



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: #20-565

Date Approved: March 23, 2020 Expires: March 23, 2021

Issued to: Antero Resources Corporation POC: Jeff McCauley

Company Address: 535 White Oaks Blvd. Bridgeport, WV 26330

Project Address: Arnolds Creek/Punkin Center Roads

Firm: 54017C0120C

**Lat/Long: 39.277259N, -80.811072W
39.256303N, -80.791810W**

Purpose of Development: Access Road & Slip Repairs

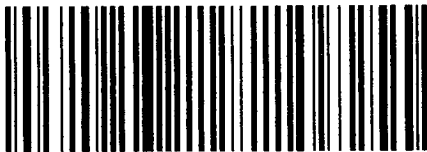
Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)

Date: March 23, 2020

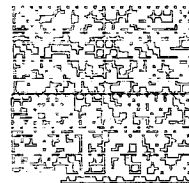
For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.2631, or via email at
doddridgecountyfpm@gmail.com
118 East Court Street; West Union, WV 26456

CERTIFIED MAIL®

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



7018 3090 0001 0402 5635



HASLER

\$006.70⁰⁰

02/21/2020 ZIP 26456
012E14643162

US POSTAGE

**Glade Avon & Diana L. Perrine
2499 Arnolds Creek Road
West Union, WV 26456**

2/24
2-5

NIXIE 258 DE 1 0003/18/20

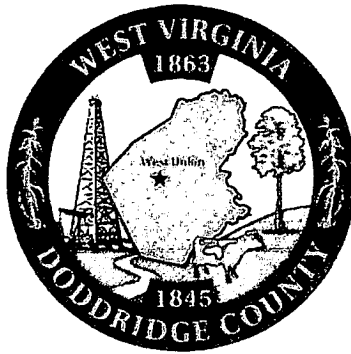
RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

UTFK1: 9352200098

26456201205 UNCL
264562012

BC: 26456201205 *0271-07875-21-44






Doddridge County Floodplain Permits


(Week of February 24, 2020)

Please take notice that on the (20th) of (February), 2020, (Antero Resources) filed an application for a Floodplain Permit (#20-565) to develop land located at or about (Arnolds Creek Road and Punkin Center Road); Coordinates: 39.277259, -80.811072/39.256303, -80.791810. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (March 23, 2020) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. This project is for roadway improvements to Arnolds Creek Rd and Punkin Center Rd


GEORGE C. EIDEL, CFM

Doddridge County Floodplain Manager

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ 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. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Shirley Cutright</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery 2-25-20</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>1. Article Addressed to:</p> <p style="text-align: center;">Shirley Cutright 50 Hummingbird Drive West Union, WV 26456</p> <div style="text-align: center;">  9590 9402 4783 8344 2628 27 </div>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<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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<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)																	
<p>2. Article Number (Transfer from service label)</p>																	
PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt																	

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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,

February 21, 2020

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 cursive script, appearing to read 'George Eidel'.

George Eidel, CFM, OEM Director/Floodplain Manager

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:

**Richard Lee Leggett
526 Punkin Center Road
West Union, WV 26456**



9590 9402 4783 8344 2628 34

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Richard Leggett* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

2-26-26

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) | |

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

Domestic Return Receipt

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:

**Marvin B. & Candi E. Rollins
P.O. Box 56
West Union, WV 26456**



9590 9402 4783 8344 2627 11

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Marvin B. & Candi E. Rollins* 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) | |

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

Domestic Return Receipt

COPY

COPY

COPY

COPY

KLEINFELDER OFFICE CHECKING
550 WEST C STREET SUITE 1200
SAN DIEGO, CA 92101

COPY

DATE 2/19/2020

19-10/1250

PAY TO THE ORDER OF Doddridge County Commission

Six-thousand seven-hundred thirty-seven

\$ 6,737.83
83/100 DOLLARS

usbank.

COPY

For Flood Creek Rd. (CR11) Floodplain Permit

Samson

⑈011108⑈ ⑆125000105⑆ 157519889794⑈

COPY

COPY

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.

Jessie Vanscoy
1393 Punkin Center Road
West Union, WV 26456



2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature 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

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- Complete items 1, 2, and 3.
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- Attach this card to the back of the mailpiece, or on the front if space permits.

Kenneth N. Hughes
592 Bedford Drive
Charles Town, WV 25414



2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature 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)
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 - Registered Mail™
 - Registered Mail Restricted Delivery
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PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

7018 3090 0001 0402 5727

7018 3090 0001 0402 5710

7018 3090 0001 0402 5673

7018 3090 0001 0402 5734

7018 3090 0001 0402 5659

7018 3090 0001 0402 5680

7018 3090 0001 0402 5666

FLOODPLAIN PERMIT #20-565

Antero Resources, Arnolds Ck/Punkin Cntr Road Improvement 39.277259,-80.811072/39.256303,-80.791810

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	2/20/2020	
US ARMY CORP. ENGINEERS (USACE)		Pending
US FISH & WILDLIFE SERVICES (USFWS)	12/20/2019	
WV DEPT. NATURAL RESOURCES (WVDNR)	12/20/2019	
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)	12/20/2019	
STATE HISTORIC & PRESERVATION OFFICE (SHPO)		Pending
OFFICE of LAND & STREAM (OLS)	12/20/2019	
DATE OF COMMISSION READING	3/3/2020	
DATE AVAILABLE TO BE GRANTED	3/23/2020	
PERMIT GRANTED		
COMPLETE		

7018 3090 0001 0402 5635

7018 3090 0001 0402 5697

7018 3090 0001 0402 5703

7018 3090 0001 0402 5628

7018 3090 0001 0402 5741

7018 3090 0001 0402 5581

7018 3090 0001 0402 5611

7018 3090 0001 0402 5604

7018 3090 0001 0402 5642

7018 3090 0001 0402 5567

7018 3090 0001 0402 5598

7018 3090 0001 0402 5550

7018 3090 0001 0402 5543

7018 3090 0001 0402 5574

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.
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**Mark B. Smith
P.O. Box 213
Smithburg, WV 26436**



9590 9402 4783 8344 2629 02

2. Article Number (Transfer from service label)

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
Mark B. Smith

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

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- 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:

**Dennis D. Hayes
5710 MacCorkle Avenue, SE
Charleston, WV 25304**



9590 9402 4783 8344 2627 97

2. Article Number (Transfer from service label)

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
Dennis D. Hayes

B. Received by (Printed Name) C. Date of Delivery
Dennis D. Hayes

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
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 - Signature Confirmation Restricted Delivery

Domestic Return Receipt



Doddridge County Floodplain Permits

(Week of February 24, 2020)

Please take notice that on the **(20th) of (February), 2020, (Antero Resources)** filed an application for a Floodplain Permit **(#20-565)** to develop land located at or about **(Arnolds Creek Road and Punkin Center Road); Coordinates: 39.277259, -80.811072/39.256303, -80.791810**. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by **(March 23, 2020)** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. **This project is for roadway improvements to Arnolds Creek Rd and Punkin Center Rd**


GEORGE C. EIDEL, CFM

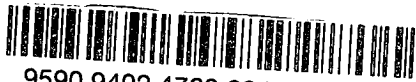
Doddridge County Floodplain Manager

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1. Article Addressed to:

Dennis L. & Sonya G. Hayes
164 Punkin Center Road
West Union, WV 26456



9590 9402 4783 8344 2628 10

2. Article Number (Transfer from service label)

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
Sonya Hayes Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
 2/24

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

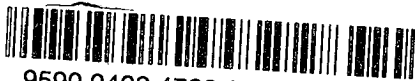
Domestic Return Receipt

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ONG Transmission Corporation
c/o Dominion Transmission
5 Liberty Avenue Mail Drop 18-01
Pittsburgh, PA 15221



9590 9402 4783 8344 2627 66

2. Article Number (Transfer from service label)

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
Scott Urie Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
 SCOTT URIE 2/24/20

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

Domestic Return Receipt



51 Dutilh Road
Suite 240
Cranberry Township, PA
16066
o | 724.772.7072
f | 724.772.7079

TRANSMITTAL

To:

Mr. George Eidel
Floodplain Manager
105 Court Street, Suite #3
West Union, WV 26456

Date: February 19, 2020

2020 FEB 19 AM 10:58

cc: Project File

Subject:

Floodplain Permit Application
Antero Resources Corporation
Arnolds Creek Road (CR11) Punkin Center Road (CR 11/4) Roadway Improvements
Doddridge County, West Virginia



Attached



Under separate cover

Via:

- Messenger/Courier
- First Class Mail
- FedEx
- United Parcel
- DHL
- Lone Star Overnight
- Freight
- Other

Transmitted:

- As Requested
- For Approval
- For Your Use
- For Review & Comment

Remarks:

Enclosed please find the following documents to facilitate your review of the above referenced application:

- Attachment A – Floodplain Application
- Attachment B – Table of Adjacent Property Owners
- Attachment C – Compliance Certificate
- Attachment D – Permitting & Coordination

The check for fee is \$6,737.83. The site budget within the Floodplain is \$1,247,566.00 bringing the permit fee to \$6,737.83.

By: **Matthew Albright**
Project Manager

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

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



9590 9402 4783 8344 2628 41

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Mary Farr-Secrist Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

2/24

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

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1. Article Addressed to:

**Loren K. & Larry N. Smith
1093 Punkin Center Road
West Union, WV 26456**



9590 9402 4783 8344 2628 96

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Loren Smith 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



ATTACHMENT A
FLOODPLAIN APPLICATION

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:

**Michael Wilkinson
878 Punkin Center Road
West Union, WV 26456**



9590 9402 4783 8344 2628 58

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Michael Wilkinson* Agent Addressee

B. Received by (Printed Name)

C. Date of Delivery

2/21

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) | |

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

Domestic Return Receipt

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:

**Loren K. & Larry N. Smith
1093 Punkin Center Road
West Union, WV 26456**



9590 9402 4783 8344 2627 28

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Loren Smith* 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) | |

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

Domestic Return Receipt



Permit# 20-565
Project Arnolds Creek/Punkin
Center Road ^{Name:} Improvement
Permittees Name: Antero Resources

313 20 11:53AM

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. The permit will expire if no work is commenced within six months of issuance.
5. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
6. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
7. 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 _____

[Handwritten Signature]

DATE 02/18/2020

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:

Tim J. & Dawn C. Friello
109 Log Cabin Hill Road
West Union, WV 26456



9590 9402 4783 8344 2627 35

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

 Agent Addressee

B. Received by (Printed Name)

Tim Friello

C. Date of Delivery

2-25-20

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) | |

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

Domestic Return Receipt

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 L. Nesler
856 Arnolds Creek Road
West Union, WV 26456



9590 9402 4783 8344 2627 73

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) | |

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

Domestic Return Receipt

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: Antero Resources Corporation		
Corporate Mailing Address: 1615 Wynkoop Street		
City: Denver	State: CO	Zip: 80202
Corporate Point of Contact (POC): N/A		
Corporate POC Title: N/A		
Corporate POC Primary Phone: N/A		
Corporate POC Primary Email: N/A		
Corporate FEIN: N/A	Corporate DUNS: N/A	
Corporate Website: www.anteroresources.com		
Local Mailing Address: 535 White Oaks Blvd		
City: Bridgeport	State: WV	Zip: 26330
Local Project Manager (PM): Jeff McCauley		
Local PM Primary Phone: 304-842-4255		
Local PM Secondary Phone: N/A		
Local PM Primary Email: jmccauley@anteroresources.com		
Person Filing Application: Tyler Streb		
Applicant Title: Environmental Specialist		
Applicant Primary Phone: 303-357-7377		
Applicant Secondary Phone: N/A		
Applicant Primary Email: tstreb@anteroresources.com		

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:

Eleanor Meyer
19 Heath Place
Garden City, NY 11530



9590 9402 4783 8344 2627 80

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

4-22

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

Signature waived due
 to Covid 19

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) | |

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

Domestic Return Receipt

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:

Drexelene Perrine
670 Punkin Center Road
West Union, WV 26456



9590 9402 4783 8344 2627 42

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

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

3. Service Type

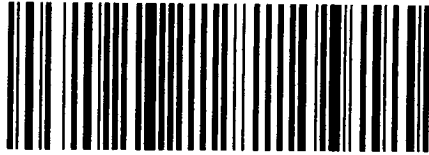
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered 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) | |

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

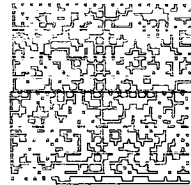
Domestic Return Receipt

CERTIFIED MAIL®

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



7018 3090 0001 0402 5697



HASLER

\$006.70⁰⁰

02/21/2020 ZIP 26456
012E14643162

US POSTAGE

**Drexelene Perrine
670 Punkin Center Road
West Union, WV 26456**

2/24

NIXIE

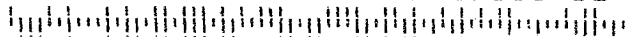
236 DE 1

0003/18/20

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

2645646295 **UNC**
26456 > 2012

BC: 26456201205 *0271-07869-21-44



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



Dear Sir or Ma'am,

February 21, 2020

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 cursive script, appearing to read "George Eidel".

George Eidel, CFM, OEM Director/Floodplain Manager

7018 3090 0000 0402 5543

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee
 \$ 3.45

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
 \$.50

Total Postage and Fees
 \$ 6.70

Sent To
 Mark B. Smith
 Street and Apt. No., or PO Box No.
 P.O. Box 213
 City, State, ZIP+4®
 Smithburg, WV 26436 20-565

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

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

Postage
 \$.50

Total Postage and Fees
 \$ 6.70

Sent To
 Kenneth N. Hughes
 Street and Apt. No., or PO Box No.
 592 Bedford Dr.
 City, State, ZIP+4®
 Charles Town, WV 25414 20-565

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

7018 3090 0000 0402 5550

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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
 \$.50

Total Postage and Fees
 \$ 6.70

Sent To
 Loren K. & Larry N. Smith
 Street and Apt. No., or PO Box No.
 1093 Punkin Center Rd.
 City, State, ZIP+4®
 West Union, WV 26456 20-565

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

7018 3090 0000 0402 5550

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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
 \$.50

Total Postage and Fees
 \$ 6.70

Sent To
 John Trent & John Trent, Jr.
 Street and Apt. No., or PO Box No.
 122 John Trent Rd.
 City, State, ZIP+4®
 Salem, WV 26426 20-565

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

7018 3090 0000 0402 5550

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Certified Mail Fee
 \$ 3.45

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
 \$.50

Total Postage and Fees
 \$ 6.70

Sent To
 Michael Wilkinson
 Street and Apt. No., or PO Box No.
 878 Punkin Center Rd.
 City, State, ZIP+4®
 West Union, WV 26456 20-565

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

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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
 \$.50

Total Postage and Fees
 \$ 6.70

Sent To
 Mary Farr-Scerist
 Street and Apt. No., or PO Box No.
 1884 Punkin Center Rd.
 City, State, ZIP+4®
 West Union, WV 26456 20-565

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



Doddridge County Floodplain Permits

(Week of February 24, 2020)

Please take notice that on the **(20th) of (February), 2020, (Antero Resources)** filed an application for a Floodplain Permit **(#20-565)** to develop land located at or about **(Arnolds Creek Road and Punkin Center Road); Coordinates: 39.277259, -80.811072/39.256303, -80.791810**. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by **(March 23, 2020)** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. **This project is for roadway improvements to Arnolds Creek Rd and Punkin Center Rd**


GEORGE C. EIDEL, CFM

Doddridge County Floodplain Manager

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

Postage
 \$.50

Total Postage and Fees
 \$ 6.90

Sent To
 Richard Lee Leggett
 Street and Apt. No., or PO Box No.
 528 Pink Center Rd.
 City, State, ZIP+4®
 West Union, WV 26456 20-565

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

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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
 \$.50

Total Postage and Fees
 \$ 6.90

Sent To
 Dennis L. & Sonya G. Hayes
 Street and Apt. No., or PO Box No.
 164 Pink Center Rd.
 City, State, ZIP+4®
 West Union, WV 26456 20-565

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

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Certified Mail Fee
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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
 \$.50

Total Postage and Fees
 \$ 6.90

Sent To
 Denny D Hayes
 Street and Apt. No., or PO Box No.
 5910 MacCorkle Ave. SE
 City, State, ZIP+4®
 Charleston, WV 25304 20-565

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

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Certified Mail Fee
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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
 \$.50

Total Postage and Fees
 \$ 6.90

Sent To
 Shirley Cutright
 Street and Apt. No., or PO Box No.
 50 Hummingbird Dr.
 City, State, ZIP+4®
 West Union, WV 26456 20-565

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

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Certified Mail Fee
 \$ 2.45

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
 \$.50

Total Postage and Fees
 \$ 6.90

Sent To
 Glade Avon's Diana L. Perrine
 Street and Apt. No., or PO Box No.
 2499 Arnold's Creek Rd.
 City, State, ZIP+4®
 West Union, WV 26456 20-565

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

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 \$ 3.45

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
 \$.50

Total Postage and Fees
 \$ 6.90

Sent To
 Eleanor Meyer
 Street and Apt. No., or PO Box No.
 19 Heath Place
 City, State, ZIP+4®
 Garden City, NY 11530 20565

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

Doddridge County Commercial/Industrial Floodplain Development Permit Application

Project Narrative:

Describe in detail the proposed development including project name/title, type of development, estimated start and completion timeline, and its potential impact on the floodplain. Use additional copies of this page as needed.

Project Narrative:
Antero Resources Corporation (Antero) is proposing roadway improvements to Arnolds Creek Road (CR 11) and Punkin Center Road (CR 11/4) totaling approximately 2.07-miles of road length. The roadway improvements will support larger vehicle traffic near the town of West Union in Doddridge County, West Virginia (WV) and is known as the Arnolds Creek Road (CR 11) Punkin Center Road (CR 11/4) Roadway Improvements (Roadway Improvements). The proposed Roadway Improvements will result in a limit of disturbance (LOD) of approximately 8.09 acres, of which 5.93 acres (73.3%) is located within the limits of a regulated floodplain. As a result, 2 abbreviated hydraulic studies were performed in HEC-RAS to analyze the potential for adverse effects to the floodplains of Arnold Creek and Left Fork Arnold Creek (Attachment C). The northwest terminus of the site is located at 39.277259, -80.811072 and the southeast terminus is located at 39.256303, -80.791810. The Roadway Improvements will utilize the existing county roads and will support access to current and future Antero-operated sites. The Roadway Improvements will consist of but are not limited to culvert replacements, culvert installation, rip-rap inlet and outlet protection, culvert cleaning, stream relocation, stream stabilization, construction workspaces, and temporary erosion and sediment controls.

9995 2040 0402 5675
7018 3090 0001 0402 8107

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Certified Mail Fee
 \$ **3.45**

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
 \$ **.50**

Total Postage and Fees
 \$ **6.10**

Sent To
Mary L. Nesler

Street and Apt. No., or PO Box No.
856 Arnolds Creek Rd.

City, State, ZIP+4®
West Union, WV 26456 20565

USPS 26456-9998
 FEB 21 2020
 Postmark Here

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

5795 2040 0402 5675
7018 3090 0001 0402 8107

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Certified Mail Fee
 \$ **3.45**

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
 \$ **.50**

Total Postage and Fees
 \$ **6.10**

Sent To
CNG Transmission Corp. c/o Dominion

Street and Apt. No., or PO Box No.
625 Liberty Ave. Mail Drop A-01

City, State, ZIP+4®
Pittsburgh, PA 15221 20565

USPS 26456-9998
 FEB 21 2020
 Postmark Here

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

0895 2040 0402 5675
7018 3090 0001 0402 8107

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
 \$ **3.45**

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
 \$ **.50**

Total Postage and Fees
 \$ **6.10**

Sent To
Anthony A. & Linda F. Ervolina

Street and Apt. No., or PO Box No.
17 Arnolds Creek Rd.

City, State, ZIP+4®
West Union, WV 26456 20565

USPS 26456-9998
 FEB 21 2020
 Postmark Here

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

5795 2040 0402 5675
7018 3090 0001 0402 8107

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OFFICIAL USE

Certified Mail Fee
 \$ **3.45**

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
 \$ **.50**

Total Postage and Fees
 \$ **6.10**

Sent To
Develene Parrine

Street and Apt. No., or PO Box No.
670 Parkin Center Rd.

City, State, ZIP+4®
West Union, WV 26456 20565

USPS 26456-9998
 FEB 21 2020
 Postmark Here

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

0705 2040 0402 5703
7018 3090 0001 0402 8107

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Certified Mail Fee
 \$ **3.45**

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
 \$ **.50**

Total Postage and Fees
 \$ **6.10**

Sent To
Tim J. & Dawn C. Friello

Street and Apt. No., or PO Box No.
109 Log Cabin Hill Rd.

City, State, ZIP+4®
West Union, WV 26456 20565

USPS 26456-9998
 FEB 21 2020
 Postmark Here

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

5727 2040 0402 5727
7018 3090 0001 0402 8107

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Certified Mail Fee
 \$ **3.45**

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
 \$ **.50**

Total Postage and Fees
 \$ **6.10**

Sent To
Marvin B. & Candie E. Rollins

Street and Apt. No., or PO Box No.
P.O. Box 56

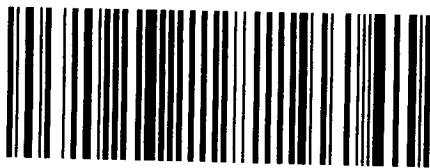
City, State, ZIP+4®
West Union, WV 26456 20565

USPS 26456-9998
 FEB 21 2020
 Postmark Here

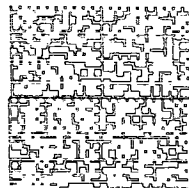
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

CERTIFIED MAIL®

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



7018 3090 0001 0402 5574



HASLER

\$006.70⁰

02/21/2020 ZIP 26456
012E14643162

US POSTAGE

John S. Trent
c/o John Trent, Jr.
212 John Trent Road
Salem, WV 26426

NIXIE 250 DE 1 0003/26/20

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

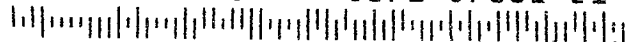
NSNK1: 9352200098

UNC

BC: 26456201205

*0271-07881-21-44

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



2/24/20 3849

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

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 S. Trent
c/o John Trent, Jr.
212 John Trent Road
Salem, WV 26426



9590 9402 4783 8344 2628 65

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- 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,

February 21, 2020

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development/project identified by the following page.

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

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

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

George Eidel, CFM, OEM Director/Floodplain Manager

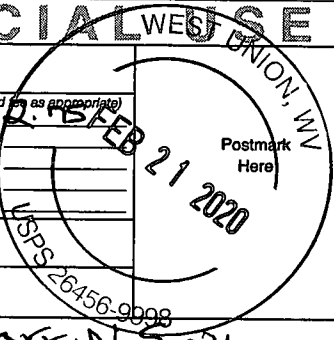
7018 3090 0001 0402 5710

U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$ 3.45
Extra Services & Fees (check box, add fees as appropriate)	
<input checked="" 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	\$.50
Total Postage and Fees	\$ 6.70



Sent To
Loren K. & Larry N. Smith
Street and Apt. No., or PO Box No.
1093 Punkin Center Rd.
City, State, ZIP+4®
West Union, WV 26456 20565
PS Form 3800, April 2015 FSN 7530-02-000-9047 See Reverse for Instructions

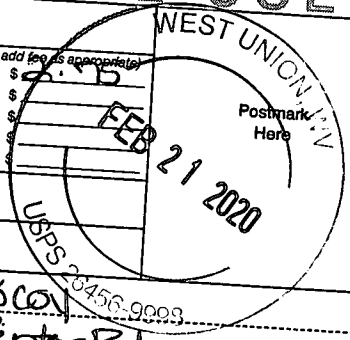
7018 3090 0001 0402 5734

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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OFFICIAL USE

Certified Mail Fee	\$ 3.45
Extra Services & Fees (check box, add fees as appropriate)	
<input checked="" 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	\$.50
Total Postage and Fees	\$ 6.70



Sent To
Jessie VanCoy
Street and Apt. No., or PO Box No.
1393 Punkin Center Rd.
City, State, ZIP+4®
West Union, WV 26456 20565
PS Form 3800, April 2015 FSN 7530-02-000-9047 See Reverse for Instructions

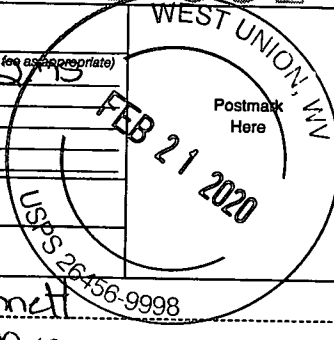
7018 3090 0001 0402 5741

U.S. Postal Service™
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Domestic Mail Only

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OFFICIAL USE

Certified Mail Fee	\$ 3.45
Extra Services & Fees (check box, add fees as appropriate)	
<input checked="" 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	\$.50
Total Postage and Fees	\$ 6.70



Sent To
Diane E. Bennett
Street and Apt. No., or PO Box No.
50 Chevront Ave.
City, State, ZIP+4®
West Union, WV 26456 20565
PS Form 3800, April 2015 FSN 7530-02-000-9047 See Reverse for Instructions



Doddridge County Floodplain Permits

(Week of February 24, 2020)

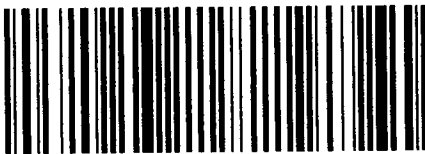
Please take notice that on the (20th) of (February), 2020, (Antero Resources) filed an application for a Floodplain Permit (#20-565) to develop land located at or about (Arnolds Creek Road and Punkin Center Road); Coordinates: 39.277259, -80.811072/39.256303, -80.791810. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (March 23, 2020) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. This project is for roadway improvements to Arnolds Creek Rd and Punkin Center Rd


GEORGE C. EIDEL, CFM

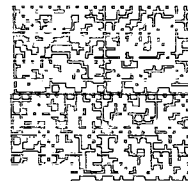
Doddridge County Floodplain Manager

CERTIFIED MAIL®

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



7018 3090 0001 0402 5741



HASLER

\$006.70⁰

02/21/2020 ZIP 26456
012E14643162

US POSTAGE

**Diane E. Bennett
50 Cheuvront Avenue
West Union, WV 26456**

250 NFE 1 51810002/21/20
FORWARD TIME EXP RTN TO SEND
BENNETT, DIANE
1390 PUNKIN CENTER RD
WEST UNION WV 26456-6353

RETURN TO SENDER

2645691161 0001
26456>2012



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:

**Diane E. Bennett
50 Chevront Avenue
West Union, WV 26456**



9590 9402 4783 8344 2626 98

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

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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



Dear Sir or Ma'am,

February 21, 2020

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,

George Eidel, CFM, OEM Director/Floodplain Manager



Doddridge County Floodplain Permits

(Week of February 24, 2020)

Please take notice that on the **(20th) of (February), 2020, (Antero Resources)** filed an application for a Floodplain Permit **(#20-565)** to develop land located at or about **(Arnolds Creek Road and Punkin Center Road); Coordinates: 39.277259, -80.811072/39.256303, -80.791810**. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by **(March 23, 2020)** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. **This project is for roadway improvements to Arnolds Creek Rd and Punkin Center Rd**

GEORGE C. EIDEL, CFM

Doddridge County Floodplain Manager

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Proposed Development:

Please check all elements of the proposed project that apply.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

<u>ACTIVITY</u>	<u>STRUCTURAL TYPE</u>
<input type="checkbox"/> New Structure	<input type="checkbox"/> Residential (1 – 4 Family)
<input type="checkbox"/> Addition	<input type="checkbox"/> Residential (more than 4 Family)
<input type="checkbox"/> Alteration	<input type="checkbox"/> Non-residential (floodproofing)
<input type="checkbox"/> Relocation	<input type="checkbox"/> Combined Use (res. & com.)
<input type="checkbox"/> Demolition	<input type="checkbox"/> Replacement
<input type="checkbox"/> Manufactured/Mobil Home	

B. OTHER DEVELOPMENT ACTIVITIES:

- Fill Mining Drilling Pipelining
- Grading
- Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse Alteration (including dredging and channel modification)
- Drainage Improvements (including culvert work)
- Road, Street, or Bridge Construction
- Subdivision (including new expansion)
- Individual Water or Sewer System
- Other (please specify)

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Development Site/Property Information:

Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)

Property Designation: 1 of 1

Site/Property Information:		
Legal Description: Arnolds Creek Road & Punkin Center Road		
Physical Address/911 Address: County Route 11 & 11/4		
Decimal Latitude/Longitude: 39.270551		
DMS Latitude/Longitude: -80.805752		
District: 08 (West Union)	Map: 14 & 20	Parcel: N/A
Land Book Description: N/A		
Deed Book Reference: N/A		
Tax Map Reference: N/A		
Existing Buildings/Use of Property: County Roads (Arnolds Creek Road & Punkin Center Road)		

Floodplain Location Data: (to be completed by Floodplain Manager or designee)			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No Zone: _____	
Notes:			

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: <u> 1 </u> of <u> 1 </u>
--

Property Owner Data:		
Name of Primary Owner (PO): Arnolds Creek Road (CR 11) & Punkin Center Road (CR11/4)		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Surface Rights Owner Data:		
Name of Primary Owner (PO): See Table of Adjacent Property Owners (Attachment B)		
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): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

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: 1 of 1

Contractor/Sub---Contractor (C/SC) Information:

C/SC Company Name: One contractor to be selected from the following: JF Allen (WV000376), Doss Enterprises (WV027217), Great Lakes (WV049648), High Point Construction Group (WV026530), Independence Excavating (WV041715), Kanawha Stone Company (WV006094), OH/WV Excavating (WV005911), Shallenberger Construction (WV051031), Wolfe's Excavating (WV043545), Sheckler's Excavating (WV058244), Preston Contractors Inc (WV001285), Mountaineer Contractors Inc (WV001286), Trumbull Corporation (WV003212), Lindy Paving Inc (WV030737), RDR Energy Resources LLC (WV047502), Jennings's Excavating Inc (WV024892), Entegra Energy Solutions LLC (WV054560).		
C/SC Company Name: See Above		
C/SC WV License Number: TBD		
C/SC FEIN: TBD	C/SC DUNS: TBD	
Local C/SC Point of Contact (POC): TBD		
Local C/SC POC Title: TBD		
C/SC Mailing Address: TBD		
City: TBD	State: TBD	Zip---Code: TBD
Local C/SC Office Phone: TBD		
Local C/SC POC Phone: TBD		
Local C/SC POC E---Mail: TBD		

Engineer Firm Information:

Engineer Firm Name: Civil & Environmental Consultants		
Engineer WV License Number: 15629		
Engineer Firm FEIN: N/A	Engineer Firm DUNS: N/A	
Engineer Firm Primary Point of Contact (POC): Greg Linder		
Engineer Firm Primary POC Title: Principal		
Engineer Firm Mailing Address: 600 Marketplace Ave. Suite 200		
City: Bridgeport	State: WV	Zip---Code: 26330
Engineer Firm Office Phone: 855-488-9539		
Engineer Firm Primary POC Phone: 304-848-7104		
Engineer Firm Primary POC E---Mail: glinder@cecinc.com		

Adjacent and/or Affected Landowners Data

Please provide data for all adjacent and/or affected surface owners (both up and down stream) whose property may be impacted by proposed development as demonstrated by a floodplain study or survey. Use additional copies of this page as needed.

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

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

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

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

Site Plan

A Site Plan is an accurate and detailed map of the proposed development for this project. It shows the size, shape, location and special features of the project property, and the size and location of any development planned to the property, especially as that development will impact the floodplain and/or floodway. Site plans show what currently exists on the project property, and any changes or improvements you are proposing to make. **A certified and licensed engineering firm should complete site plans.**

A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:

1. Legal description of the parcel, north arrow and scale
2. All property lines and their dimensions
3. Names of adjacent roads, location of driveways
4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
6. Location and dimensions of existing or proposed on-site sewage systems.
7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
9. Location and dimensions of any roadway development into floodplain/floodway. *(Includes initial development accessroads)*
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 will be properly attained, are current and valid, and must be presented prior to a Doddridge County Floodplain Permit being 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. 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.**
- 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: 02/18/2020

Applicant Printed Name: Tyler Streb

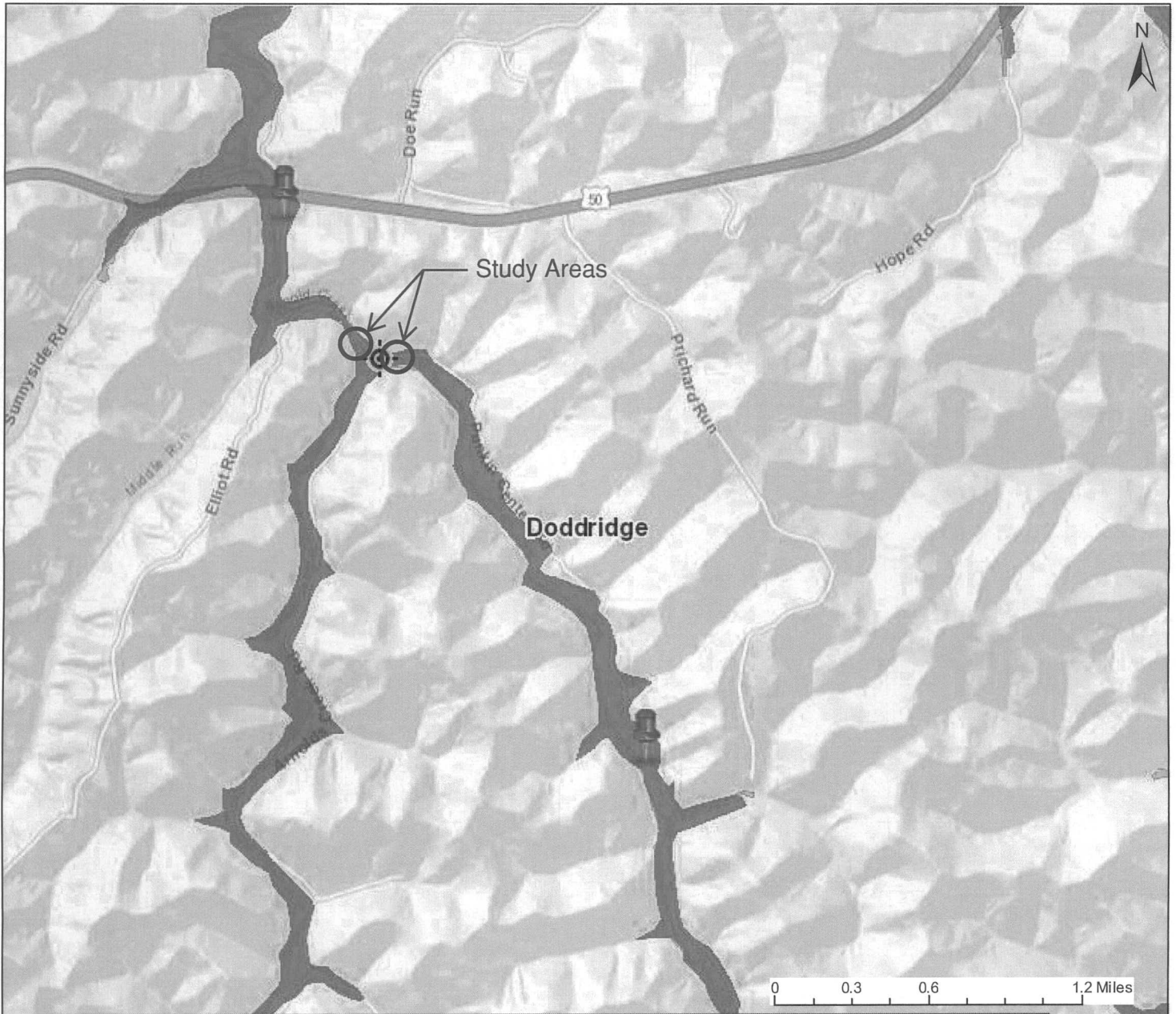


ATTACHMENT B
TABLE OF ADJACENT PROPERTY OWNERS

PROPERTY OWNER	PARCEL ID NUMBER	E-911 ADDRESS	PROPERTY OWNER ADDRESS	IN FLOODPLAIN
ERVOLINA ANTHONY A & LYNDA F (SURV)	09-08-0014-0005-0000	47 ARNOLDS CREEK RD, WEST UNION, WV, 26456	47 ARNOLDS CREEK RD, WEST UNION, WV 26456	Yes
MEYER ELEANOR	09-08-0014-0006-0000	3527 ELLIOT RD, WEST UNION, WV, 26456 3591 ELLIOT RD, EST UNION, WV, 26456	19 HEATH PLACE, GARDEN CITY, NY 11530	Yes
RULEY CHURCH	09-08-0014-0008-0000	322 ARNOLDS CREEK RD, WEST UNION, WV, 26456	C/O ROBERT L HOLLAND ATTORNEY, HIGH ST, WEST UNION, WV 26456	Yes
TRUSTEES OF M P CHURCH DAVID TRAVIS ET AL TRUSTEES	09-08-0014-0008-0001	No E-911 address found for this parcel	ROUTE 11	Yes
NESSLER MARY L	09-08-0014-0020-0000	883 ARNOLDS CREEK RD, WEST UNION, WV, 26456 856 ARNOLDS CREEK RD, WEST UNION, WV, 26456 745 ARNOLDS CREEK RD, WEST UNION, WV, 26456 1013 ARNOLDS CREEK RD, WEST UNION, WV, 26456 3434 ELLIOT RD, WEST UNION, WV, 26456	856 ARNOLDS CREEK RD, WEST UNION, WV 26456	Yes
HAYES DENNIS L & SONYA G (SURV)	09-08-0014-0007-0000	154 PUNKIN CENTER RD, WEST UNION, WV, 26456 360 PUNKIN CENTER RD, WEST UNION, WV, 26456 164 PUNKIN CENTER RD, WEST UNION, WV, 26456 328 PUNKIN CENTER RD, , WV, 26456 356 PUNKIN CENTER RD, WEST UNION, WV, 26456	164 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
HAYES DENNY D	09-08-0014-0007-0001	167 PUNKIN CENTER RD, WEST UNION, WV, 26456 161 PUNKIN CENTER RD, WEST UNION, WV, 26456	5710 MACCORRLE AVE SE, CHARLESTON, WV 25304	Yes
ROLLINS MARVIN B & CANDI E	09-08-0014-0009-0000	237 PUNKIN CENTER RD, WEST UNION, WV, 26456	PO BOX 56, WEST UNION, WV 26456	No
SMITH MARK B	09-08-0014-0017-0000	747 ARNOLDS CREEK RD, WEST UNION, WV, 26456	P O BOX 213, SMITHBURG, WV 26436	Yes
LEGGETT RICHARD LEE	09-08-0014-0019-0004	No E-911 address found for this parcel	526 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
LEGGETT RICHARD LEE	09-08-0014-0019-0003	482 PUNKIN CENTER RD, WEST UNION, WV, 26456 529 PUNKIN CENTER RD, WEST UNION, WV, 26456	526 PUNKIN CENTER, WEST UNION, WV 26456	Yes
CUTRIGHT SHIRLEY ET AL (LIFE)	09-08-0014-0019-0002	14 HUMMINGBIRD DR, WEST UNION, WV, 26456 36 HUMMINGBIRD DR, WEST UNION, WV, 26456 85 HUMMINGBIRD DR, WEST UNION, WV, 26456 612 PUNKIN CENTER RD, WEST UNION, WV, 26456 70 HUMMINGBIRD DR, WEST UNION, WV, 26456 50 HUMMINGBIRD DR, WEST UNION, WV, 26456 47 HUMMINGBIRD DR, WEST UNION, WV, 26456	50 HUMMINGBIRD DR, WEST UNION, WV 26456	Yes
PERINE GLADE AVON & DIANA L (SURV)	09-08-0015-0016-0000	613 PUNKIN CENTER RD, WEST UNION, WV, 26456	2499 ARNOLDS CREEK RD, WEST UNION, WV 26456	Yes
PERINE GLADE AVON	09-08-0015-0015-0000	No E-911 address found for this parcel	2499 ARNOLDS CREEK RD, WEST UNION, WV 26456	Yes
LEGGETT RICHARD	09-08-0014-0019-0001	23 HUMMINGBIRD DR, WEST UNION, WV, 26456	526 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
HUGHES KENNETH N	09-08-0015-0012-0007	No E-911 address found for this parcel	592 BEDFORD DR, CHARLES TOWN, WV 25414	Yes
PERINE DREXELENE (LIFE)	09-08-0015-0012-0000	659 PUNKIN CENTER RD, WEST UNION, WV, 26456 683 PUNKIN CENTER RD, WEST UNION, WV, 26456 669 PUNKIN CENTER RD, WEST UNION, WV, 26456 30 PUNKIN CENTER RD, WEST UNION, WV, 26456 77 LOG CABIN HILL RD, WEST UNION, WV, 26456 32 PUNKIN CENTER RD, WEST UNION, WV, 26456	670 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
HUGHES KENNETH N	09-08-0015-0012-0007	No E-911 address found for this parcel	592 BEDFORD DR, CHARLES TOWN, WV 25414	Yes
TRENT JOHN S	09-08-0015-0012-0004	No E-911 address found for this parcel	JOHN TRENT JR, 212 JOHN TRENT RD, SALEM, WV 26426	No
FRIELLO TIM J & DAWN C (SURV)	09-08-0015-0012-0005	109 LOG CABIN HILL RD, WEST UNION, WV, 26456	CORELOGIC TAX SERVICE, 3001 HACKBERRY, IRVING, TX 75063	Yes
WILKINSON MICHAEL ETAL	09-08-0015-0012-0002	No E-911 address found for this parcel	878 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
WILKINSON MICHAEL ETAL	09-08-0015-0012-0001	878 PUNKIN CENTER RD, WEST UNION, WV, 26456	878 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
CEMETERY (FLEMING FAMILY)	09-08-0015-0012-0003	935 PUNKIN CENTER RD, WEST UNION, WV, 26456	ROUTE 11/4	No

PROPERTY OWNER	PARCEL ID NUMBER	E-911 ADDRESS	PROPERTY OWNER ADDRESS	IN FLOODPLAIN
ARNOLDS CREEK U B CHURCH	09-08-0020-0001-0000	939 PUNKIN CENTER RD, WEST UNION, WV, 26456	ROUTE 11/4	No
WILKINSON MICHAEL ETAL	09-08-0020-0002-0000	No E-911 address found for this parcel	878 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
SMITH LOREN K & LARRY N *	09-08-0020-0003-0000	No E-911 address found for this parcel	1093 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
EQM GATHERING OPCO LLC	09-08-0020-0004-0000	1156 PUNKIN CENTER RD, WEST UNION, WV, 26456 1140 PUNKIN CENTER RD, WEST UNION, WV, 26456 1082 PUNKIN CENTER RD, WEST UNION, WV, 26456	EQUITRANS MIDSTREAM CORPORATI, PO BOX 6308, PITTSBURGH, PA 15222	Yes
SMITH LOREN K & LARRY N *	09-08-0020-0005-0000	1097 PUNKIN CENTER RD, WEST UNION, WV, 26456 1093 PUNKIN CENTER RD, WEST UNION, WV, 26456 1093 PUNKIN CENTER RD, WEST UNION, WV, 26456	1093 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
SMITH LOREN K & LARRY N *	09-08-0020-0008-0000	No E-911 address found for this parcel	1093 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
VANSCOY JESSIE ALBERTA	09-08-0020-0008-0001	1393 PUNKIN CENTER RD, WEST UNION, WV, 26456 1387 PUNKIN CENTER RD, WEST UNION, WV, 26456	1393 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
SMITH LOREN K & LARRY N *	09-08-0020-0013-0000	No E-911 address found for this parcel	1093 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes
BENNETT DIANE E	09-08-0020-0011-0000	1386 PUNKIN CENTER RD, WEST UNION, WV, 26456 1380 PUNKIN CENTER RD, WEST UNION, WV, 26456	50 CHEUVRONT AVE, WEST UNION, WV 26456	Yes
CNG TRANSMISSION CORP	09-08-0020-0012-0000	1536 PUNKIN CENTER RD, WEST UNION, WV, 26456	DOMINION TRANSMISSION, 625 LIBERTY AV MAIL DROP 18-01, PITTSBURGH, PA 15221	Yes
SECRETIST MARY FARR	09-08-0020-0014-0000	82 BULLDOG DR, WEST UNION, WV, 26456 1792 PUNKIN CENTER RD, WEST UNION, WV, 26456 1500 PRICHARD RUN, WEST UNION, WV, 26456 1884 PUNKIN CENTER RD, WEST UNION, WV, 26456 1882 PUNKIN CENTER RD, WEST UNION, WV, 26456 1904 PUNKIN CENTER RD, WEST UNION, WV, 26456 2025 PUNKIN CENTER RD, WEST UNION, WV, 26456 1829 PUNKIN CENTER RD, WEST UNION, WV, 26456 1794 PUNKIN CENTER RD, WEST UNION, WV, 26456 1604 PUNKIN CENTER RD, WEST UNION, WV, 26456	1884 PUNKIN CENTER RD, WEST UNION, WV 26456	Yes

183783 Floodplain Analysis



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

H I G H R I S K		Regulatory Floodway	<table border="1"> <tr> <td colspan="2" style="text-align: center;"> Flood Info Location </td> <td style="text-align: right;">Map created on 1/17/2020</td> </tr> <tr> <td colspan="3">User Notes</td> </tr> <tr> <td style="background-color: #cccccc;">Flood Hazard Area</td> <td colspan="2">Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.</td> </tr> <tr> <td style="background-color: #cccccc;">Flood Zone</td> <td colspan="2">A (Advisory Flood Heights available)</td> </tr> <tr> <td style="background-color: #cccccc;">Stream</td> <td colspan="2">Arnold Creek</td> </tr> <tr> <td style="background-color: #cccccc;">Watershed (HUC8)</td> <td colspan="2">Little Musringum-Middle Island (5030201)</td> </tr> <tr> <td style="background-color: #cccccc;">Flood Height</td> <td colspan="2">About 814 ft (Source: AFH)</td> </tr> <tr> <td style="background-color: #cccccc;">Water Depth</td> <td colspan="2">About 2.8 ft (Source: HEC-RAS)</td> </tr> <tr> <td style="background-color: #cccccc;">Elevation</td> <td colspan="2">About 811 ft (Source: SAMS 2003)</td> </tr> <tr> <td style="background-color: #cccccc;">Community & ID</td> <td colspan="2">Doddridge County (ID: 540024)</td> </tr> <tr> <td style="background-color: #cccccc;">FEMA Map & Date</td> <td colspan="2">54017C0120C; Effective Date: 10/4/2011</td> </tr> <tr> <td style="background-color: #cccccc;">Location (lat, long)</td> <td colspan="2">(39.270551, -80.805752)</td> </tr> <tr> <td style="background-color: #cccccc;">Parcel ID</td> <td colspan="2">09-08-0014-0020-0000</td> </tr> <tr> <td style="background-color: #cccccc;">E-911 Address</td> <td colspan="2">multiple addresses</td> </tr> </table>	Flood Info Location		Map created on 1/17/2020	User Notes			Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.		Flood Zone	A (Advisory Flood Heights available)		Stream	Arnold Creek		Watershed (HUC8)	Little Musringum-Middle Island (5030201)		Flood Height	About 814 ft (Source: AFH)		Water Depth	About 2.8 ft (Source: HEC-RAS)		Elevation	About 811 ft (Source: SAMS 2003)		Community & ID	Doddridge County (ID: 540024)		FEMA Map & Date	54017C0120C; Effective Date: 10/4/2011		Location (lat, long)	(39.270551, -80.805752)		Parcel ID	09-08-0014-0020-0000		E-911 Address	multiple addresses	
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Download the Full Legend for all flood tool symbols
https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf

Disclaimer:
 The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.



January 14, 2020

Doddridge County Office of Emergency Management
Attention: Mr. George Eidel
105 Court Street Suite 3
West Union, WV 26456-2095

Subject: Antero Resources Corporation
Arnolds Creek Road and Punkin Center Road County Route Improvement
Compliance Certificate
Doddridge County, West Virginia
CEC Project 183-783

Civil & Environmental Consultants, Inc. (CEC) is pleased to evaluate the potential floodplain impacts for the above referenced project on behalf of Antero Resources Corporation. The proposed project involves a county route improvement of County Route 11 (Arnolds Creek Road) and County Route 11/4 (Punkin Center Road). According to the Flood Insurance Rate Map (FIRM) for Doddridge County, Map Panel 54017C0120C, with a map revised date of October 4, 2011, portions of County Route 11 are located within the Arnold Creek Zone A Flood Hazard Area, and portions of County Route 11/4 are located within the Left Fork Arnold Creek Zone A Flood Hazard Area. The proposed work that will take place in the floodplain on County Route 11 consists of a two (2) inch hot-mix asphalt overlay over the existing pavement. The proposed work on County Route 11/4 consists of a twelve (12) inch full depth reclamation of the existing roadway, with a hot-mix asphalt overlay of three (3) inches for an approximately 2,585-foot section of roadway and a hot-mix asphalt overlay of 4.5 inches for an approximately 4,740-foot section of roadway.

Two abbreviated hydraulic studies were performed in HEC-RAS to analyze the potential for adverse effects due to the proposed work and the potential impacts to the water levels and floodplains of Arnold Creek and Left Fork Arnold Creek. A representative section of road within each floodplain was selected for the hydraulic studies. Two analyses were performed for each study: an existing conditions analysis and a proposed conditions analysis. The existing conditions models were created using cross-sections based on existing topography along the centerlines of Arnold Creek and Left Fork Arnold Creek. The drainage areas for the study areas were determined to be approximately 10.07 square miles for Arnold Creek and 5.45 square miles for Left Fork Arnold Creek. The United States Geological Survey (USGS) Regression Equations were used to calculate the 100-year discharge for each drainage area. Based on the existing topography, the average slope of the stream channel was determined to be approximately 0.003 ft/ft for Arnold Creek and 0.004 ft/ft for Left Fork Arnold Creek. These values were used as the flow rates and boundary conditions in the steady flow data for the models. In the proposed conditions models, an obstruction was added to each cross-section in order to model the proposed asphalt overlay over the existing roadway. By comparing the results from the two analyses, the effects of the proposed work on the 100-year water levels of Arnold Creek and Left Fork Arnold Creek were determined. The results indicate that the proposed county route improvement will have no impact to the base flood elevation for Arnold Creek, and increase the base flood elevation for Left Fork



Arnold Creek by a maximum of 0.01 feet. Since the proposed work takes place within Zone A Flood Hazard Areas, the allowable rise of the 100-year flood level is less than one foot, according to FEMA criteria. Thus, the project is in compliance with FEMA criteria as well as the Doddridge County Floodplain Ordinance.

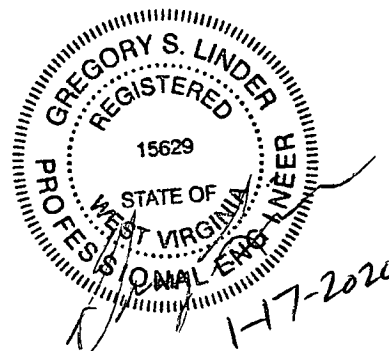
This compliance certificate is provided in support of the floodplain development permit application. Your time and effort in reviewing this floodplain development permit application is appreciated. Please feel free to contact Greg Linder at 304-933-3119 or via e-mail at glinder@cecinc.com or contact Mr. Jeff McCauley at 304-842-4255 or via e-mail at jmccauley@anteroresources.com if you have questions or need additional information.

Respectfully submitted,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Andrew P. Darnell, E.I.T.
Project Manager

Gregory S. Linder, P.E.
Principal



PROJECT Arnolds Creek Floodplain AnalysisPROJECT NO. 183-783PAGE 1 OF 1PREPARED BY APDDATE 1/9/20CHECKED BY GSLDATE 1-17-2020Left Fork Arnold Creek (Station 122+25)

Drainage Area = 3,486 acres = 5.45 square miles

USGS Regression Equations (Western Plateaus Region)

$$Q_2 = 129 A^{0.730} = (129)(5.45)^{0.730} = 445 \text{ cfs}$$

$$Q_{10} = 292 A^{0.699} = (292)(5.45)^{0.699} = 955 \text{ cfs}$$

$$Q_{25} = 391 A^{0.685} = (391)(5.45)^{0.685} = 1,256 \text{ cfs}$$

$$Q_{100} = 557 A^{0.674} = (557)(5.45)^{0.674} = 1,747 \text{ cfs}$$

Arnold Creek (Station 275+50)

Drainage Area = 6,444 acres = 10.07 square miles

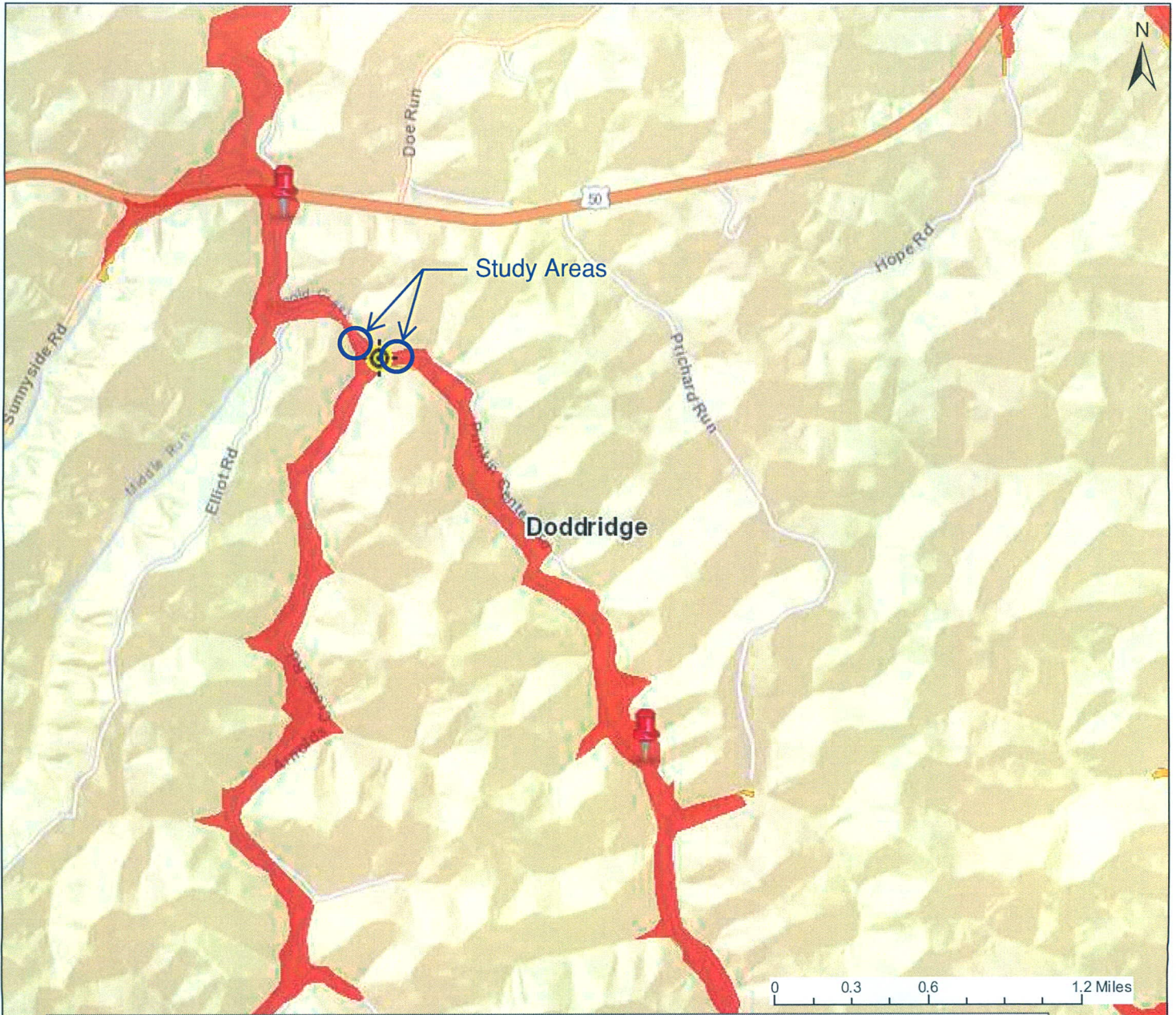
$$Q_2 = 129 A^{0.730} = (129)(10.07)^{0.730} = 696 \text{ cfs}$$

$$Q_{10} = 292 A^{0.699} = (292)(10.07)^{0.699} = 1,467 \text{ cfs}$$

$$Q_{25} = 391 A^{0.685} = (391)(10.07)^{0.685} = 1,915 \text{ cfs}$$

$$Q_{100} = 557 A^{0.674} = (557)(10.07)^{0.674} = 2,642 \text{ cfs}$$

183783 Floodplain Analysis



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

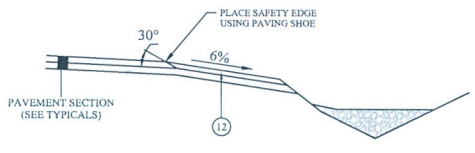
H I G H R I S K		Regulatory Floodway	Flood Info Location Map created on 1/17/2020 User Notes Flood Hazard Area Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available. Flood Zone A (Advisory Flood Heights available) Stream Arnold Creek Watershed (HUC8) Little Musringum-Middle Island (5030201) Flood Height About 814 ft (Source: AFH) Water Depth About 2.8 ft (Source: HEC-RAS) Elevation About 811 ft (Source: SAMS 2003) Community & ID Doddridge County (ID: 540024) FEMA Map & Date 54017C0120C; Effective Date: 10/4/2011 Location (lat, long) (39.270551, -80.805752) Parcel ID 09-08-0014-0020-0000 E-911 Address multiple addresses
	Zone AE	1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)	
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	Advisory	1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones)	
	Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf		
Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.			

NO.	DATE	DESCRIPTION

ANTERO RESOURCES CORPORATION
 ARNOLDS CREEK RD. & PUNKIN CANY. RD.
 COUNTY ROUTE IMPROVEMENT
 TYPICAL SECTIONS

LEGEND

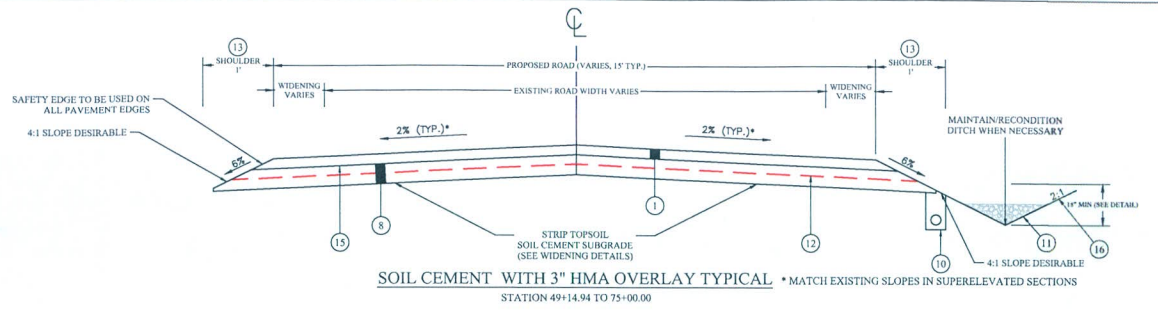
NO.	ITEM	DESCRIPTION
1	401	3" HMA SUPERPAVE WEARING, TYPE 19 (SEE NOTE 1)
2	401	2 1/4" HMA SUPERPAVE WEARING, TYPE 19 (SEE NOTE 1)
3	401	2" HMA SUPERPAVE WEARING, TYPE 19 (SEE NOTE 1)
4	408	TACK COAT FOR INTERMEDIATE COURSE (0.04 TO 0.05 GAL/SY)
5	408	TACK COAT FOR INTERMEDIATE COURSE (0.07 TO 0.10 GAL/SY)
6	401	2 1/4" HMA SUPERPAVE BASE, TYPE 19
7	401	HMA SUPERPAVE SCRATCH COURSE, TYPE 19
8	521	FDR - 12" MIN. @ 5% CEMENT
9	521	FDR - 12" MIN. @ 7% CEMENT
10	606	UNDERDRAINS (AS NEEDED)
11	704	STONE FOR RIPRAP
12	----	EXISTING SURFACE
13	307	AGGREGATE SHOULDER STONE (WVDOH CLASS 10)
14	207	UNDERCUT EXCAVATION (BERM UNDERCUT) (SEE NOTE 2)
15	405	CURING COAT (0.10 TO 0.20 GAL/SY)
16	----	SHOULDERS AND DITCHES



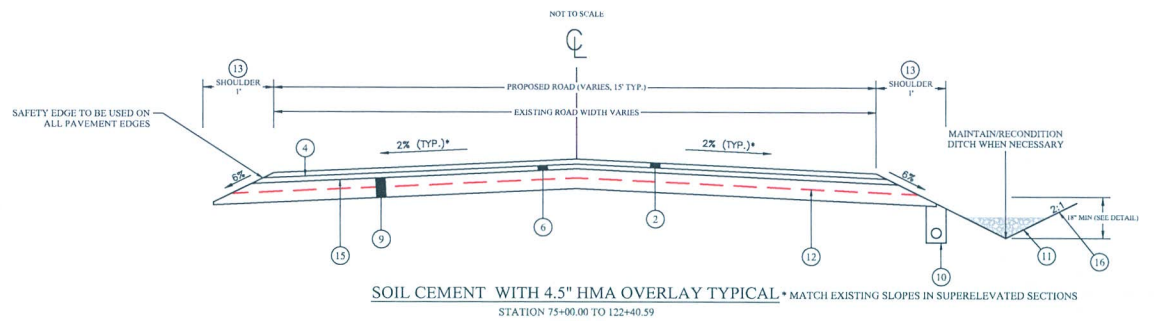
SAFETY EDGE DETAIL
 ENTIRE PROJECT
 NOT TO SCALE

NOTES:

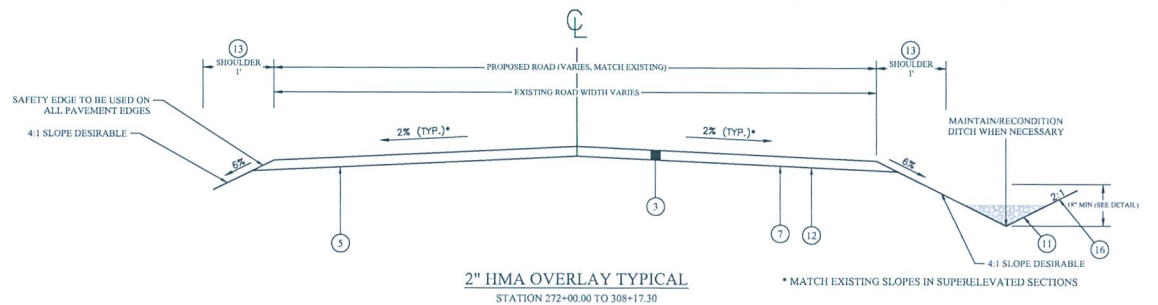
- WHEN A 19MM MIX IS SPECIFIED FOR USE AS A HEAVY DUTY SURFACE MIX, IT SHALL BE DESIGNED AS A FINE GRADED MIX WITH ADDITIONAL REQUIREMENT OF A MINIMUM OF 47% PASSING THE 4.75 MM (NO. 4) SCREEN.
- AREAS OUTSIDE OF THE EXISTING EDGES OF ROAD THAT ARE INCLUDED IN THE PROPOSED WIDENING SHALL BE PROOFROLLED AT EXISTING MOISTURE CONTENTS USING A FULLY LOADED TRAILER OR OFF-ROAD DUMP TRUCK TO DELINEATE UNSUITABLE MATERIAL. PROOFROLLING SHALL BE IN ACCORDANCE WITH SECTION 716.3.2.3 OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2017 AND MATERIALS PROCEDURE 717.04.21, SECTION 5.8. IF THE PROPOSED WIDENED AREA OUTSIDE OF THE EXISTING ROAD DISPLAYS ELASTICITY OR DEFORMATION DURING THE PROOF ROLL, THE DEFLECTING MATERIAL SHOULD BE OVEREXCAVATED TO THE DEPTH OF THE PROPOSED FULL DEPTH RECLAMATION (FDR) SECTION. THIS MATERIAL CAN BE BLENDED WITH ASPHALT NO. 37 STONE AND USED IN THE FDR SECTION. IF DEEPER OVEREXCAVATION IS REQUIRED TO ACHIEVE SUITABLE MATERIAL, THE OVEREXCAVATED MATERIAL BELOW THE PROPOSED FDR SECTION SHALL BE REPLACED WITH WYVOPIL CLASS 9 AGGREGATE. THE OVEREXCAVATION SHALL HAVE A MAXIMUM DEPTH OF 3 FEET FROM THE EXISTING GROUND SURFACE. OVEREXCAVATION WILL ONLY BE APPROVED AT ANTERO'S DIRECTION. THE QUANTITIES REPRESENTED FOR ITEM 14, UNDERCUT EXCAVATION-BERM UNDERCUT ARE BASED ON AN ASSUMED 18 INCH OVEREXCAVATION. THE FDR FOR THE EXISTING ROADWAY AND PROPOSED WIDENING SHALL BE COMPLETED AT THE SAME TIME.
- MIX DESIGN SHALL BE HEAVY.
- DESIGN ESALS ARE 400,000.



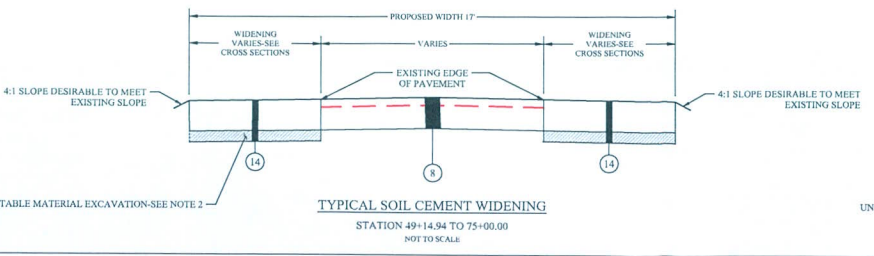
SOIL CEMENT WITH 3" HMA OVERLAY TYPICAL * MATCH EXISTING SLOPES IN SUPERELEVATED SECTIONS
 STATION 49+14.94 TO 75+00.00



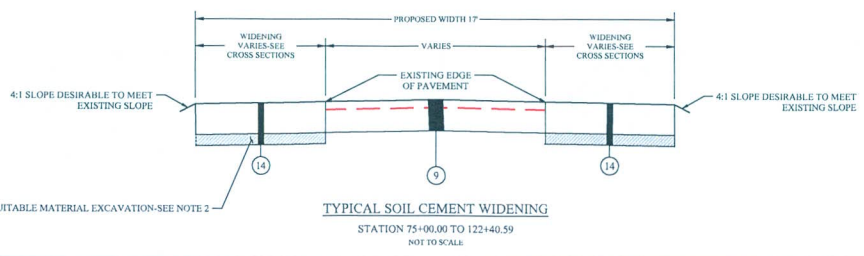
SOIL CEMENT WITH 4.5" HMA OVERLAY TYPICAL * MATCH EXISTING SLOPES IN SUPERELEVATED SECTIONS
 STATION 75+00.00 TO 122+40.59



2" HMA OVERLAY TYPICAL * MATCH EXISTING SLOPES IN SUPERELEVATED SECTIONS
 STATION 272+00.00 TO 308+17.30



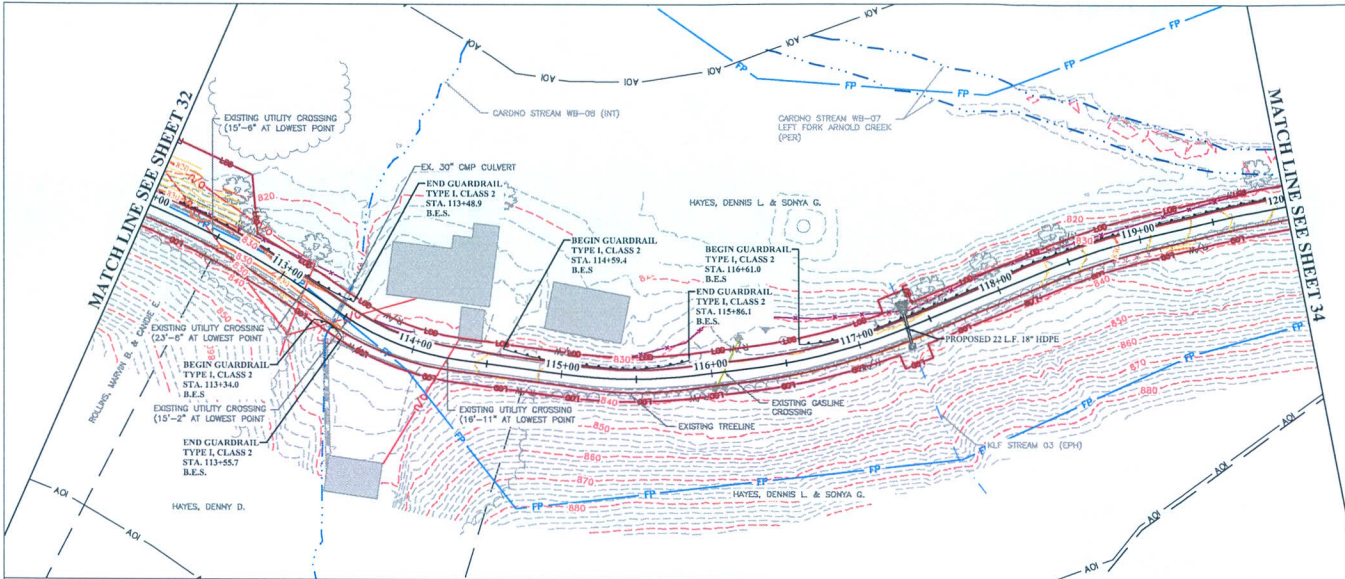
TYPICAL SOIL CEMENT WIDENING
 STATION 49+14.94 TO 75+00.00
 NOT TO SCALE



TYPICAL SOIL CEMENT WIDENING
 STATION 75+00.00 TO 122+40.59
 NOT TO SCALE

PLOT DATE/TIME: 12/10/2019 7:38 PM

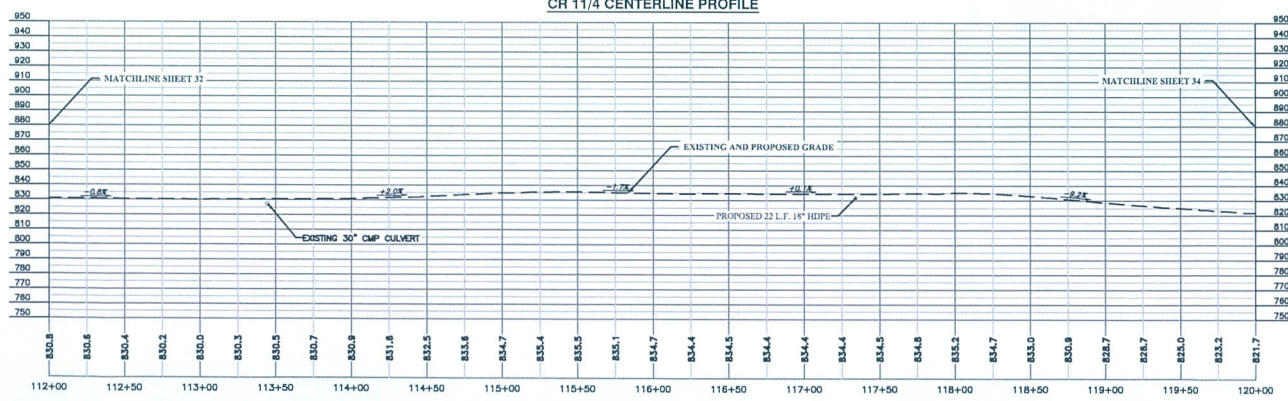
CAD FILE: P:\2019\18-783-CAD\DWG\18783-T01-D1.dwg



- ### PLAN LEGEND
- PROPERTY LINE
 - EXISTING RIGHT OF WAY
 - EXISTING CONTOURS
 - EXISTING ROAD EDGE
 - EXISTING DRIVEWAY
 - EXISTING TRAIL
 - EXISTING BUILDING
 - EXISTING UTILITY POLE AND OVERHEAD LINE
 - EXISTING GAS LINE
 - EXISTING WATER LINE
 - EXISTING UNDERGROUND TELEPHONE LINE
 - EXISTING CULVERT
 - EXISTING TREE LINE
 - EXISTING DRAINAGE DITCH
 - EXISTING DRAINAGE STREAM - PERMANENT
 - EXISTING DRAINAGE STREAM - INTERMITTENT
 - EXISTING DRAINAGE WETLAND - PERMANENT
 - EXISTING DRAINAGE WETLAND - INTERMITTENT
 - EXISTING STORM SEWER
 - EXISTING SWALE DITCH
 - EXISTING SHALDRON
 - EXISTING GAS VALVE
 - EXISTING WATER VALVE
 - EXISTING TELEPHONE JUNCTION BOX
 - EXISTING TREE
 - LIMIT OF DISTURBANCE
 - PROPOSED AREA OF INTEREST
 - PROPOSED CONTOURS
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED SHOULDER
 - PROPOSED DITCH
 - PROPOSED ROCK LINED DITCH
 - PROPOSED 8-IN COMPOST FILTER SOCK
 - PROPOSED 12-IN COMPOST FILTER SOCK
 - PROPOSED 18-IN COMPOST FILTER SOCK
 - PROPOSED SILT FENCE
 - PROPOSED SUPER SILT FENCE
 - PROPOSED CULVERT
 - PROPOSED CUT LIMIT
 - PROPOSED FILL LIMIT
 - PROPOSED TREE CLEARING LIMIT
 - PROPOSED ROCK CHECK DAM
 - PROPOSED OUTLET PROTECTION

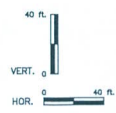


- ### PROFILE LEGEND
- EXISTING GROUND
 - PROPOSED GRADE



CULVERT	EXISTING STRUCTURE	EXISTING CULVERT		CULVERT TABLE							PROPOSED CULVERT				NOTES
		INLET STA.	OUTLET STA.	ACTIVITY	PROPOSED STRUCTURE	LENGTH (FT.)	SLOPE	COVER (IN.)	CONDITION	INLET STA.	OUTLET STA.	INLET EL.	OUTLET EL.		
17	30"x42" CMP	113+46.2	113+41.8	826.1	826.1	32	0.16%	GOOD	3.0	CLEAN	117+32.4	117+35.6	831.34	830.91	ELLIPTICAL PIPE
18	15" CMP	UNK	UNK	UNK	UNK	16	UNK	GOOD	1.5	REPLACE					

OVERHEAD UTILITY CLEARANCE				
POLE #	TO	POLE #	STATION	PRE-CONSTRUCTION HEIGHT
			112+46	15'-6"
			113+17	23'-6"
			113+51	15'-2"



CAD FILE: P:\2019\153-265-185-CADD\153-265-185-001\153-265-185-001-MAP.dwg PLOT DATE/TIME: 12/10/2019 7:43 PM




APPROVED FOR PERMITS: DATE: _____
 APPROVED FOR BIDS: DATE: _____
 APPROVED FOR CONSTRUCTION: DATE: _____

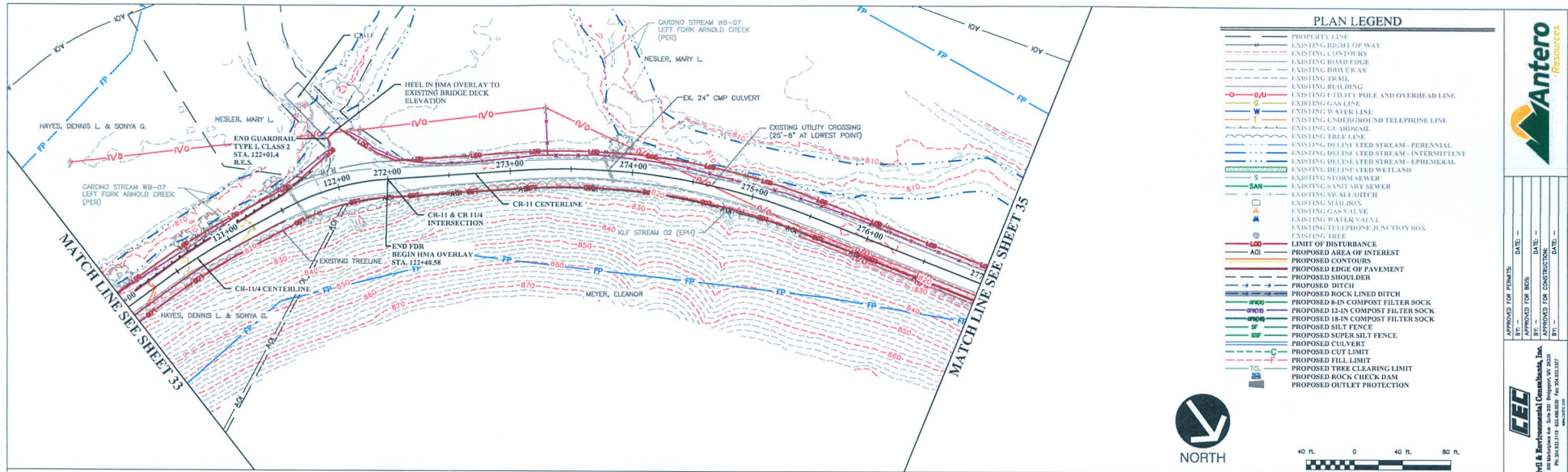
CEC
 Civil & Environmental Consultants, Inc.
 1800 W. 12th St., Suite 100, Fort Collins, CO 80521
 Tel: 970.221.2119 Fax: 970.221.2127 www.cecinc.com

NO.		DATE	DESCRIPTION

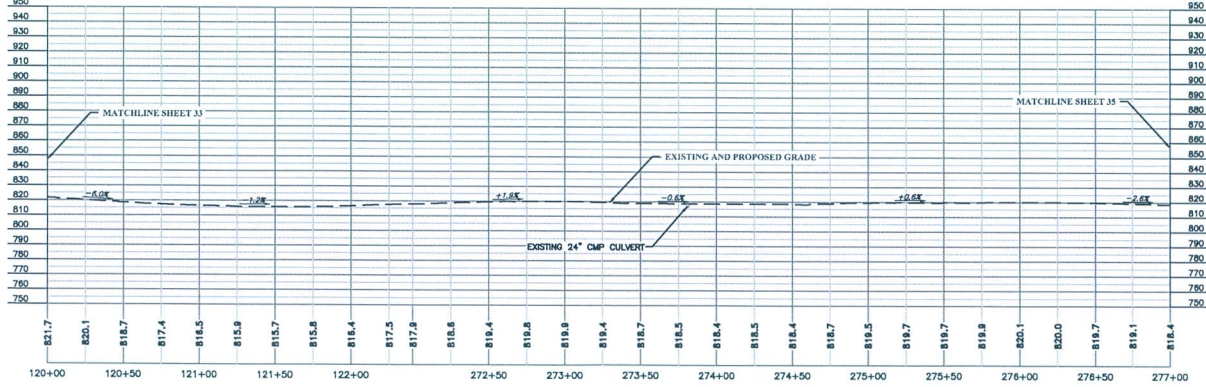
ANTERO RESOURCES CORPORATION
 ARNOLDS CREEK RD. & PUNKIN CNTR. RD.
 COUNTY ROAD DEPARTMENT
 PLAN AND PROFILE SHEET 09

SHEET No. **33**

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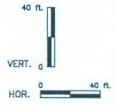


CR 11/4 AND CR 11 CENTERLINE PROFILE



CULVERT	EXISTING CULVERT										PROPOSED CULVERT						NOTES		
	STRUCTURE	INLET STA.	OUTLET STA.	INLET FL. EL.	OUTLET FL. EL.	LENGTH (FT.)	SLOPE	CONDITION	COVER (IN.)	ACTIVITY PROPOSED	STRUCTURE	LENGTH (FT.)	SLOPE	COVER (IN.)	INLET STA.	OUTLET STA.		INLET FL. EL.	OUTLET FL. EL.
19	18" RCP	UNK	UNK	UNK	UNK	21	UNK	GOOD	1.3	CLEAN									
20	18" CMP	273+85.3	273+76.0	816.5	815.5	23	4.24%	GOOD	1.0	CLEAN									

OVERHEAD UTILITY CLEARANCE					
POLE #	TO	POLE #	STATION	LOCATION	PRE-CONSTRUCTION HEIGHT
			274+66	CL	25'-8"



PLAN LEGEND	
	PROPERTY LINE
	EXISTING RIGHT OF WAY
	EXISTING GROUND
	EXISTING ROAD EDGE
	EXISTING DRIVEWAY
	EXISTING BEAL
	EXISTING BUILDING
	EXISTING LIGHTING POLE AND OVERHEAD LINE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING G. GABRIEL
	EXISTING TABLE ELEVATION
	EXISTING DELIMITED STREAM - PERENNIAL
	EXISTING DELIMITED STREAM - INTERMITTENT
	EXISTING DELIMITED STREAM - EPHEMERAL
	EXISTING DELIMITED WETLAND
	EXISTING STORM SEWER
	EXISTING 8" UTILITY SEWER
	EXISTING WATER DITCH
	EXISTING SHALEBOX
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING TELEPHONE JUNCTION BOX
	EXISTING TREE
	LIMIT OF DISTURBANCE
	PROPOSED AREA OF INTEREST
	PROPOSED CONTOURS
	PROPOSED EDGE OF PAVEMENT
	PROPOSED SHOULDER
	PROPOSED DITCH
	PROPOSED ROCK LINED DITCH
	PROPOSED 6-IN COMPOST FILTER SOCK
	PROPOSED 12-IN COMPOST FILTER SOCK
	PROPOSED 18-IN COMPOST FILTER SOCK
	PROPOSED SILT FENCE
	PROPOSED SUPER SILT FENCE
	PROPOSED CULVERT
	PROPOSED CUT LIMIT
	PROPOSED FILL LIMIT
	PROPOSED TREE CLEARING LIMIT
	PROPOSED ROCK CHECK DAM
	PROPOSED OUTLET PROTECTION

Antero Resources

APPROVED FOR PERMITS: _____ DATE: _____
 BY: _____ DATE: _____
 FOR: _____ DATE: _____
 APPROVED FOR CONSTRUCTION: _____ DATE: _____
 BY: _____ DATE: _____

CEC
Charles & Barbara Construction, Inc.
 1875-000-TR01-RFP.dwg
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NO.	DATE	DESCRIPTION

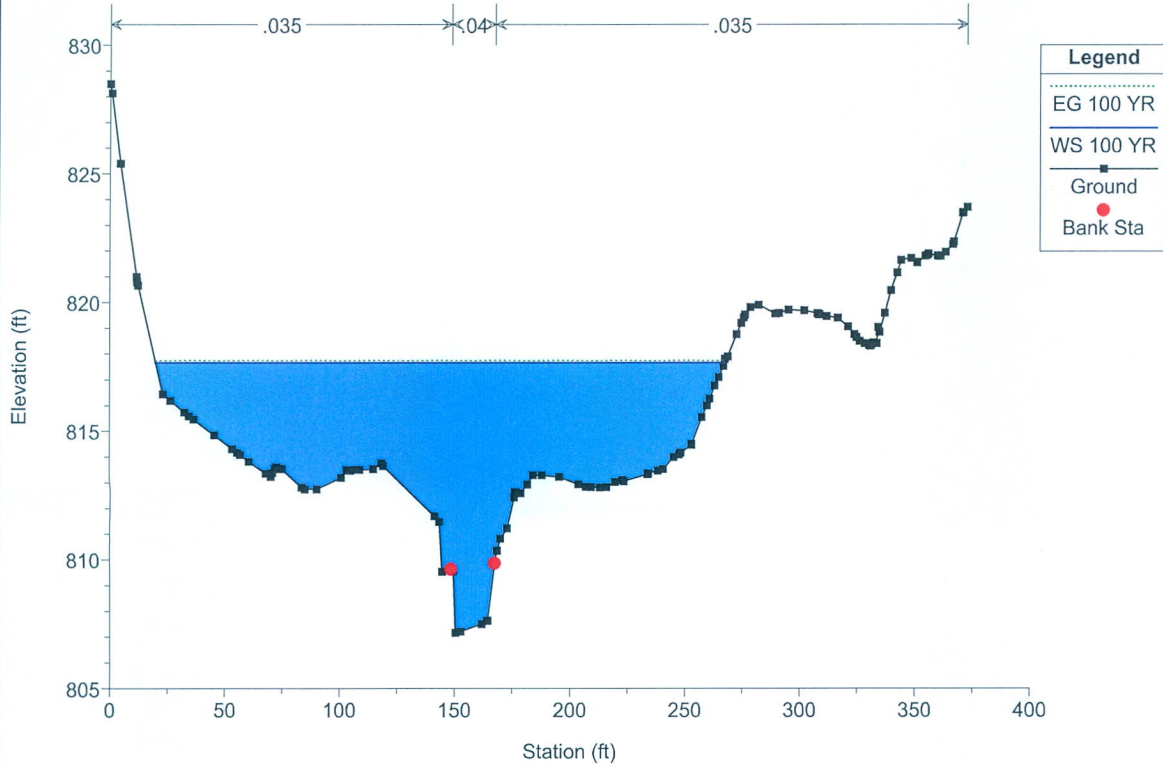
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 ARNOLDS CREEK RD. & PUNIKIN CNTR. RD.
 COUNTY ROUTE IMPROVEMENT
 PLAN AND PROFILE SHEET 10

SHEET No. **34**

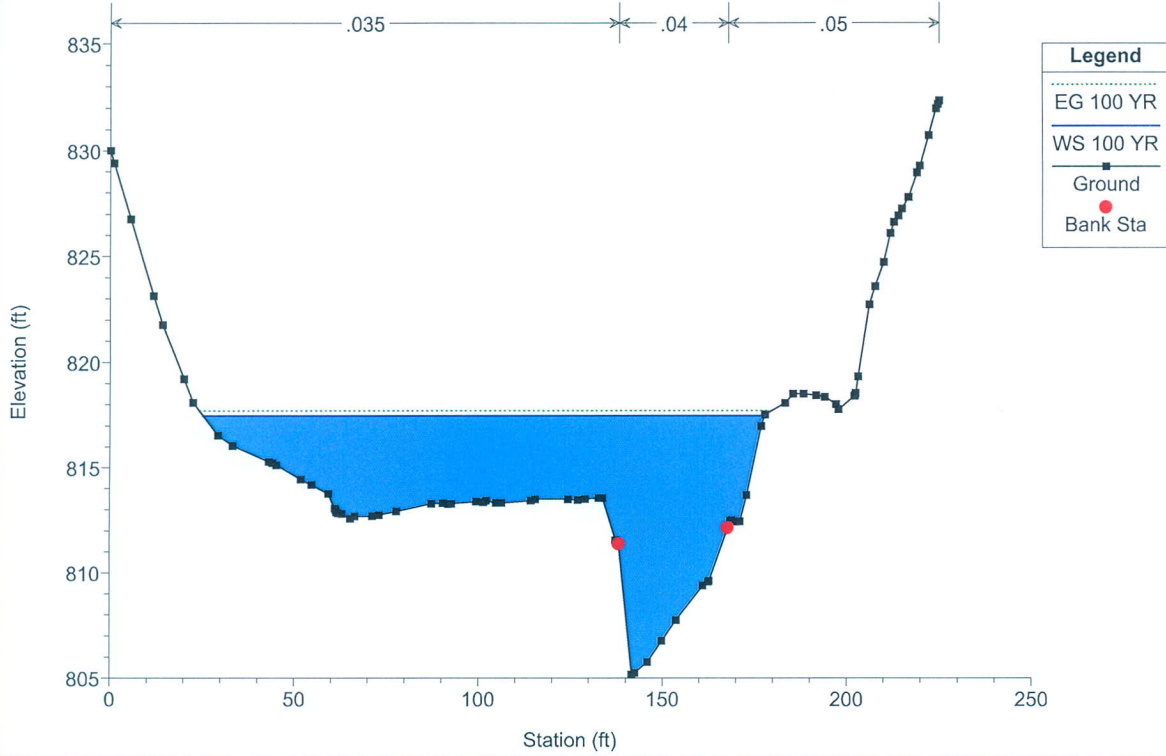
HEC-RAS River: Arnolds Creek Reach: Arnolds Creek Profile: 100 YR

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Arnolds Creek	5415	100 YR	Arnolds-Ex	2642.00	807.15	817.66		817.75	0.000407	3.20	1123.68	247.03	0.18
Arnolds Creek	5415	100 YR	Arnolds-Prop	2642.00	807.15	817.66		817.75	0.000407	3.20	1123.68	247.03	0.18
Arnolds Creek	5350	100 YR	Arnolds-Ex	2642.00	805.16	817.46		817.70	0.000970	4.68	722.68	152.56	0.27
Arnolds Creek	5350	100 YR	Arnolds-Prop	2642.00	805.16	817.46		817.70	0.000970	4.68	722.68	152.56	0.27
Arnolds Creek	5275	100 YR	Arnolds-Ex	2642.00	806.48	817.39		817.63	0.000899	4.51	702.95	128.38	0.26
Arnolds Creek	5275	100 YR	Arnolds-Prop	2642.00	806.48	817.39		817.63	0.000899	4.51	702.95	128.38	0.26
Arnolds Creek	5200	100 YR	Arnolds-Ex	2642.00	805.46	817.34		817.57	0.000820	4.00	707.97	122.42	0.24
Arnolds Creek	5200	100 YR	Arnolds-Prop	2642.00	805.46	817.34		817.57	0.000820	4.00	707.97	122.42	0.24
Arnolds Creek	5125	100 YR	Arnolds-Ex	2642.00	807.32	817.33		817.49	0.000822	4.36	921.30	167.69	0.26
Arnolds Creek	5125	100 YR	Arnolds-Prop	2642.00	807.32	817.33		817.49	0.000822	4.36	921.30	167.69	0.26
Arnolds Creek	5050	100 YR	Arnolds-Ex	2642.00	807.49	816.79	815.06	817.35	0.003006	7.36	503.03	106.47	0.48
Arnolds Creek	5050	100 YR	Arnolds-Prop	2642.00	807.49	816.79	815.06	817.35	0.003006	7.36	503.03	106.47	0.48

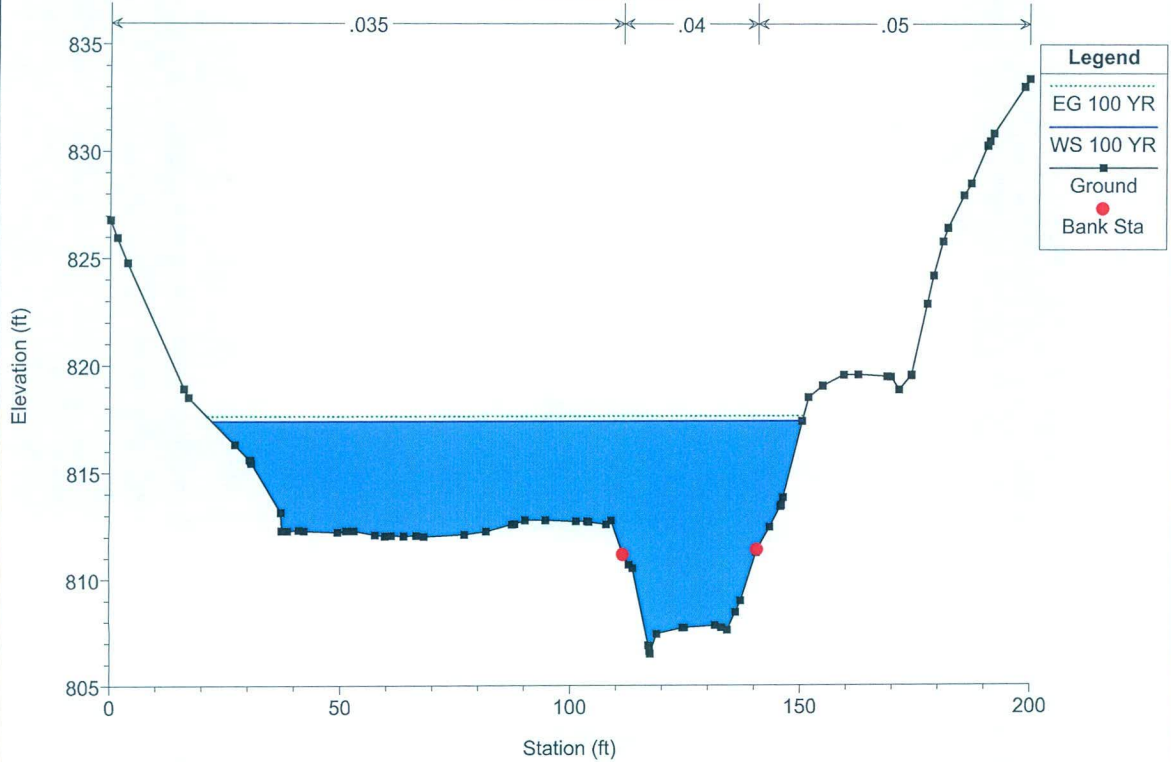
183783-Arnolds Plan: 183783-Arnolds-Existing 1/14/2020
CR 11 Station 272+61



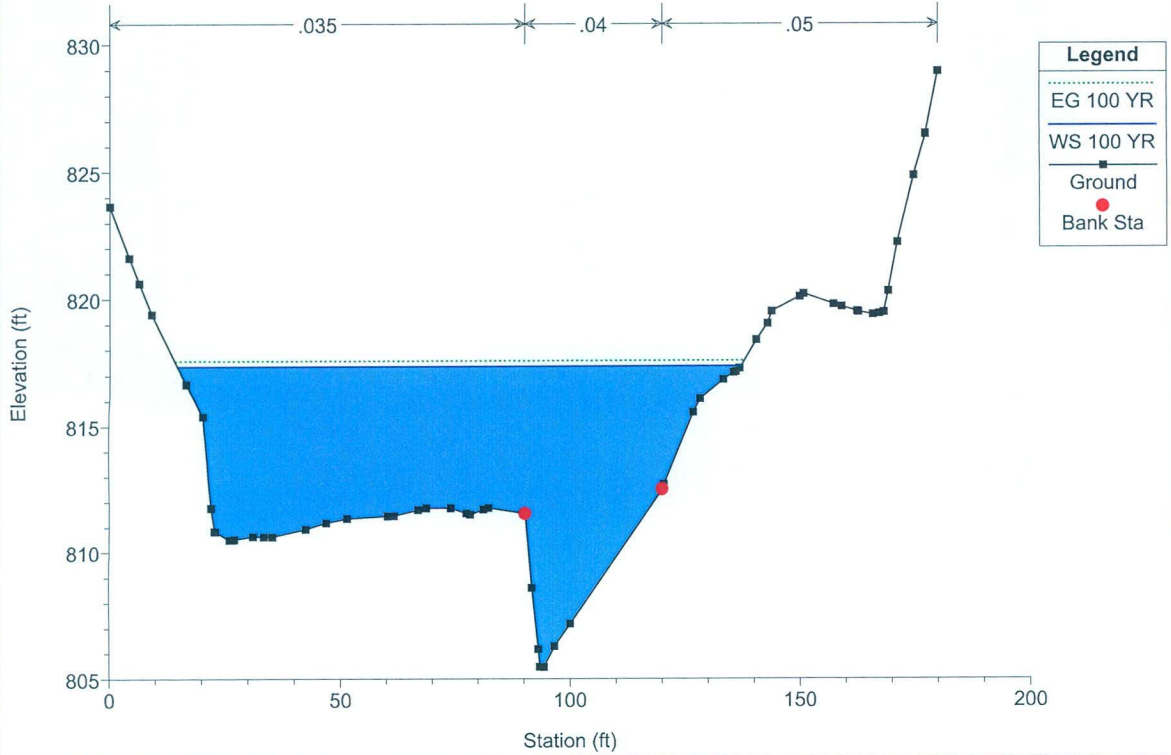
183783-Arnolds Plan: 183783-Arnolds-Existing 1/14/2020
CR 11 Station 274+30



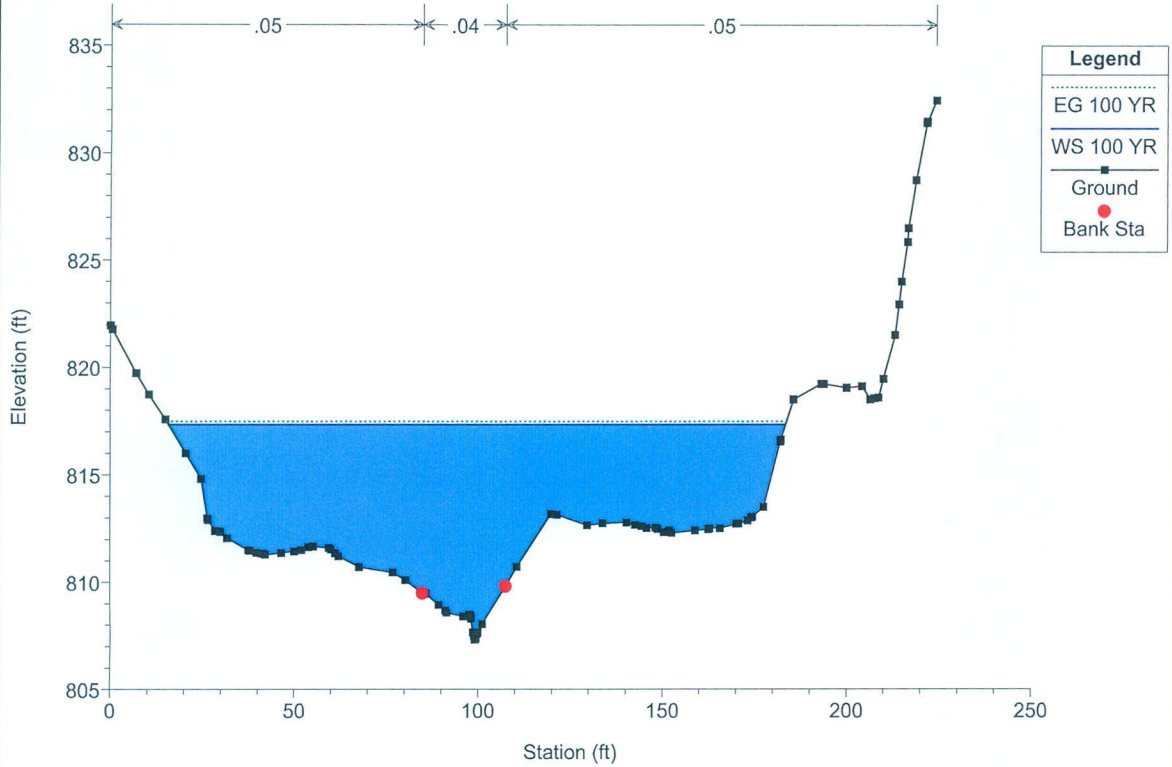
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CR 11 Station 275+06



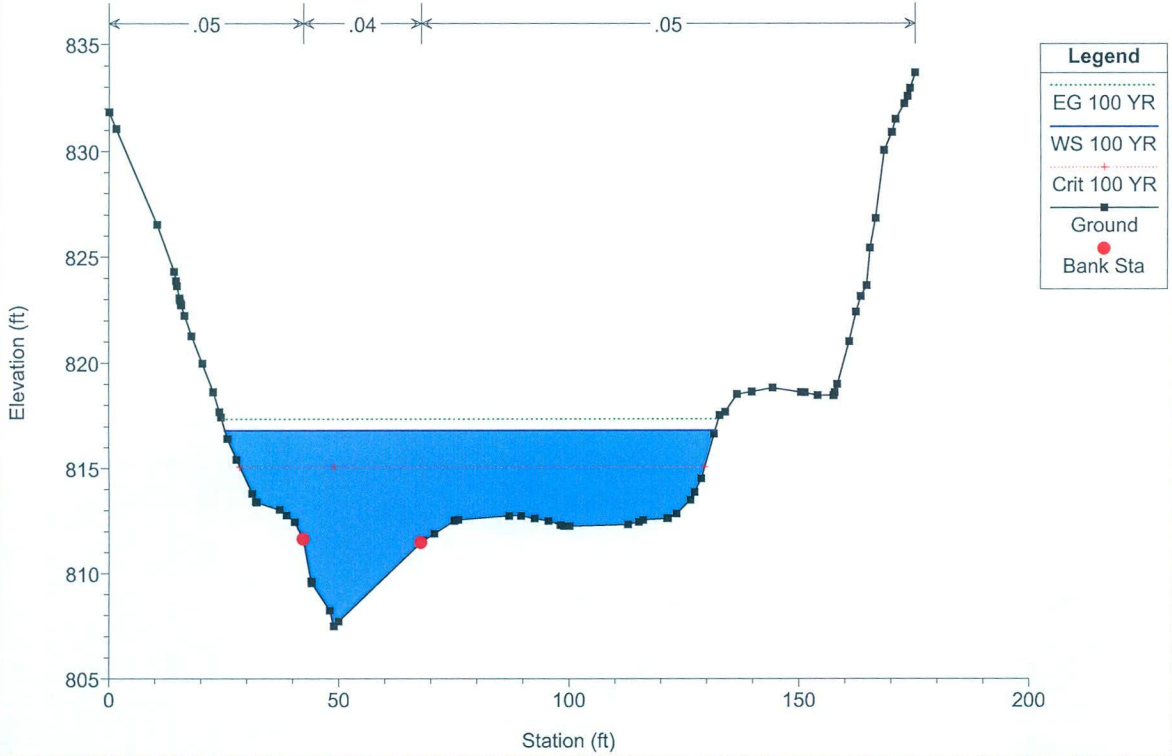
183783-Arnolds Plan: 183783-Arnolds-Existing 1/14/2020
CR 11 Station 275+92



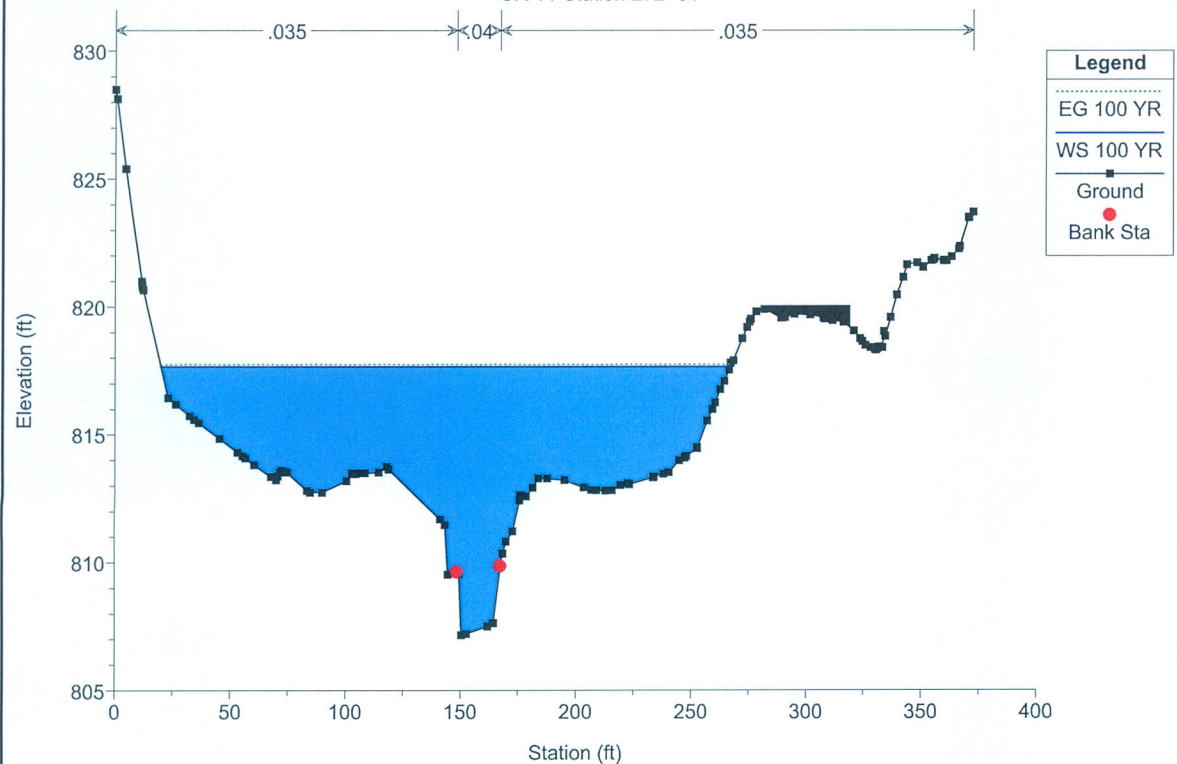
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CR 11 Station 276+72



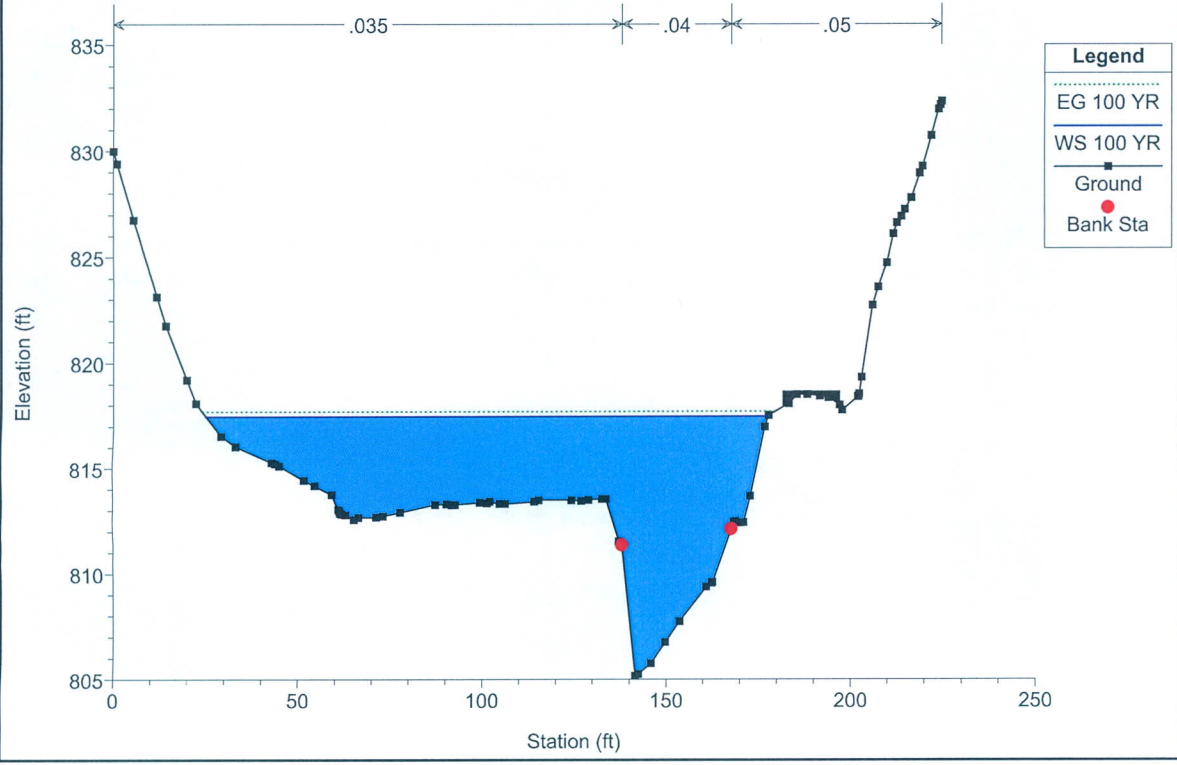
183783-Arnolds Plan: 183783-Arnolds-Existing 1/14/2020
CR 11 Station 276+88



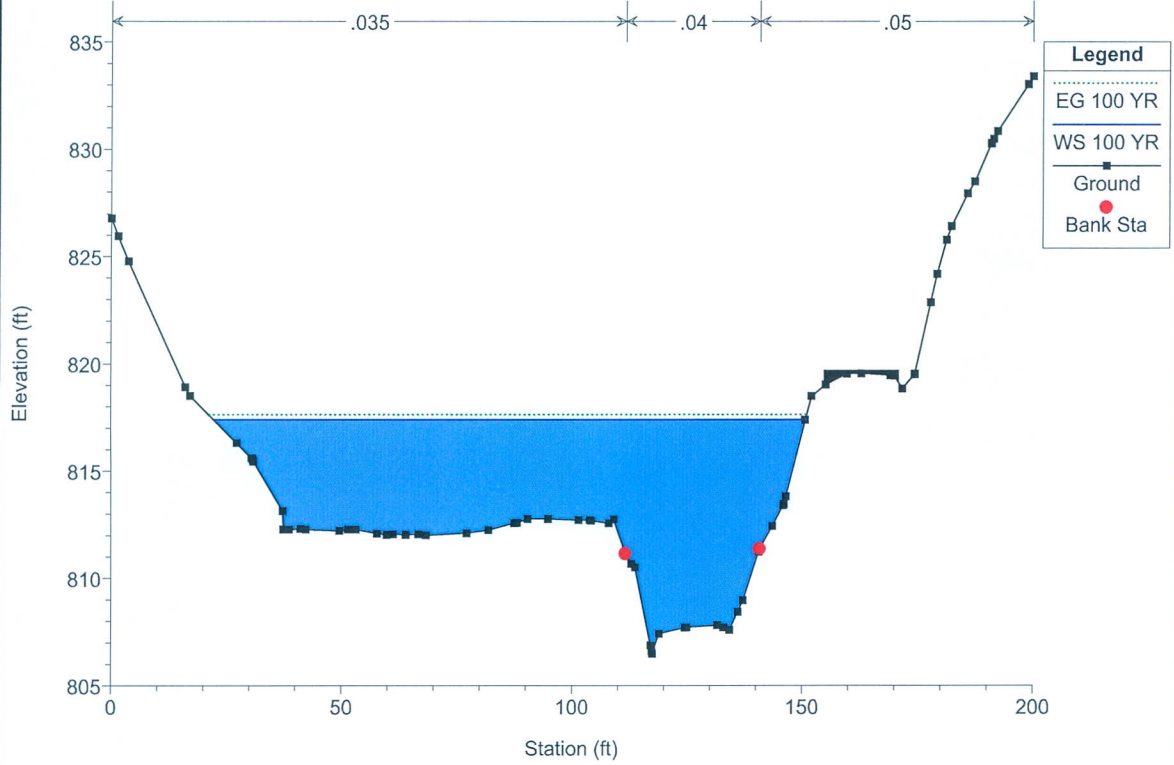
183783-Arnolds Plan: 183783-Arnolds-Proposed 1/14/2020
 CR 11 Station 272+61



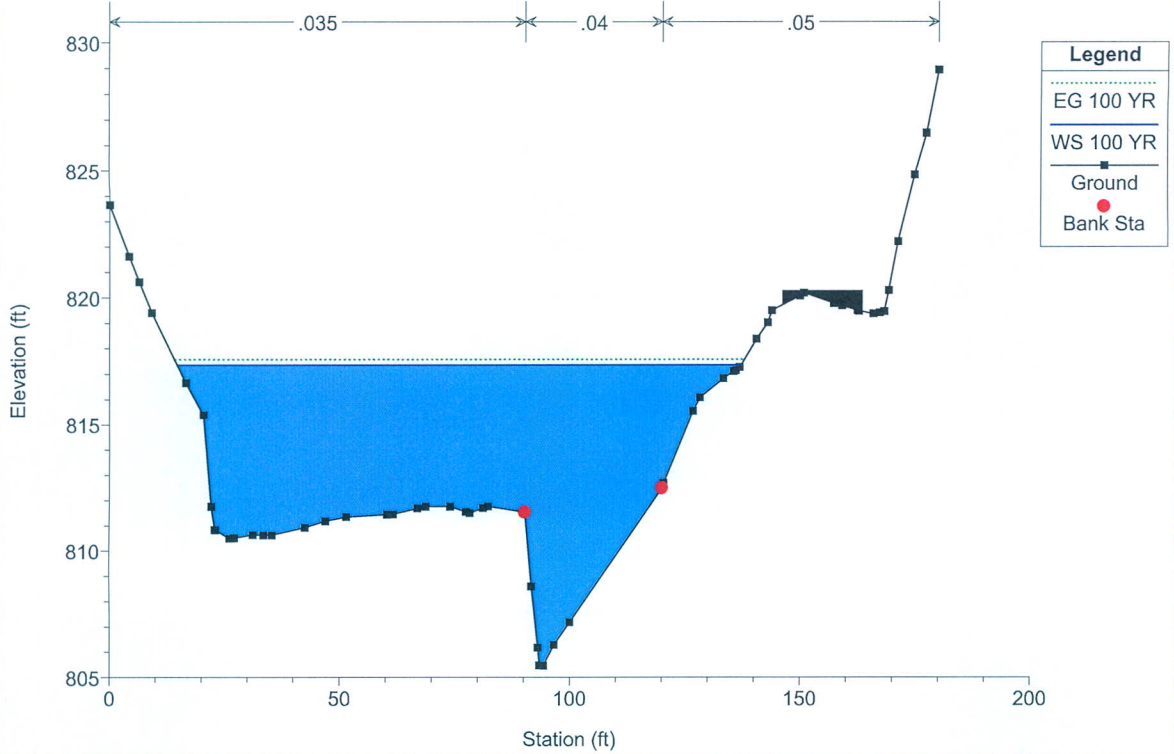
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 CR 11 Station 274+30



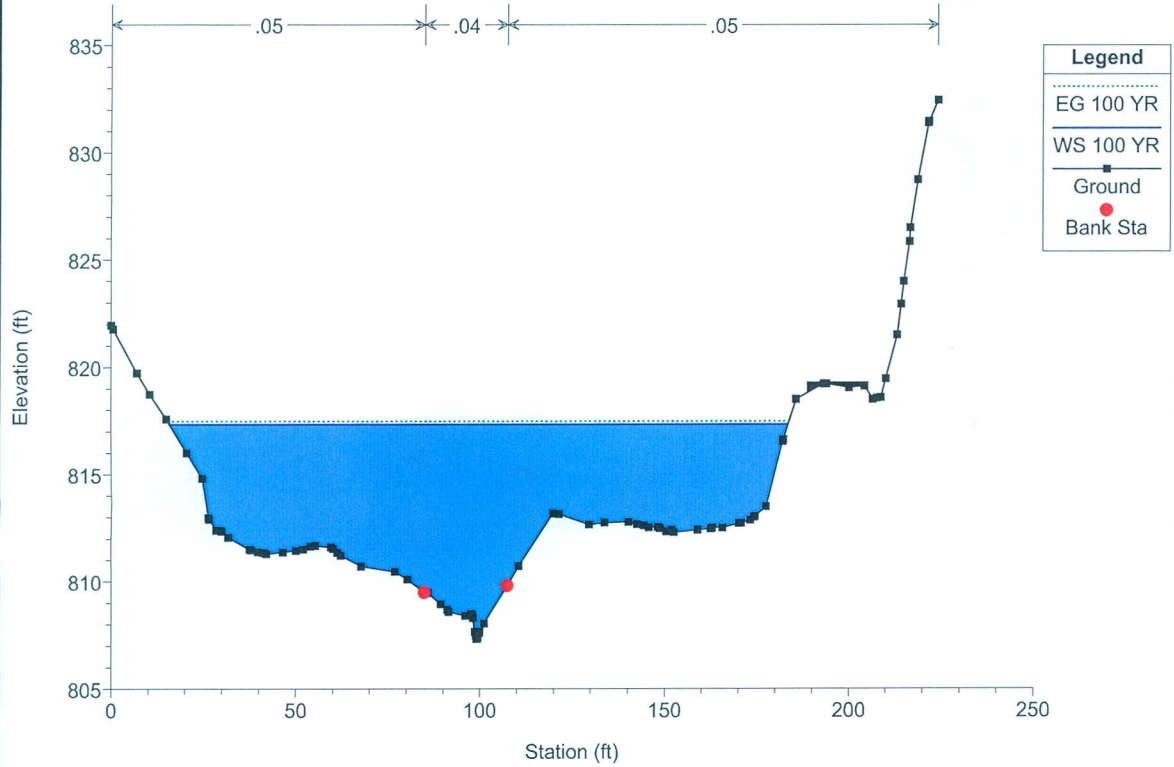
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CR 11 Station 275+06



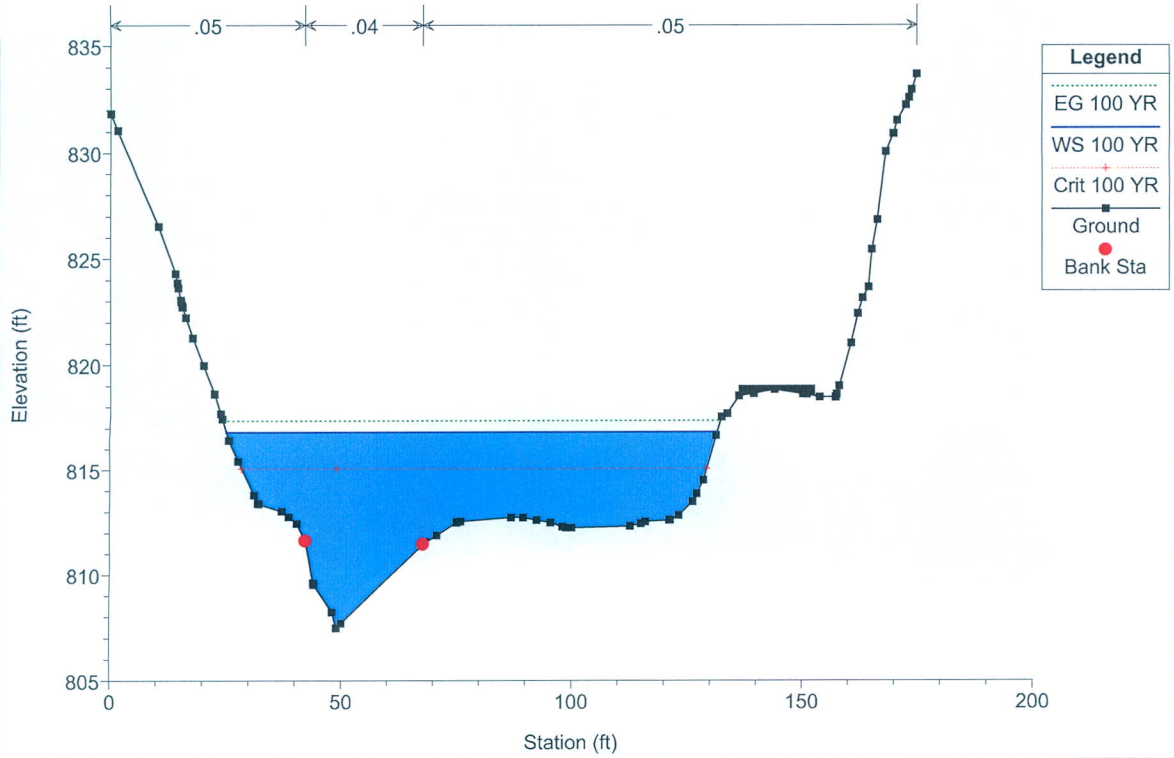
183783-Arnolds Plan: 183783-Arnolds-Proposed 1/14/2020
CR 11 Station 275+92



183783-Arnolds Plan: 183783-Arnolds-Proposed 1/14/2020
 CR 11 Station 276+72



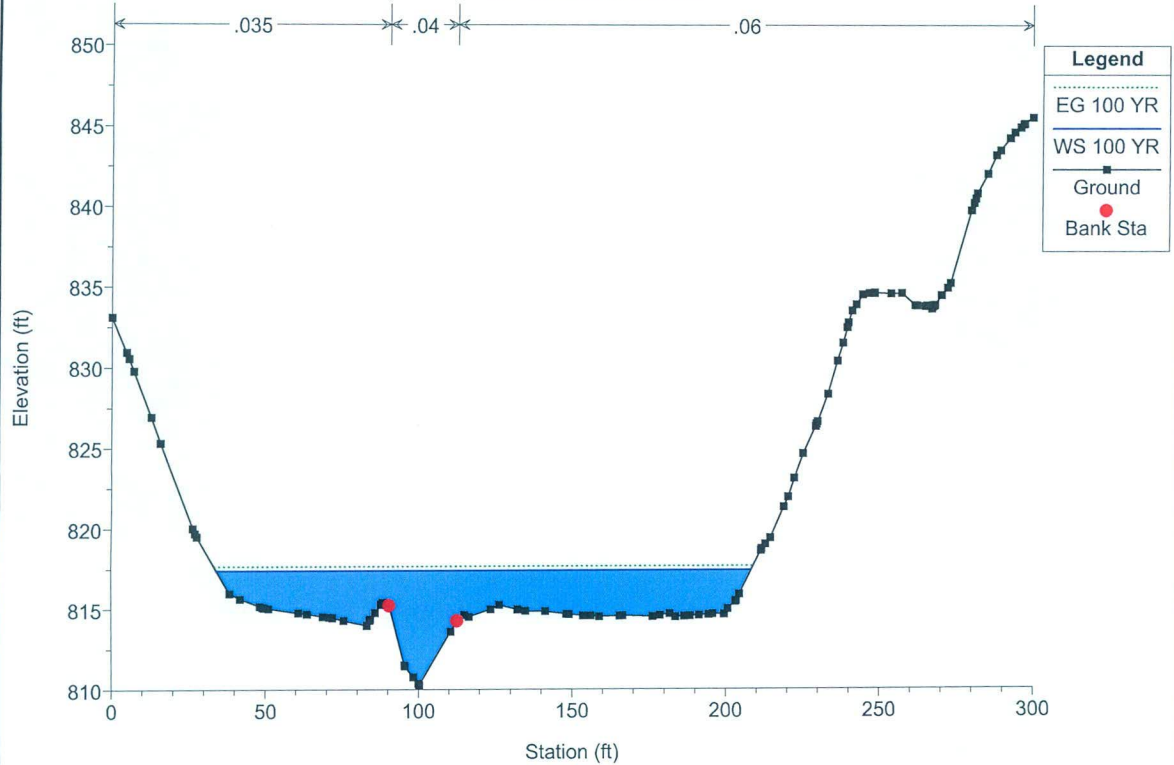
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 CR 11 Station 276+88



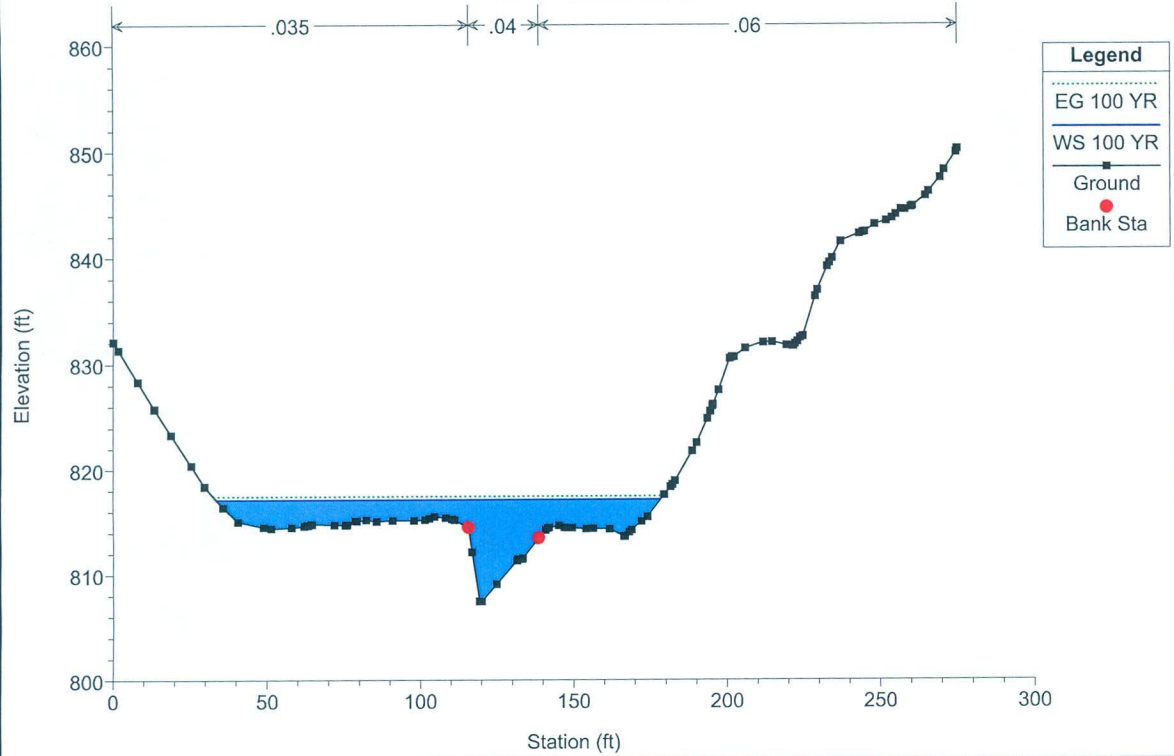
HEC-RAS River: Left Fork Arnold Reach: Left Fork Arnold Profile: 100 YR

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Left Fork Arnold	370	100 YR	Existing	1747.00	810.27	817.40		817.67	0.002620	5.37	500.89	174.33	0.42
Left Fork Arnold	370	100 YR	Proposed	1747.00	810.27	817.41		817.67	0.002620	5.37	500.90	174.33	0.42
Left Fork Arnold	300	100 YR	Existing	1747.00	807.48	817.11		817.47	0.002706	5.93	422.21	144.58	0.41
Left Fork Arnold	300	100 YR	Proposed	1747.00	807.48	817.11		817.47	0.002706	5.93	422.20	144.58	0.41
Left Fork Arnold	225	100 YR	Existing	1747.00	810.25	816.90		817.27	0.002630	5.73	385.13	130.09	0.43
Left Fork Arnold	225	100 YR	Proposed	1747.00	810.25	816.90		817.27	0.002630	5.73	385.12	130.08	0.43
Left Fork Arnold	150	100 YR	Existing	1747.00	809.65	816.31		816.99	0.005103	8.03	301.82	118.71	0.60
Left Fork Arnold	150	100 YR	Proposed	1747.00	809.65	816.31		816.99	0.005104	8.03	301.80	118.71	0.60
Left Fork Arnold	75	100 YR	Existing	1747.00	809.48	816.09	815.50	816.60	0.003927	6.81	334.36	139.35	0.51
Left Fork Arnold	75	100 YR	Proposed	1747.00	809.48	816.09	815.50	816.60	0.003924	6.81	334.36	131.90	0.51
Left Fork Arnold	0	100 YR	Existing	1747.00	808.15	815.83	815.21	816.33	0.004002	6.80	338.53	132.69	0.51
Left Fork Arnold	0	100 YR	Proposed	1747.00	808.15	815.83	815.21	816.33	0.004002	6.80	338.53	132.69	0.51

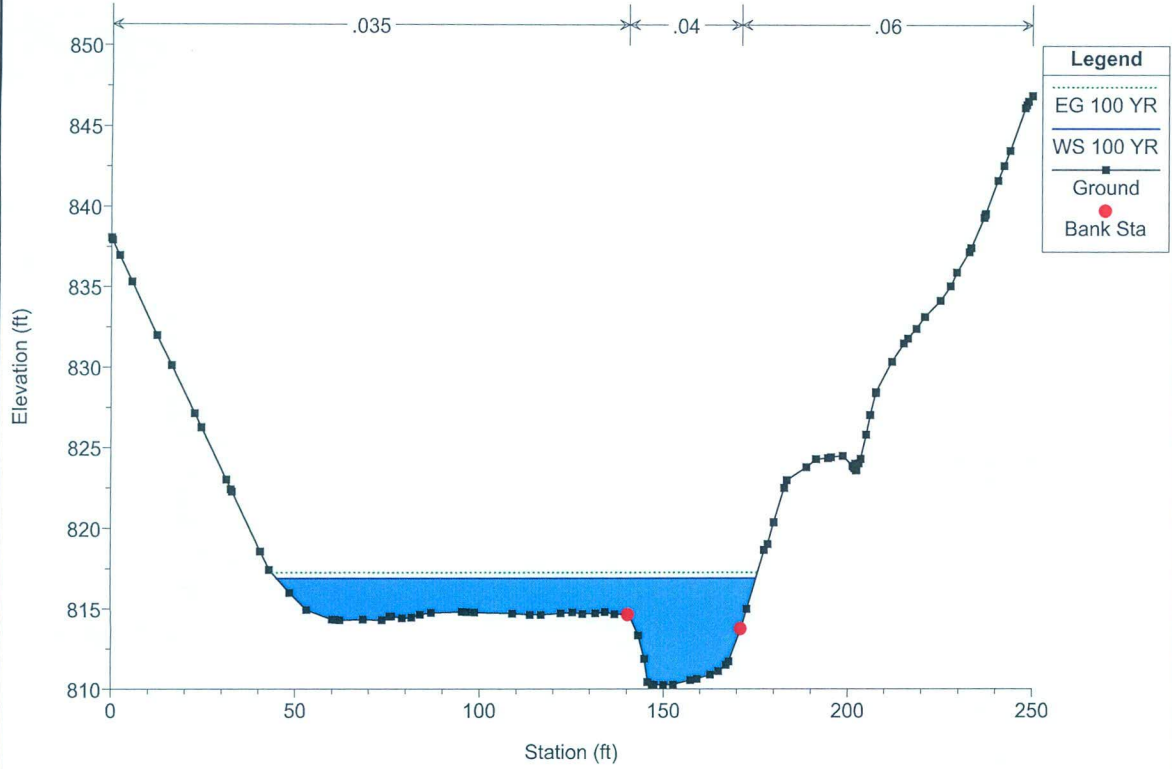
183783-Floodplain Plan: 183783-Existing 1/14/2020
 CR 11/4 Station 117+61



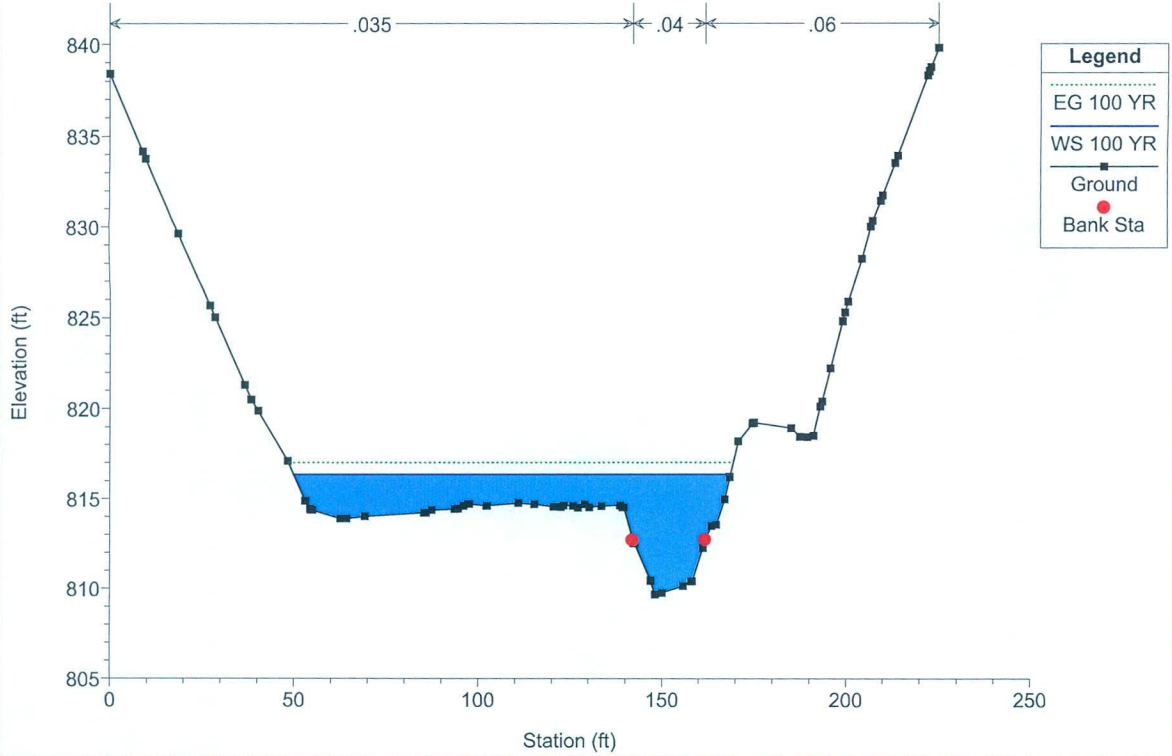
183783-Floodplain Plan: 183783-Existing 1/14/2020
 CR 11/4 Station 118+63



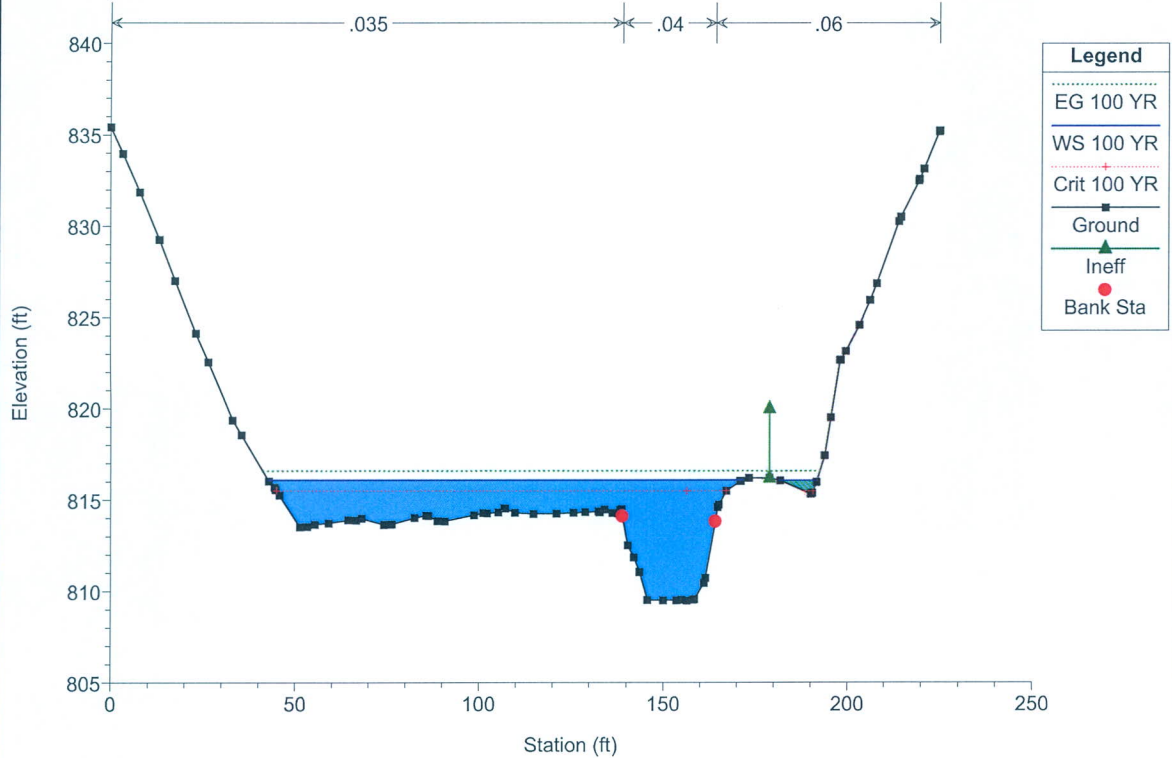
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 CR 11/4 Station 119+59



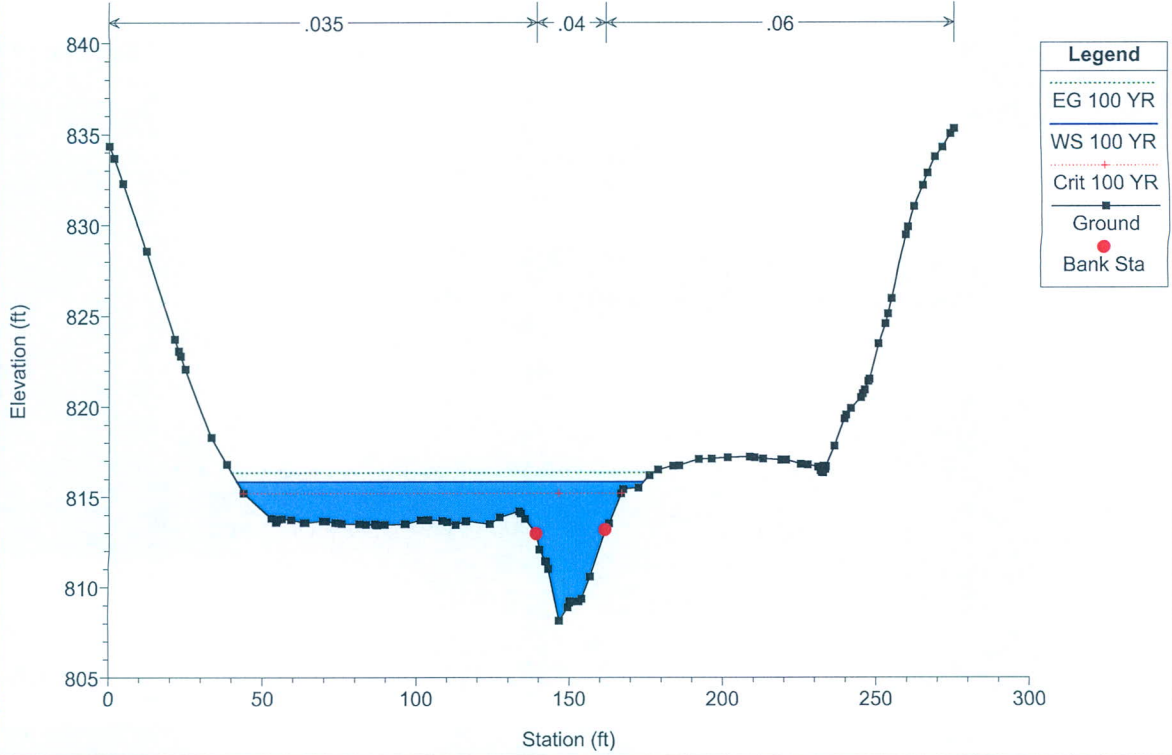
183783-Floodplain Plan: 183783-Existing 1/14/2020
 CR 11/4 Station 120+43



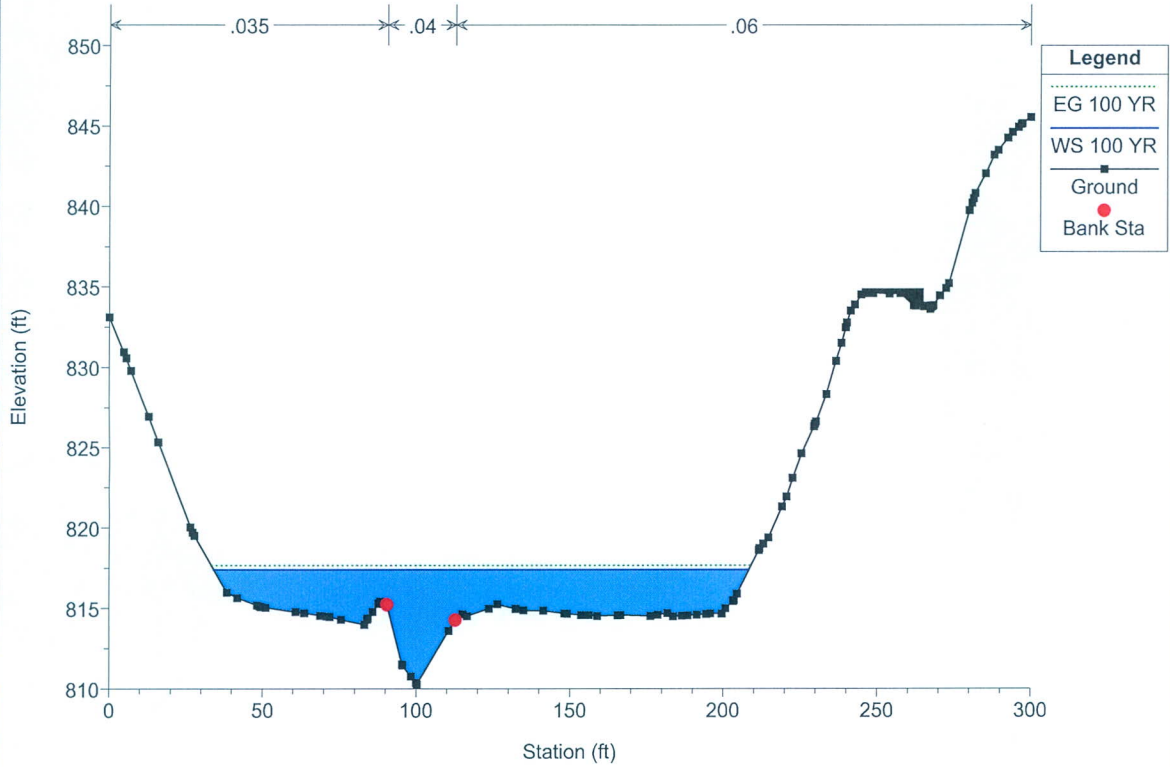
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CR 11/4 Station 121+16



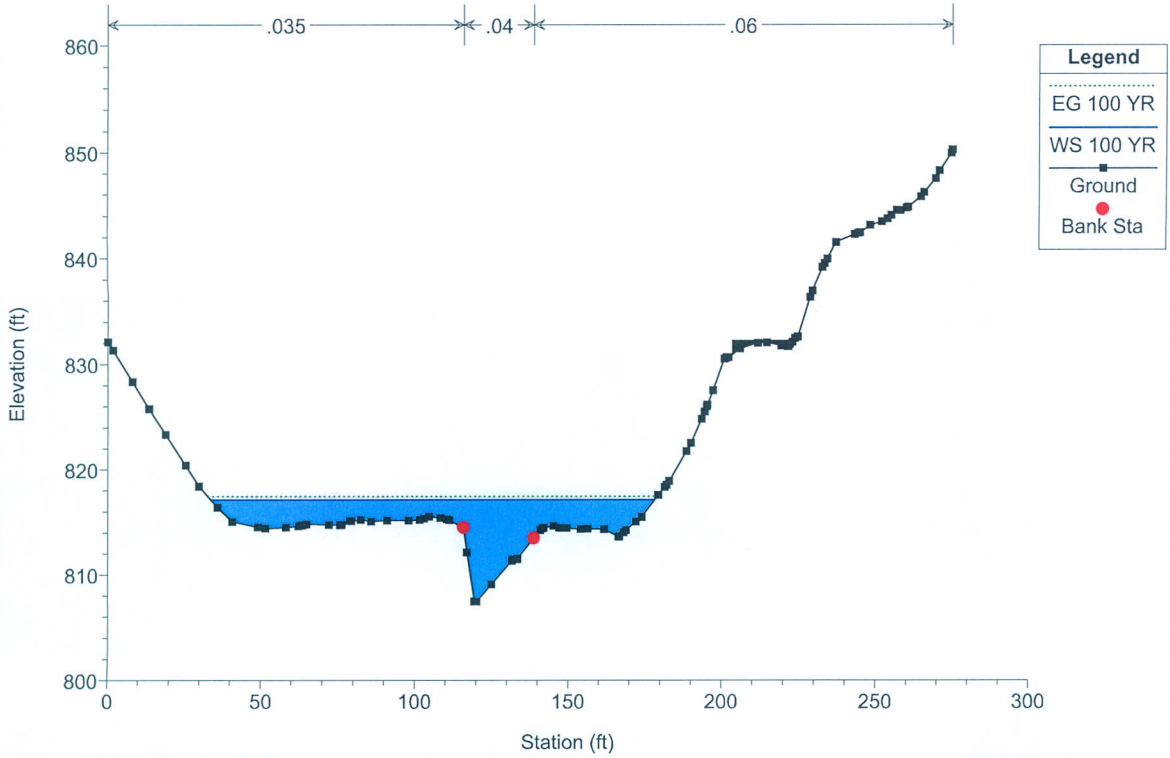
183783-Floodplain Plan: 183783-Existing 1/14/2020
CR 11/4 Station 122+17



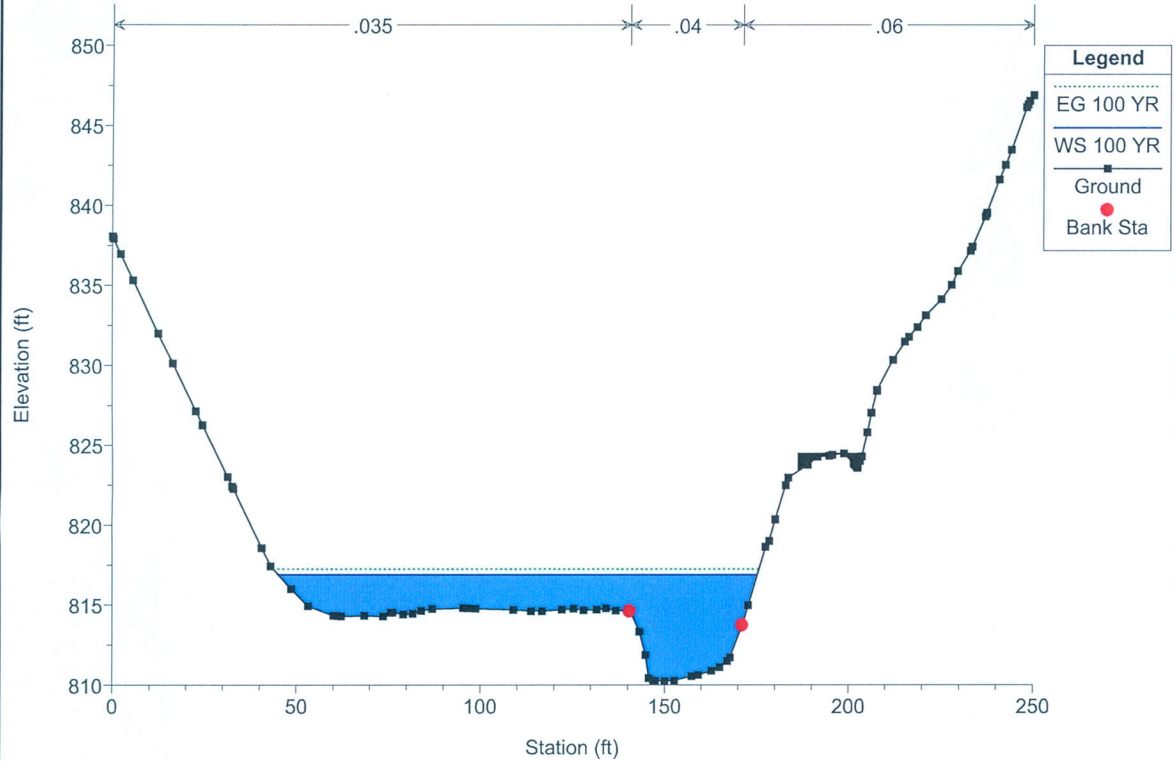
183783-Floodplain Plan: 183783-Proposed 1/14/2020
 CR 11/4 Station 117+61



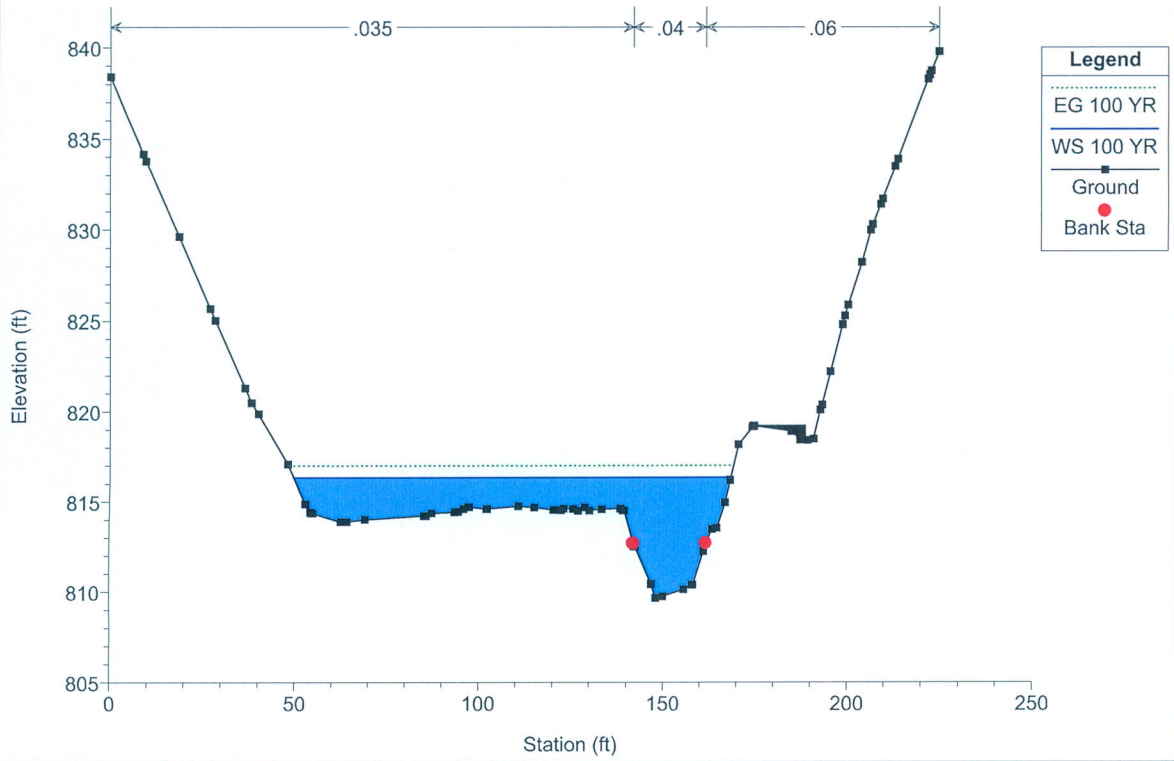
183783-Floodplain Plan: 183783-Proposed 1/14/2020
 CR 11/4 Station 118+63



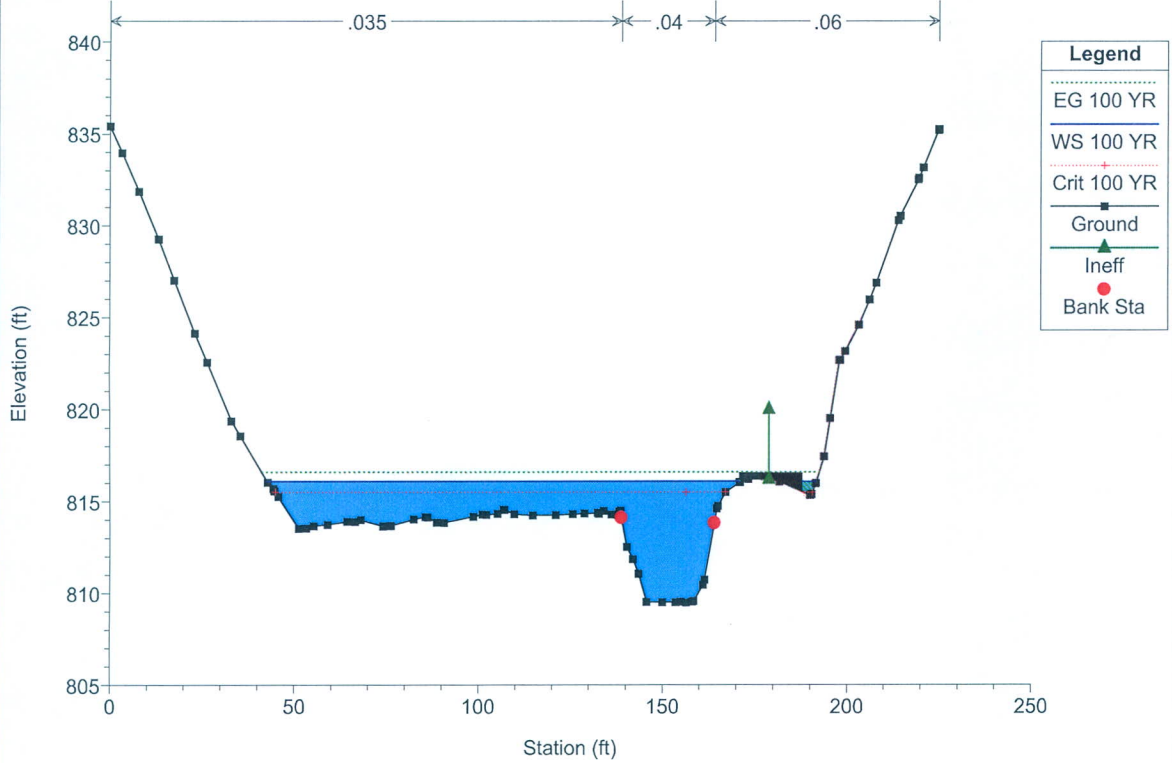
183783-Floodplain Plan: 183783-Proposed 1/14/2020
 CR 11/4 Station 119+59



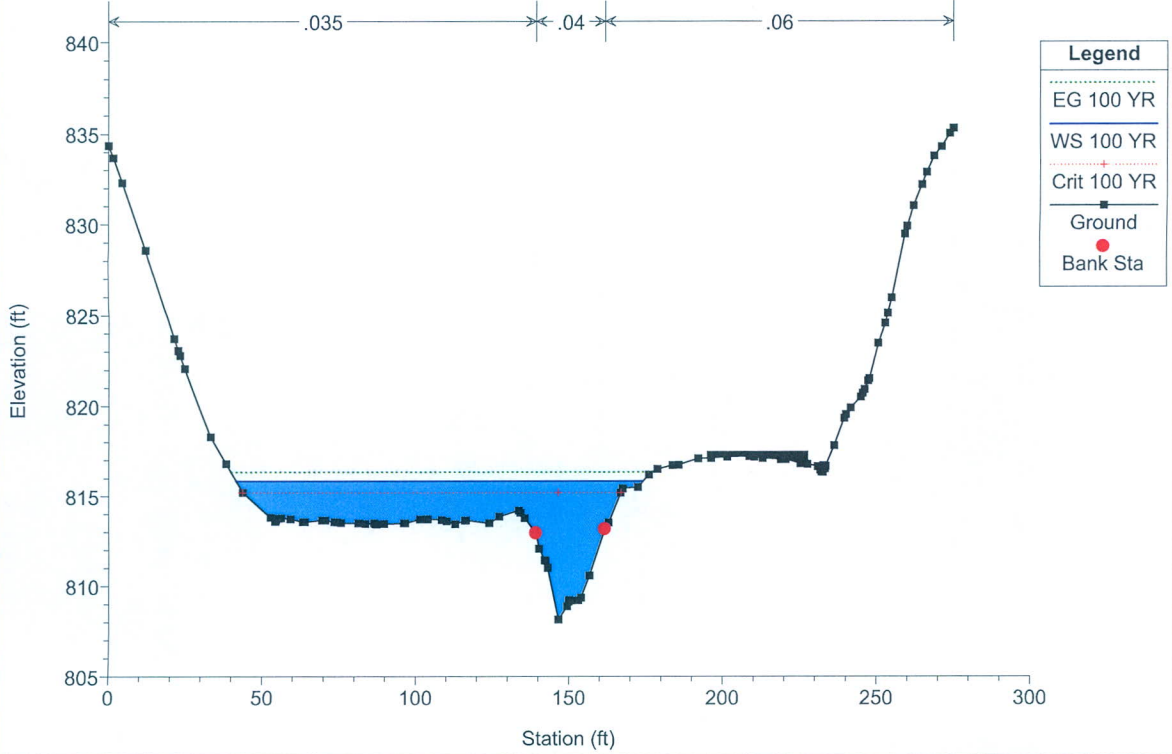
183783-Floodplain Plan: 183783-Proposed 1/14/2020
 CR 11/4 Station 120+43



183783-Floodplain Plan: 183783-Proposed 1/14/2020
 CR 11/4 Station 121+16



183783-Floodplain Plan: 183783-Proposed 1/14/2020
 CR 11/4 Station 122+17





ATTACHMENT D
PERMITTING AND COORDINATION

Permitting and Coordination

Permitting Agency	Permit/Coordination Required	Submitted	Received (Anticipated)	Status
USACE ¹	Nationwide Permit #14	12/20/2019	(2/4/2020)	Pending
USFWS ²	Threatened and Endangered Species Coordination	12/20/2019	01/10/2020	Approved
WVSHPO ³	Section 106 Consultation	Cultural Resources Assessment Included in this Nationwide Permit Submittal (Attachment E)		Pending
WVDNR-OLS ⁴	Stream Activity Application	12/20/2019	1/31/2020	Approved
WVDNR-OLS	Spawning Waiver	12/20/2019	2/5/2020	Approved
WVDNR-WRS ⁵	State Lands Threatened and Endangered Species Coordination	12/20/2019	1/6/2020	Approved
Doddridge County Floodplain Manager	Floodplain Permit	02/19/2020	(03/19/2020)	Pending
WVDEP ⁶	401 WQC Program Notification	12/20/2019	1/6/2020	Approved
WVDEP	Construction Stormwater General Permit	1/8/2020	(2/28/2020)	Pending

- 1 United States Army Corps of Engineers
- 2 United States Fish and Wildlife Service
- 3 West Virginia Division of Culture and History, State Historic Preservation Office
- 4 West Virginia Division of Natural Resources - Office of Land and Streams
- 5 West Virginia Division of Natural Resources – Wildlife Resource Section
- 6 West Virginia Department of Environmental Protection



United States Department of the Interior



FISH AND WILDLIFE SERVICE

West Virginia Field Office
90 Vance Drive
Elkins, West Virginia 26241

Contact Name: Tyler Streb

Email Address or Fax Number: tstreb@anteroresources.com

FWS File # 2020-I-0367 **All future correspondence should clearly reference this FWS File #.**

Project: Arnolds Creek Road (CR11) Punkin Center Road (CR11/4) Roadway Improvements Project, Doddridge County, WV

Date of Letter Request: December 20, 2019

This is in response to your letter requesting threatened and endangered species information in regard to the proposed project listed above. These comments are provided pursuant to the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U. S. C. 1531 *et seq.*).

Two federally listed species could occur in the project area: the endangered Indiana bat (*Myotis sodalis*) and the threatened northern long-eared bat (*Myotis septentrionalis*) (NLEB).

The Indiana bat and NLEB may use the project area for foraging and roosting between April 1 and November 15. Indiana bat summer foraging habitats are generally defined as riparian, bottomland, upland forest, and old fields or pastures with scattered trees. Roosting/maternity habitat consists primarily of live or dead hardwood tree species which have exfoliating bark that provides space for bats to roost between the bark and the bole of the tree. Tree cavities, crevices, splits, or hollow portions of tree boles and limbs also provide roost sites. In West Virginia, the U.S. Fish and Wildlife Service (Service) considers all forested habitat containing trees greater than or equal to 5 inches in diameter at breast height to be potentially suitable as summer roosting and foraging habitat for the Indiana bat.

Indiana bats feed on emerged aquatic and terrestrial flying insects. Moths, caddisflies, flies, mosquitoes, and midges are major prey items. Aquatic insects that have concentrated emergences or that form large mating aggregations above or near water appear to be preferred prey items. As a result, streams, wetlands, and associated riparian forests are often preferred foraging habitats for pregnant and lactating Indiana bats. Indiana bats also forage within the canopy of upland forests, over clearings with early successional vegetation (e.g., old fields), along the borders of croplands, along wooded fencerows, and over farm ponds in pastures. Increased erosion and sedimentation of streams reduces diversity and biomass of benthic invertebrates, i.e. insects. Some projects propose impacts to aquatic features such as streams or wetlands, which could result in a decrease in insects available to both bat species for foraging.

Updated April 2018

Similar to the Indiana bat, NLEB foraging habitat includes forested hillsides and ridges, and small ponds or streams. NLEB are typically associated with large tracts of mature, upland forests with more canopy cover than is preferred by Indiana bats. NLEB seem to be flexible in selecting roosts. They choose roost trees based on suitability to retain bark or provide cavities or crevices, and this species is known to use a wider variety of roost types than the Indiana bat. Males and non-reproductive females may also roost in cooler places like caves and mines. Although rare, this bat has also been found roosting in structures like barns and sheds.

Indiana bats and NLEB use caves or mine portals for winter hibernation between November 15 and March 31. These species also use the hibernacula and the areas around them for fall-swarming and spring-staging activity (August 15 to November 14 and April 1 to May 14, respectively). Some males have been known to stay close to the hibernacula during the summer and may use the hibernacula as summer roosts. There may be other landscape features being used as hibernacula by NLEB during the winter that have yet to be documented.

The Service has reviewed the number of acres of potentially suitable foraging and roosting habitat on the West Virginia landscape available to each Indiana bat, versus the total acreage of forest. On that basis, we have determined that small projects, more than 10 miles from a known priority 1 or 2 Indiana bat hibernaculum, more than 5 miles from a known priority 3 or 4 Indiana bat hibernaculum, or more than 2.5 miles from any known maternity roost, or more than 5 miles from summer detection sites where no roosts were identified, that affect less than 17 acres of forested habitat, and will not affect any potential hibernacula, will have a very small chance of resulting in direct or indirect effects to the Indiana bat, and therefore these effects are considered discountable. **Please note that the Service may review and update this assessment at any time as new information becomes available.**

The Service does not anticipate that this project is likely to adversely affect the Indiana bat because your project: 1) will affect less than 17 acres of potential Indiana bat foraging or roosting habitat; 2) is not within any of the Indiana bat hibernacula or summer use buffers described above; 3) will not affect any potential caves or mines that could be used as hibernacula for this species; and 4) effects to aquatic features used for foraging habitat will be insignificant.

The NLEB may occur within the range of the proposed project, and may be affected by the proposed construction and operation of this project. Any take of NLEB occurring in conjunction with these activities that complies with the conservation measures (as outlined in the 4(d) rule), as necessary, is exempted from section 9 prohibitions by the 4(d) rule and does not require site specific incidental take authorization. Note that the 4(d) rule does not exempt take that may occur as a result of adverse effects to hibernacula and that no conservation measures are required as part of the 4(d) rule unless the proposed project: 1) involves tree removal within 0.25 miles of known NLEB hibernacula; or 2) cuts or destroys known, occupied maternity roost trees or any other trees within a 150-foot radius around known, occupied maternity tree during the pup season (June 1 to July 31). This proposed project is not located within any of these radii around known hibernacula or roost trees and will not affect any known NLEB hibernacula, therefore any take of NLEB associated with this project is exempted under the 4(d) rule and no conservation measures are required.

This letter provides technical assistance only and does not serve as a completed section 7 consultation document. If there is a Federal nexus for the project (e.g., Federal funding provided, Federal permits required to construct), no tree clearing or any project construction activities on any portion of the parcel should occur until consultation under section 7 of the ESA, between the Service and the Federal action agency, is completed. Section 7 consultation is not complete until the Federal action agency submits a determination of effects to this office, the Service concurs with the Federal action agency's determination, and the Federal action agency agrees to limit tree clearing to under 17 acres as a mandatory condition for any permit decision rendered for this project. All measures must be implemented as proposed. If there is no Federal nexus associated with this project, then no further coordination with this office is required.

Should project plans change or amendments be proposed that we have not considered in your proposed action, or if additional information on listed and proposed species becomes available, or if new species become listed or critical habitat is designated, this assessment may be reconsidered.

If you have any questions regarding these comments, please contact the biologist listed below at (304) 636-6586 or at the letterhead address.

Tieman Lennor

Date: 1/10/2020

Biologist

Barbara Douglas

Acting

Date: 1/10/2020

Field Supervisor



DIVISION OF NATURAL RESOURCES
324 4th Avenue, Room 342
South Charleston, West Virginia 25303-1228
Telephone 304-558-2754
Fax 304-558-2768
TDD 304-558-1439
TDD 800-354-6087

Stephen S. McDaniel
Director

January 31, 2020

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

Re: LS-20-VI/09-204

Antero Resources Corporation
Tyler Streb
c/o Kleinfelder, Inc.
Attention: John Lewis
51 Dutilh Road
Cranberry Township, PA 16066

Dear Mr. Streb:

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 culverts in the streambeds with inlet/outlet protection and installing additional erosion and sediment control of various lengths (see Exhibit A) at four (4) separate locations (Arnolds Creek Road (CR 11) Punkin Center Road (CR 11/4) Roadway Improvements) along unnamed tributaries of Left Fork Arnold Creek, near West Union 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:

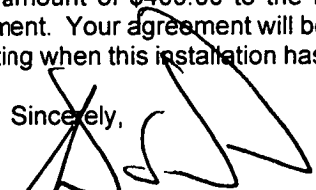
1. The USACE may require either an Individual Clean Water Act 404 permit or a Nationwide Permit. Contact the Huntington District (304-399-5210) or the Pittsburgh District (412-395-7155) from more information. Information can also be found at <http://www.lrh.usace.army.mil/Missions/Regulatory.aspx>
2. 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.**

Your payment is now due and payable in the amount of \$400.00 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 transferred or removed.

Sincerely,


Stephen S. McDaniel
Director

SSM:cb

Antero Resources Corporation

LS-20-VI/09-204

Page 3

January 31, 2020

cc: Office of Land and Streams
DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
Natural Resources Police Officer
Danielle Elliott, WV DNR Coordination Unit

Exhibit A

LS-20-VI/09-204

Table 1: Arnolds Creek Road (CR 11) Punkin Center Road (CR 11H4) Roadway Improvements: Crossings of WVDNR-OLS Regulated Jurisdictional Waters in the LOD

Stream ID	Local Waterbody	Stream Regime	County	Nearest City/Town	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of the Stream impacts (Working Days)	Purpose of Impact	Linear Foot of Impact	Proposed/Existing/Additional Linear Feet of Bank Work: Culvert Bridge Width and Length/Pipeline Size	Description of Crossing	Comments
* Cardio_Stream_WB-16 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	39.259473	-80.782598	Permanent	March 2020	3	Structure	38	Proposed Culvert: High Density Polyethylene (HDPE), Diameter 24", Length 27'	<ul style="list-style-type: none"> Culvert Replacement Impact 77' - High Density Polyethylene (HDPE), Diameter 24", Length 27' Inlet Protection Impact 3' - Rip-Rap Installation Outlet Protection Impact 8' - Rip-Rap Installation 	<ul style="list-style-type: none"> Existing Culvert: Corrugated Metal Pipe (CMP), Diameter 18", Length 19' Culvert Replacement Length will Extend 4' Past Each Side of Existing Culvert
							Temporary	March 2020	3	Right of Entry	14	14	<ul style="list-style-type: none"> Temporary Erosion and Sediment (EAS) Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features The Culvert Replacement may Utilize Temporary Ditch Checks, Filter Fabric, and/or Sand Bags, at the Discretion of the Contractor and Based on Current Field Conditions
* Cardio_Stream_WB-22 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	39.262997	-80.796569	Permanent	March 2020	3	Structure	7	Proposed Culvert Installation: HDPE, Diameter 24", Length 24'	<ul style="list-style-type: none"> Culvert Installation Impact 4' - HDPE, Diameter 24", Length 24' Inlet Protection Impact 3' - Rip-Rap Installation 	<ul style="list-style-type: none"> Existing Culvert: N/A Culvert Replacement to Occur on Cardio_Stream_WB-12, which extends into the Confluence of the Stream (Cardio_Stream_WB-22)
							Temporary	March 2020	3	Right of Entry	9	9	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features The Culvert Replacement may Utilize Temporary Ditch Checks, Filter Fabric, and/or Sand Bags, at the Discretion of the Contractor and Based on Current Field Conditions
* Cardio_Stream_WB-12 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	39.262957	-80.796625	Permanent	March 2020	3	Structure	154	Proposed Culvert Replacement: HDPE, Diameter 24", Length 24'	<ul style="list-style-type: none"> Culvert Replacement Impact 20' - HDPE, Diameter 24", Length 24' Outlet Protection Impact 8' - Rip-Rap Installation Stream Relocation Impact 120' - Grading & Rip-Rap Stabilization of Stream Channel Captured within Ditch Line 	<ul style="list-style-type: none"> Existing Culvert: CMP Diameter 24", Length 20' Culvert Replacement to extend into the Confluence of Cardio_Stream_WB-22 Existing Stream Channel Captured in Ditch Line to be Relocated due to Road Widening
							Temporary	March 2020	3	Right of Entry	12	12	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features The Culvert Replacement may Utilize Temporary Ditch Checks, Filter Fabric, and/or Sand Bags, at the Discretion of the Contractor and Based on Current Field Conditions
Cardio_Stream_WB-21 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	39.263253	-80.796867	Permanent	March 2020	3	Right of Entry	3		<ul style="list-style-type: none"> Stream Relocation Impact 3' - Grading & Rip-Rap Stabilization of Stream Channel Captured within Ditch Line 	<ul style="list-style-type: none"> Stream Confluence with Cardio_Stream_WB-12 to be Graded and Stabilized
							Temporary	March 2020	3	Right of Entry	3	3	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features
* KLF_Stream03 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	39.270064	-80.804081	Permanent	March 2020	3	Structure	33	Proposed Culvert Replacement: HDPE, Diameter 18", Length 22'	<ul style="list-style-type: none"> Culvert Replacement Impact 22' - HDPE, Diameter 18", Length 22' Inlet Protection Impact 3' - Rip-Rap Installation Outlet Protection Impact 8' - Rip-Rap Installation 	<ul style="list-style-type: none"> Existing Culvert: CMP, Diameter 18", Length 10' Culvert Replacement Length will Extend 3' Past Each Side of Existing Culvert
							Temporary	March 2020	3	Right of Entry	17	17	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features The Culvert Replacement may Utilize Temporary Ditch Checks, Filter Fabric, and/or Sand Bags, at the Discretion of the Contractor, Based on Current Field Conditions
KLF_Stream02 (EPH)	UNT to Arnolds Creek	Ephemeral	Doddridge	West Union	39.271124	-80.806565	Temporary	March 2020	3	Right of Entry	5		<ul style="list-style-type: none"> Temporary EAS - Perimeter Controls for Construction Activity Stream Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features
Cardio_Stream_WB-06 (NT)	UNT to Arnolds Creek	Intermittent	Doddridge	West Union	39.272208	-80.80775	Temporary	March 2020	3	Right of Entry	29		<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity Stream & Culvert Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features
KLF_Stream01 (EPH)	UNT to Arnolds Creek	Ephemeral	Doddridge	West Union	39.273028	-80.809709	Temporary	March 2020	3	Right of Entry	4		<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity Stream Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features
Cardio_Stream_WB-03 (EPH)	UNT to Arnolds Creek	Ephemeral	Doddridge	West Union	39.274309	-80.811094	Temporary	March 2020	3	Right of Entry	30		<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity Stream & Culvert Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features
Cardio_Stream_WB-05 (EPH)	UNT to Arnolds Creek	Ephemeral	Doddridge	West Union	39.275257	-80.811248	Temporary	March 2020	3	Right of Entry	30		<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity Stream & Culvert Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features



DIVISION OF NATURAL RESOURCES
324 4th Avenue, Room 342
South Charleston, West Virginia 25303-1228
Telephone 304-558-2754
Fax 304-558-2768
TDD 304-558-1439
TDD 800-354-6087

Stephen S. McDaniel
Director

January 31, 2020

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

Re: R-20-VI/09-205

Antero Resources Corporation
Tyler Streb
c/o Kleinfelder, Inc.
Attention: John Lewis
51 Dutilh Road
Cranberry Township, PA 16066

Dear Mr. Streb:

The West Virginia Division of Natural Resources (WVDNR) hereby grants to you for a term of one (1) years, from the date hereof, a License and Right of Entry for the purpose of relocating the stream, stabilizing the stream banks and installing erosion and sediment control for three feet (3') at one (1) location and cleaning out the stream and installing erosion and sediment controls for various lengths (see Exhibit A) at five (5) separate locations (Arnolds Creek Road (CR 11) Punkin Center Road (CR 11/4) Roadway Improvements) along an unnamed tributary of Left Fork Arnold Creek and unnamed tributaries of Arnold Creek near West Union 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:

1. The USACE may require either an Individual 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>

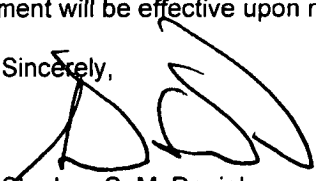
2. The WVDEP (304-926-0499) may require the following permits:
 - a. A Clean Water Act Section 401 Water Quality Certification
<http://www.dep.wv.gov/WWE/Programs/Pages/401Certification.aspx>
 - b. Construction Stormwater Site Registration and Notice of Intent. Not needed if disturbance less than 1-acre
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.**

Antero Resources Corporation
R-20-VI/09-205
Page 3
January 31, 2020

Your check in the amount of \$600.00 is now due and payable to the Division of Natural Resources covering the one-time fee for this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,



Stephen S. McDaniel
Director

SSM:cb

cc: Office of Land and Streams
DNR Fish Biologist
Jeremy Bandy, Environmental Enforcement
Natural Resources Police Officer
Danielle Elliot, WV DNR Coordination Unit

Table 1: Arnolds Creek Road (CR 11) Pankin Center Road (CR 11M) Roadway Improvements: Crossings of WWDNR-OLS Regulated Jurisdictional Waters in the LQD

Stream ID	Location	Stream Type	County	Section	West Union	Parcel ID	County	Structure	Length	Structure	Structure	Structure	Structure	Structure	Structure	Structure	Structure	Structure	Structure
Cardno_Stream_WB-16 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	33.256473	-80.792906	Permanent	March 2020	3	Structure	38	Proposed Culvert: High Density Polyethylene (HDPE), Diameter 24", Length 27'	<ul style="list-style-type: none"> Culvert Replacement Impact 27' - High Density Polyethylene (HDPE), Diameter 24", Length 27' Inlet Protection Impact 3' - Rip-Rap Installation Outlet Protection Impact 8' - Rip-Rap Installation 	<ul style="list-style-type: none"> Existing Culvert: Corrugated Metal Pipe (CMP), Diameter 18", Length 17' Culvert Replacement Length will Extend 4' Past Each Side of Existing Culvert 					
								March 2020	3	Right of Entry	14	14	<ul style="list-style-type: none"> Temporary Erosion and Sediment (EAS) Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features The Culvert Replacement may Utilize Temporary Ditch Checks, Filter Fabric, and/or Sand Bags, at the Discretion of the Contractor and Based on Current Field Conditions 					
Cardno_Stream_WB-22 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	33.252997	-80.795589	Permanent	March 2020	3	Structure	7	Proposed Culvert Installation: HDPE, Diameter 24", Length 26'	<ul style="list-style-type: none"> Culvert Installation Impact 4' - HDPE, Diameter 24", Length 26' Inlet Protection Impact 3' - Rip-Rap Installation 	<ul style="list-style-type: none"> Existing Culvert: N/A Culvert Replacement to occur on Cardno_Stream_WB-22, which extends into the Confluence of the Stream (Cardno_Stream_WB-22) 					
								March 2020	3	Right of Entry	9	9	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features The Culvert Replacement may Utilize Temporary Ditch Checks, Filter Fabric, and/or Sand Bags, at the Discretion of the Contractor and Based on Current Field Conditions 					
Cardno_Stream_WB-12 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	33.262957	-80.796825	Permanent	March 2020	3	Structure	154	Proposed Culvert Replacement: HDPE, Diameter 24", Length 24'	<ul style="list-style-type: none"> Culvert Replacement Impact 20' - HDPE, Diameter 24", Length 24' Outlet Protection Impact 8' - Rip-Rap Installation Stream Relocation Impact 120' - Grading & Rip-Rap Stabilization of Stream Channel Captured within Ditch Line 	<ul style="list-style-type: none"> Existing Culvert: CMP Diameter 24", Length 20' Culvert Replacement to extend into the Confluence of Cardno_Stream_WB-22 Existing Stream Channel Captured in Ditch Line to be Relocated due to Road Widening 					
								March 2020	3	Right of Entry	12	12	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features The Culvert Replacement may Utilize Temporary Ditch Checks, Filter Fabric, and/or Sand Bags, at the Discretion of the Contractor and Based on Current Field Conditions 					
* Cardno_Stream_WB-21 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	33.263253	-80.796887	Permanent	March 2020	3	Right of Entry	3	Stream Relocation Impact 3' - Grading & Rip-Rap Stabilization of Stream Channel Captured within Ditch Line	<ul style="list-style-type: none"> Stream Relocation with Catching, Stream_WB-12 to be Graded and Stabilized 						
								March 2020	3	Right of Entry	3	3	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features 					
* KLF_Stream03 (EPH)	UNT to Left Fork Arnolds Creek	Ephemeral	Doddridge	West Union	33.270864	-80.804061	Permanent	March 2020	3	Structure	33	Proposed Culvert Replacement: HDPE, Diameter 18", Length 22'	<ul style="list-style-type: none"> Culvert Replacement Impact 22' - HDPE, Diameter 18", Length 22' Inlet Protection Impact 3' - Rip-Rap Installation Outlet Protection Impact 8' - Rip-Rap Installation 	<ul style="list-style-type: none"> Existing Culvert: CMP, Diameter 15", Length 19' Culvert Replacement Length will Extend 3' Past Each Side of Existing Culvert 					
								March 2020	3	Right of Entry	17	17	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features The Culvert Replacement may Utilize Temporary Ditch Checks, Filter Fabric, and/or Sand Bags, at the Discretion of the Contractor, Based on Current Field Conditions 					
* KLF_Stream02 (EPH)	UNT to Arnolds Creek	Ephemeral	Doddridge	West Union	33.271124	-80.806585	Temporary	March 2020	3	Right of Entry	5	5	<ul style="list-style-type: none"> Temporary EAS - Perimeter Controls for Construction Activity Stream Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features 					
* Cardno_Stream_WB-06 (INT)	UNT to Arnolds Creek	Intermittent	Doddridge	West Union	33.272206	-80.807715	Temporary	March 2020	3	Right of Entry	29	29	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity Stream & Culvert Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features 					
* KLF_Stream01 (EPH)	UNT to Arnolds Creek	Ephemeral	Doddridge	West Union	33.273026	-80.808709	Temporary	March 2020	3	Right of Entry	4	4	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity Stream Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features 					
* Cardno_Stream_WB-03 (EPH)	UNT to Arnolds Creek	Ephemeral	Doddridge	West Union	33.274309	-80.811004	Temporary	March 2020	3	Right of Entry	30	30	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity Stream & Culvert Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features 					
* Cardno_Stream_WB-05 (EPH)	UNT to Arnolds Creek	Ephemeral	Doddridge	West Union	33.275257	-80.811248	Temporary	March 2020	3	Right of Entry	30	30	<ul style="list-style-type: none"> Temporary EAS Perimeter Controls for Construction Activity Stream & Culvert Cleaning - Remove Debris and Accumulated Sediment 	<ul style="list-style-type: none"> Temporary Workspace and EAS Controls to Protect Aquatic Features 					

John Lewis

From: Elliott, Danielle A <Danielle.A.Elliott@wv.gov>
Sent: Wednesday, February 5, 2020 3:41 PM
To: John Lewis
Cc: Matthew Albright; Tyler Streb; Taylor, Nate D; Wakeford, Anne M; Bennett, Danny A; Scott, Mark T
Subject: RE: [External] Antero Resources Corporation: Arnolds Creek Road (CR11) Punkin Center Road (CR11/4) Roadway Improvements - 2020 Fish Spawning Season Waiver Request
Attachments: 20191220_Arnolds Creek Rd (CR11) Punkin Center Rd (CR11-4) Roadway Imp_F....pdf

External Email.

Hello John,
WVDNR has approved your fish spawning waiver for the subject project. This email will serve as your approval, as I did not receive a fillable Excel version.

Also, for future waiver requests, please contact Anne Wakeford, who is CC'ed here. Please let me know if you have any questions or concerns.
Thank you,

Danielle A. Elliott

West Virginia Division of Natural Resources
Wildlife Resources Section
Coordination Unit
Office: 304-637-0245
Mobile: 304-550-5057

From: John Lewis [mailto:JALewis@kleinfelder.com]
Sent: Friday, December 20, 2019 5:26 PM
To: Elliott, Danielle A
Cc: Matthew Albright; Tyler Streb
Subject: [External] Antero Resources Corporation: Arnolds Creek Road (CR11) Punkin Center Road (CR11/4) Roadway Improvements - 2020 Fish Spawning Season Waiver Request

CAUTION: External email. Do not click links or open attachments unless you verify sender.

Hi Danielle,

On behalf of Antero Resources Corporation (Antero), Kleinfelder, Inc. is submitting the attached Fish Spawning Waiver Request for the 2020 spawning season for an intermittent stream crossing associated with the Arnolds Creek Road (CR11) Punkin Center Road (CR11/4) Roadway Improvements for your review. Please address your response to Tyler Streb of Antero. He is cc'd on the email and his contact information is located below.

Tyler Streb
Environmental Specialist
Antero Resources Corporation
1615 Wynkoop Street

Denver, CO 80202
(303) 357-7377
tstreb@anteroresources.com

Thanks!

John A. Lewis
Project Professional

51 Dutilh Rd., Suite 240
Cranberry Township, PA 16066
d| 724.200.7512
o| 724.772.7072
m| 412.848.7376



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DIVISION OF NATURAL RESOURCES

**Wildlife Resources Section
Elkins Operations Center
738 Ward Rd., PO Box 67
Elkins, WV 26241
Telephone 304-637-0245
Fax 304-637-0250**

**Stephen S. McDaniel
Director**

January 6, 2020

Mr. Tyler Streb
Antero Resources Corporation
1615 Wynkoop Street
Denver, CO 80202

Dear Mr. Streb:

We have reviewed Natural Heritage Program files for information on rare, threatened and endangered (RTE) species and sensitive habitats for the area of the proposed Arnolds Creek Road (CR 11) – Punkin Center Road (CR 11/4) Roadway Improvements project in Doddridge County, WV.

We have no known records of any RTE species or sensitive habitats within the project area. The Wildlife Resources Section knows of no surveys that have been conducted in the area for rare species or rare species habitat. Consequently, this response is based on information currently available and should not be considered a comprehensive survey of the area under review. This response is valid for two years.

The information provided above is the product of a database search and retrieval. This information does not satisfy other consultation or permitting requirements for disturbances to the natural resources of the state, and further consultation may be required. Additionally, any concurrence requirements for federally listed species must come from the US Fish and Wildlife Service.

Thank you for your inquiry, and should you have any questions please feel free to contact me at the above number, or barbara.d.sargent@wv.gov. Enclosed please find an invoice.

Sincerely,

Barbara Sargent
Environmental Resources Specialist
Environmental Coordination
Operations Unit

cc: John Lewis - Kleinfelder

enclosure

S:\Monthly\BSargent\Invoices\Antero.doc

John Lewis

From: Dickson, Nancy J <Nancy.J.Dickson@wv.gov>
Sent: Monday, January 6, 2020 3:44 PM
To: Matthew Albright
Cc: Tyler Thigpen
Subject: Arnolds Creek and Punkin Center Roads PCN

External Email.

Mr. Albright,

The West Virginia Department of Environmental Protection-Division of Water and Waste Management has received the pre-construction notification for the following project:

Company: Antero Resources Corporation
Project: Arnolds Creek Road (CR 11) Punkin Center Road (CR 11/4) Roadway Improvements
County: Doddridge

This fulfills the requirement of Standard Condition 1 for prior written notification for these nationwide permits. All other applicable standard conditions for nationwide permits remain in force until the project is complete.

Feel free to contact me should you have any additional questions or concerns.

Thank you,

Nancy J. Dickson
Environmental Resources Specialist 3
West Virginia Department of Environmental Protection
Division of Water and Waste Management
401 Certification Program

601 57th Street, SE
Charleston, WV 25304
Telephone: (304) 926-0499 ext.1715
Email: Nancy.J.Dickson@wv.gov



George Eidel <doddridgecountyfpm@gmail.com>

Doddridge County, WV - Floodplain Permitting

2 messages

John Lewis <JALewis@kleinfelder.com>
To: George Eidel <doddridgecountyfpm@gmail.com>
Cc: Matthew Albright <MAAlbright@kleinfelder.com>

Fri, Feb 14, 2020 at 5:47 PM

Hi George,

I'm in the process of putting together a floodplain permit application for Doddridge County, WV. The cost of the Project within the floodplain is \$1,247,566.00. Using the equation outlined in the screenshot below, I am calculating the cost for the floodplain fee to be \$6,737.83. Can you verify this fee total is accurate?

New Industrial Structures or Additions and/or Substantial Improvement to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes

(industrial structures includes oil and/or natural gas wells, roads, bridges, tank pads, and Buildings used or associated with oil and natural gas purposes)

(the total costs of which exceed \$100,000.00 plus \$5.00 per \$1,000.00 in costs over \$100,000.00) -----

\$1,000.00

Also, when we talked yesterday we discussed the Floodplain Permit Application process. Can you confirm my notes from our phone conversation are accurate:

- Doddridge County floodplain commission meetings are held twice a month (1st and 3rd Tuesday's).
- The application has to be received by the Thursday (3 days) prior to the scheduled commission meeting.
 - The Doddridge County Director of Emergency Management will review the permit application and send it to the clerk to be placed on the agenda.
 - The agenda is posted at ~4:00 pm on Thursday afternoon, prior to the scheduled meeting.
 - If the application is received late on the Thursday prior (example 3:00 PM), or there are current flooding issues that need dealt with, there may be a delay in the review process.
- Once the permit application is read at the commission meeting, there is a 20 day comment period before issuing permit approval.
- The floodplain ordinance requires all project permit approvals be submitted to the Doddridge County Director of Emergency Management, prior to issuing the floodplain permit.
 - However, the applicant is able to submit the floodplain permit application prior to receiving the other permit approvals.
 - Indicate on the permit application or email that the other permits have been applied for and approvals are currently pending.
 - If no other permits are required, state that.
 - The floodplain permit application will be reviewed and placed on the agenda for the next commission meeting (with the understanding the other permit approvals are pending).
 - Submit the other permit approvals to the Doddridge County Director of Emergency Management. Once received (and after the agenda has been read and the 20 day public comment period has passed) the floodplain permit may be issued immediately.
- Renewals
 - Send the same material as previously submitted. The same process outlined above will be followed and a new permit # will be issued.

Thanks!

John A. Lewis
Project Professional

51 Dutilh Rd., Suite 240
Cranberry Township, PA 16066

2/20/2020

Gmail - Doddridge County, WV - Floodplain Permitting

d| 724.200.7512
o| 724.772.7072
m| 412.848.7376



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George Eidel <doddridgecountyfpm@gmail.com>
To: John Lewis <JALewis@kleinfelder.com>

Tue, Feb 18, 2020 at 7:56 AM

John,

Yes, everything is correct and the fee looks good. If you have any questions please let me know. I am attaching a copy of our floodplain ordinance for your reference.

[Quoted text hidden]

--

George C. Eidel, CFM, OEM Director/Floodplain Manager

Doddridge County Office of Emergency Management

101 Church Street Suite 102

West Union, WV 26456-2095

Work Phone: 1-304-873-1343

Mobile Phone: 1-304-281-7407

Fax: 1-304-873-1840

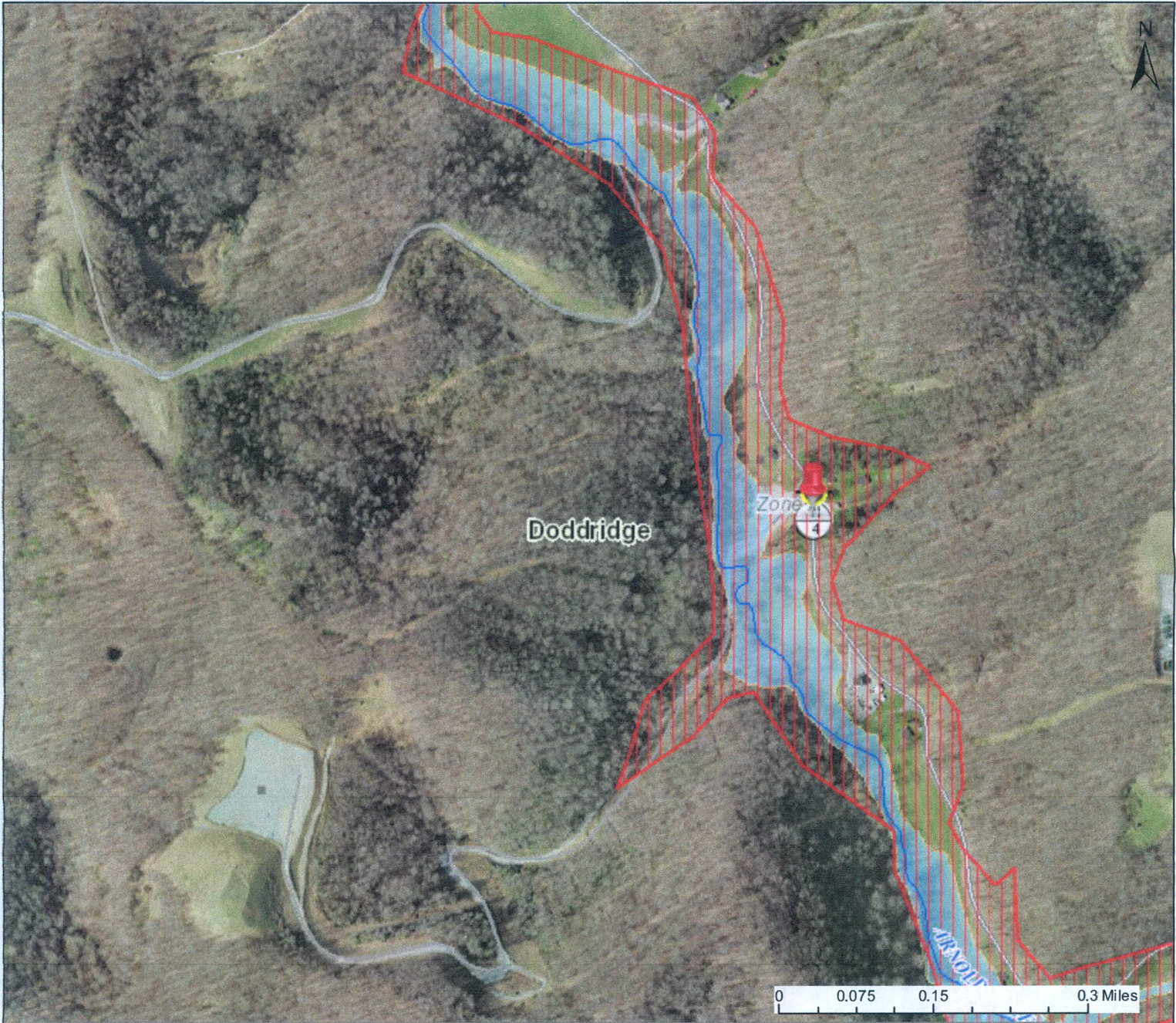
doddridgecountyfpm@gmail.com

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 **3 NEW Amended FLOODPLAIN ORDINANCE Signed 8-7-2018.pdf**
18134K

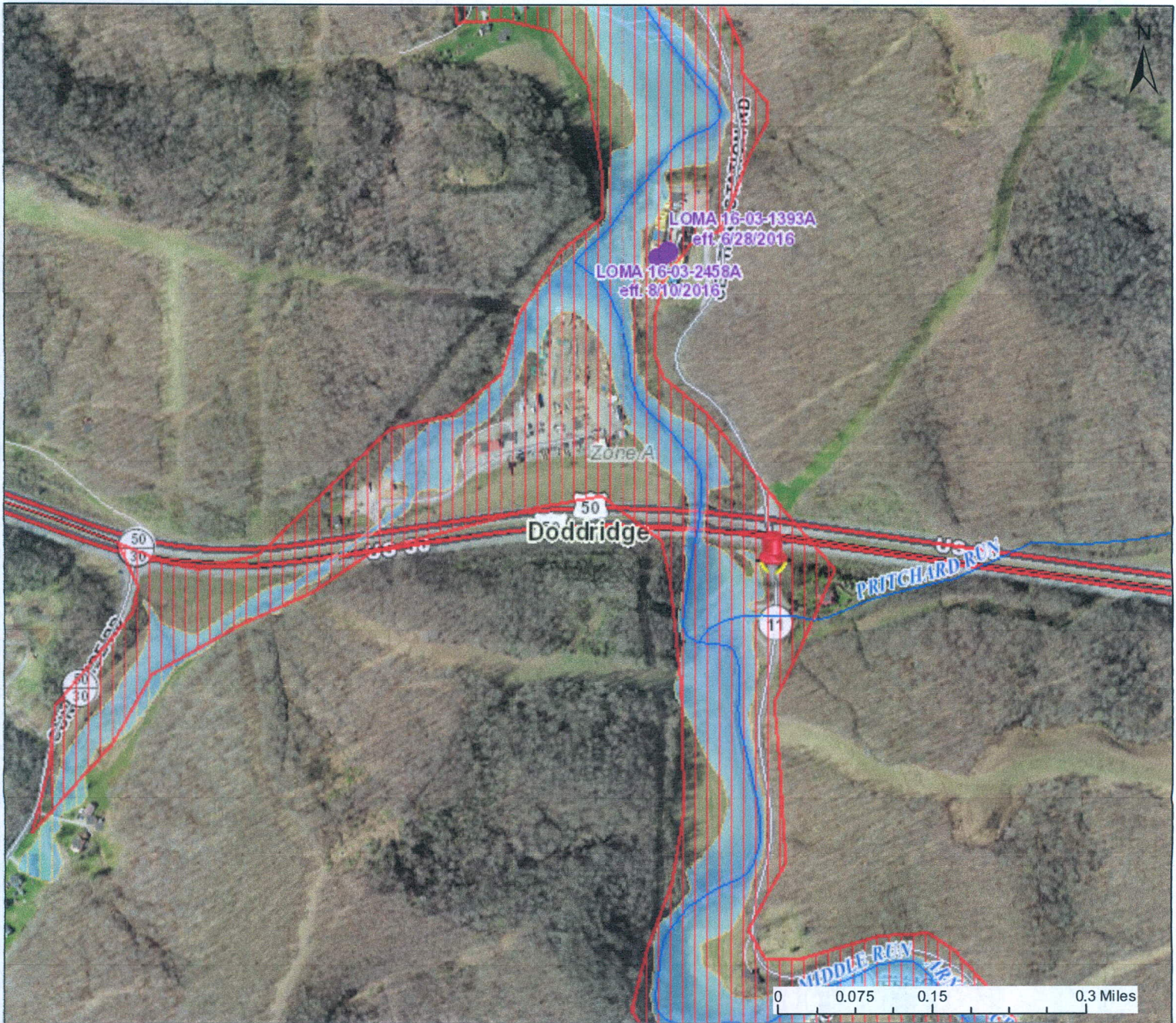
WV Flood Map




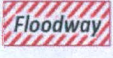


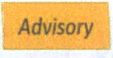
This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

H I G H R I S K		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)	Flood Info Location Map created on 2/20/2020
		Regulatory Floodway in AE Zone	
		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)	User Notes
		1-Percent-Annual-Chance High Risk Advisory	Flood Hazard Area Location is WITHIN the FEMA 100-year floodplain.
Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf			Flood Zone A Stream Arnold Creek Watershed (HUC8) Little Musringum-Middle Island (5030201)
Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.mapwv.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.			Flood Height Water Depth Elevation About 856 ft (Source: SAMS 2003)
			Community & ID Doddridge County (ID: 540024) FEMA Map & Date 54017C0120C; Effective Date: 10/4/2011 Location (lat, long) (39.256303, -80.791810) Parcel ID No Parcel E-911 Address

WV Flood Map



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

H I G H  1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)  Regulatory Floodway in AE Zone	 Flood Info Location Map created on 2/20/2020	
	User Notes Flood Hazard Area Location is WITHIN the FEMA 100-year floodplain.	
R I S K  1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)  1-Percent-Annual-Chance High Risk Advisory	Flood Zone A Stream Arnold Creek Watershed (HUC8) Little Musringum-Middle Island (5030201)	
	Flood Height Water Depth Elevation About 823 ft (Source: SAMS 2003)	
Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf		
Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.mapwv.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.		
Community & ID Doddridge County (ID: 540024) FEMA Map & Date 54017C0120C; Effective Date: 10/4/2011 Location (lat, long) (39.277259, -80.811072) Parcel ID No Parcel E-911 Address		

The Doddridge Independent

The Doddridge Independent PUBLISHER'S CERTIFICATE

I, Michael D. Zorn, Publisher of The Doddridge Independent, A newspaper of general circulation published in the town of West Union, Doddridge County, West Virginia, do hereby certify that:

Please take notice that on the (20th) of (February), 2020, (Antero Resources) filed an application for a Floodplain Permit (#20-565) to develop land located at or about (Arnolds Creek Road and Punkin Center Road); Coordinates: 39.277259, -80.811072/39.256303, -80.791810. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and

Floodplain Public Notice • Legal Notice
Please take notice that on the (20th) of (February), 2020, (Antero Resources) filed an application for a Floodplain Permit (#20-565) to develop land located at or about (Arnolds Creek Road and Punkin Center Road); Coordinates: 39.277259, -80.811072/39.256303, -80.791810. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (March 23, 2020) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. This project is for roadway improvements to Arnolds Creek Road and Punkin Center Road. C2 02/21 - 02/28

was published in The Doddridge Independent 2 times commencing on Friday, February 21, 2020 and Ending on Friday, February 28, 2020 at the request of:

George Eidel, Doddridge County Floodplain Manager & Doddridge County Commission

Given under my hand this Monday, March 2, 2020

The publisher's fee for said publication is: \$ 31.05 1st Run/\$ 23.28 Subsequent Runs This Legal Ad Total: \$ 54.33

[Signature]
Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on

this date: 3/13/20

[Signature]

Notary Public in and for Doddridge County
My Commission expires on

The 16 day of MAY 20 24

