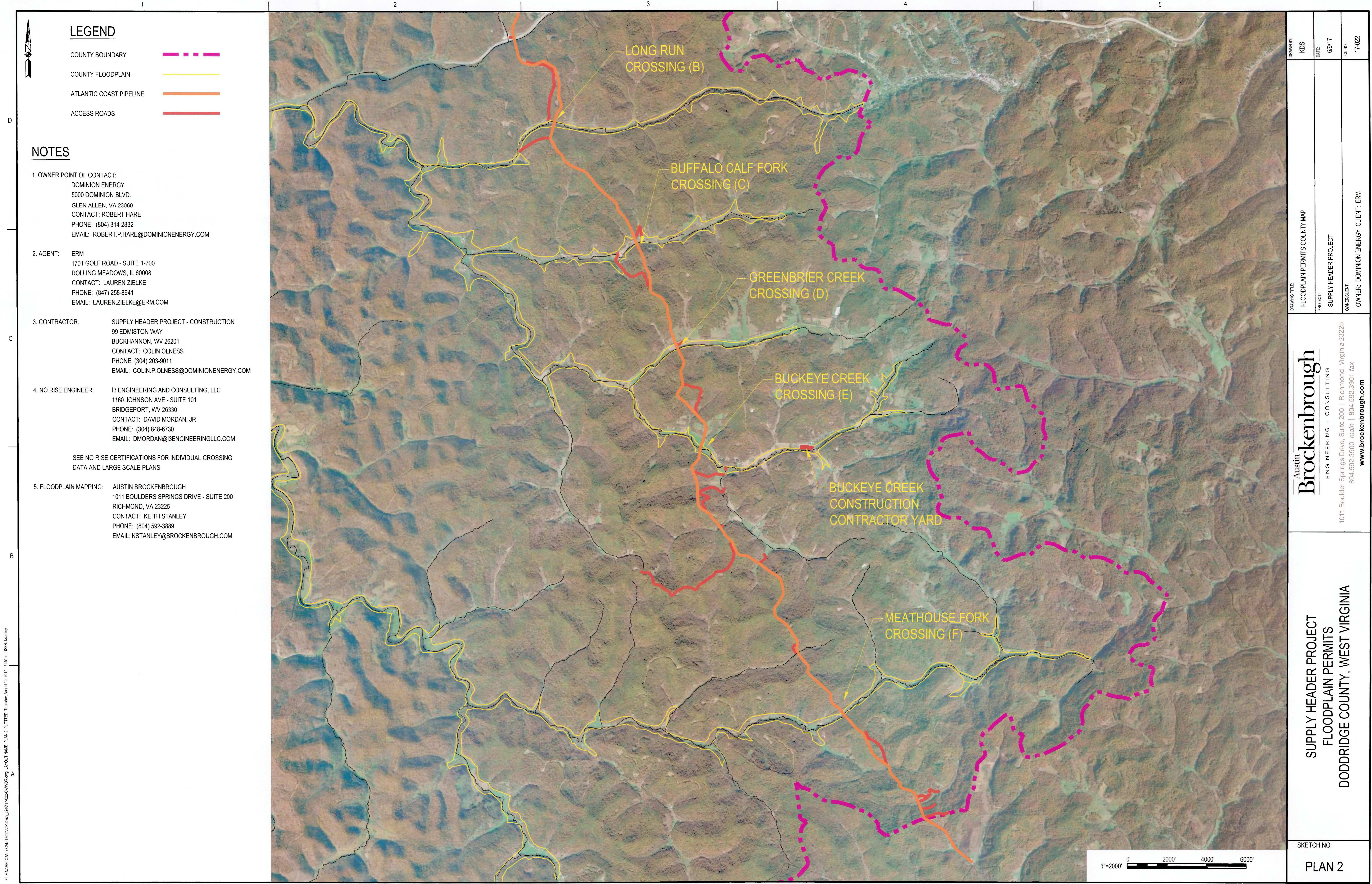
NOTES

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 DATA AND LARGE SCALE PLANS
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DRAWN BY: KDS	PROJECT: SUPPLY HEADER PROJECT	FLOODPLAIN PERMITS COUNTY MAP	SKETCH NO: PLAN 1
DATE: 6/9/17	OWNER/CLIENT: OWNER: DOMINION ENERGY CLIENT: ERM		
1011 Boulder Springs Drive, Suite 200 Richmond, Virginia 23225 804-592-3900 main 804-592-3901 fax www.brockenbrough.com			

FILE NAME: C:\msdoad\Temp\A\Public_56817202-2\WVBR-Ang_LAYOUT\NAME PLAN 1_PLOTTED: Thursday, August 10, 2017 - 11:51am USER: tashley



LEGEND

- COUNTY BOUNDARY - - - -
- COUNTY FLOODPLAIN —
- ATLANTIC COAST PIPELINE —
- ACCESS ROADS —

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FILE NAME: C:\MapCAD Temp\MapCAD\Buckh..._528611722-C\WVDR_AWG_LAYOUT\NAME_PLANS_2_PLOTTED: Thursday, August 10, 2017 - 11:51 am USER: keasley

DRAWING TITLE: FLOODPLAIN PERMITS COUNTY MAP	DRAWN BY: KDS	DATE: 6/9/17	JOB NO: 17-022
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SUPPLY HEADER PROJECT FLOODPLAIN PERMITS DODDRIDGE COUNTY, WEST VIRGINIA			
SKETCH NO: PLAN 2			

