



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 #: 24-650

Date Approved: April 22, 2024

Expires: April 22, 2025

Issued to: Antero Midstream

POC: Anthony Ludovici

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

Project Address: 2187 Arnolds Creek Road West Union, WV 26456

Firm: 54017C0120C

Lat/Long: 39.253762, -80.811637

Purpose of development: Oxford 98 Pipeline Slip Repair

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

Date: April 22, 2024


For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.1343, or via email at
doddridgecountyfpm@gmail.com
101 Church Street Suite 102; West Union, WV 26456

13927

KLEINFELDER OFFICE CHECKING
770 FIRST AVENUE, SUITE 400
SAN DIEGO, CA 92101

DATE 2/29/2024 19-10/1250

PAY TO THE ORDER OF Doddridge County Commission \$ 250.00

Two hundred fifty and 00/100 DOLLARS  Security Features Included. Details on Back.

usbank.

FOR 24004778.000A/12.0000 Amish D. Kamm MP

⑈013927⑈ ⑈25000105⑈ ⑈57519869794⑈

FP #24-650



Doddridge County Floodplain Permits

(Week of March 25, 2024)

Please take notice that on the (13th) of (March), 2024, (Antero Midstream) filed an application for a Floodplain Permit (#24-650) to develop land located at or about (2187 Arnolds Creek Road);

Coordinates: 39.25376, -80.811637. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance with 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 (April 22, 2024) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 101 Church Street, Suite #102, West Union, WV 26456. **This project is for the Oxford 98 Pipeline slip repair project**

GEORGE C. EIDEL, CFM

Doddridge County Floodplain Manager

FLOODPLAIN PERMIT #24-650

Antero Midstream, Oxford 98 Pipeline Slip Repair, 2187 Arnolds Creek Rd, 39.253762, -80.811637

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	3/13/2024	\$250.00
US ARMY CORP. ENGINEERS (USACE)		
US FISH & WILDLIFE SERVICES (USFWS)		
WV DEPT. NATURAL RESOURCES (WVDNR)		
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)		
STATE HISTORIC & PRESERVATION OFFICE (SHPO)		
OFFICE of LAND & STREAM (OLS)		
WVDOH		
Elevation Certificate		
DATE OF COMMISSION READING	4/2/2024	
DATE AVAILABLE TO BE GRANTED	4/22/2024	
PERMIT GRANTED		
COMPLETE		

7022 1670 0003 1400 8922

7022 1670 0003 1400 8939

7022 1670 0003 1400 8946



TRANSMITTAL

To: Mr. George Eidel
Floodplain Manager
101 Church Street, Suite #102
West Union, WV 26456-2095

Date: March 12, 2024

cc: Project File

MAR13 24 5:31PM

Subject: Doddridge County Floodplain Permit Application
Antero Midstream
Oxford 98 Pipeline 46+00 Slip Repair
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 Property Owners

Attachment C – No-Rise Certificate

Appendix A - WV Flood Tool Map

Appendix B - National Streamflow Statistics – Drainage Area

Appendix C - HEC-RAS Flow Section

Attachment D – Site Plan

Attachment E – Permitting & Coordination Table

The attached check for fee is \$250.00. The site budget within the Floodplain is less than \$50,000 bringing the permit fee to \$250.00.

By: **Matt Albright**
Project Manager
51 Dutilh Rd., Suite 240
Cranberry Township, PA 16066
MAlbright@Kleinfelder.com
m| 609.947.5296



ATTACHMENT A FLOODPLAIN APPLICATION



Permit# 24-650
Project Oxford 98 Pipeline Name: Repair
Permittees Name: Antero
Midstream

MAR13 24 5:31PM

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 Anthony Ludovici

DATE 3/12/2024

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: Antero Midstream		
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): Anthony Ludovici		
Local PM Primary Phone: (304) 627-9120		
Local PM Secondary Phone: N/A		
Local PM Primary Email: aludovici@anteroresources.com		
Person Filing Application: Anthony Ludovici		
Applicant Title: Environmental Specialist II		
Applicant Primary Phone: (304) 627-9120		
Applicant Secondary Phone: N/A		
Applicant Primary Email: aludovici@anteroresources.com		

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:
<p>Antero Midstream (Antero) is proposing to perform slip repair activities along the existing Oxford 98 Pipeline in Doddridge County, West Virginia. Known as the Oxford 98 Pipeline 46+00 Slip repair, the site is located at approximately 39.253911, -80.811842 and includes the installation of erosion and sediment controls, removal of failed materials, subsurface drainage installation with outlet(s), soils compacted and returned near original contours, and stabilization with seed/mulch/rolled erosion blankets.</p>
<p>The proposed slip repair activities will result in a limit of disturbance of approximately 0.23 acres, of which 0.02 acres (8.7%) is located within the limits of the Right Fork Arnold Creek regulated floodplain. The West Virginia Flood Tool Map is included in Appendix A of Attachment C and depicts the approximate location where work associated the proposed slip repairs will encroach upon the floodplain. Slip repair activities within the floodplain may include the installation of erosion and sediment controls, removal of failed materials, subsurface drainage installation with outlet(s), soils compacted and returned near original contours, and stabilization with seed/mulch/rolled erosion blankets.</p>
<p>A site plan of the proposed site is included in Attachment D.</p>
<p>A No-Rise Certification has been prepared and is included as Attachment C, which indicates that the proposed temporary construction activities will not affect the base flood elevation.</p>
<p>A permitting and coordination table is included in Attachment E that outlines all necessary permits and current status.</p>

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:

- | | | | |
|-------------------------------|---------------------------------|-----------------------------------|--|
| <input type="checkbox"/> Fill | <input type="checkbox"/> Mining | <input type="checkbox"/> Drilling | <input checked="" type="checkbox"/> 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: Oxford 98 Pipeline 46+00 Slip Repair		
Physical Address/911 Address: Arnolds Creek Rd, West Union, WV, 26456		
Decimal Latitude/Longitude: 39.253911, -80.811842		
DMS Latitude/Longitude:		
District: 8 (West Union)	Map: 19	Parcel: See Attachment B Property Owner Table
Land Book Description: N/A		
Deed Book Reference: N/A		
Tax Map Reference: N/A		
Existing Buildings/Use of Property: N/A		

Floodplain Location Data: <i>(to be completed by Floodplain Manager or designee)</i>			
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: 1 of 1

Property Owner Data:

Name of Primary Owner (PO): Turner Gerald C & Juanita L (Surv)

PO Address: 58 Turner Dr

City: West Union

State: WV

Zip: 26456

PO Primary Phone: N/A

PO Secondary Phone: N/A

PO Primary Email: N/A

Surface Rights Owner Data:

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

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: DAC Energy (#WV050789), RDR Utility Services Group (WV047502), Louisa Construction (#WV034890).		
C/SC Company Name: See Above		
C/SC WV License Number: See Above		
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: Kleinfelder, Inc. (No-Rise Cert Only)		
Engineer WV License Number: 25121		
Engineer Firm FEIN: N/A	Engineer Firm DUNS: N/A	
Engineer Firm Primary Point of Contact (POC): Matt Albright		
Engineer Firm Primary POC Title: Project Manager		
Engineer Firm Mailing Address: 51 Dutilh Road, Suite 240		
City: Cranberry Twp.	State: PA	Zip--Code: 16066
Engineer Firm Office Phone: 724-772-7072		
Engineer Firm Primary POC Phone: 609-947-5296		
Engineer Firm Primary POC E--Mail: MAlbright@kleinfelder.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 Property Owners (Attachment B)		
Physical 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		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): N/A		
Physical 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		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): See Table of Property Owners (Attachment B)		
Physical 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		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): N/A		
Physical 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		

Site Plan

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

A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:

1. Legal description of the parcel, north arrow and scale
2. All property lines and their dimensions
3. Names of adjacent roads, location of driveways
4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
6. Location and dimensions of existing or proposed on-site sewage systems.
7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
9. Location and dimensions of any roadway development into floodplain/floodway. *(Includes initial development access roads)*
10. Location and dimensions of any bridge and/or culvert development into floodplain/floodway.
11. Location and dimensions of any storage yard or facility into the floodplain/floodway.
12. Location of any existing utilities and/or proposed utility placement and/or displacement.
13. Location, dimensions and depth of any existing or proposed fill on site.
14. A survey showing the **existing ground elevations** of at least location on the building site. **ELEVATION NOTE:** All vertical datum will reference either NGVD 29 or NAVD 88. Assumed datum will not be acceptable unless the property is located in an area where vertical datum has not been published. For those areas where vertical datum has not been established, a site plan with contours, elevations using assumed datum, high water marks and existing water levels of sloughs, rivers, lakes or streams and proposed lowest floor elevation.

Applicant

Please read print name, sign and date below:

- I certify that I am authorized to submit this application for the primary project developer.
- I certify that the information included in this application is to the best of my knowledge true and complete.
- I certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have 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 of designee may at his or her discretion conduct site visits and document conditions of proposed development pursuant to the permit application.
- I understand that once the Floodplain Permit is granted, the permit will be entered into official public record. 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: Anthony Ludovici Date: 3/12/2024

Applicant Printed Name: Anthony Ludovici



ATTACHMENT B TABLE OF PROPERTY OWNERS

Table of Property Owners

PROPERTY OWNER	PARCEL ID NUMBER	E-911 ADDRESS	PROPERTY OWNER ADDRESS	IN FLOODPLAIN
TURNER GERALD C & JUANITA L (SURV)	09-08-0019-0008-0000	58 TURNER DR , WEST UNION, WV, 26456 42 TURNER DR , WEST UNION, WV, 26456 2326 ARNOLDS CREEK RD, WEST UNION, WV, 26456 269 JB HOLW , WEST UNION, WV, 26456 2772 ELLIOT RD , WEST UNION, WV, 26456	58 TURNER DR, WEST UNION, WV 26456	YES
TURNER GERALD C & JUANITA L (SURV)	09-08-0019-0008-0001	2260 ARNOLDS CREEK RD, WEST UNION, WV, 26456	58 TURNER DR, WEST UNION, WV 26456	YES (UPSTREAM)
BROWNING KARLEN SUE	09-08-0019-0014-0000	NO E-911 ADDRESS FOUND FOR THIS PARCEL	1899 GOOSE CREEK RD, WAYNESBORO, VA 22980	YES (UPSTREAM)
BRITTON MICHAEL R	09-08-0019-0015-0000	1808 ARNOLDS CREEK RD, WEST UNION, WV, 26456 1394 PUNKIN CENTER RD, WEST UNION, WV, 26456	1960 ARNOLDS CK, WEST UNION, WV 26456	YES (DOWNSTREAM)



ATTACHMENT C NO-RISE CERTIFICATE



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

It is further to certify that based on the information provided to me, and the attached technical data supports the fact, the floodplain encroachments for the Oxford 98 Pipeline (Site) will not impact the 100-year flood elevation of Right Fork Arnold Creek at the published section in the Flood Insurance Study for Doddridge County (Community ID 540024) effective October 4, 2011 and will not impact the 100-year flood elevation at unpublished cross-sections in the vicinity of the proposed development. Work to be performed within the floodplain limits that was considered during the evaluation includes the slope slip repair activities, including erosion control, removal of failed materials, subsurface drainage installed with outlet, soils compacted and returned near original contours, stabilization with seed/mulch/rolled erosion blankets.


Based on the analysis that was previously completed for the project it was determined that, while the area of the proposed work may be within the delineated flood plain, the 100-year water surface elevation will not approach the elevation where the proposed work is being performed.

The total watershed (drainage basin) for the Right Fork Arnold Creek floodplain encroachments were shown to be 4.0 square miles, and maximum flows were calculated utilizing the National Streamflow Statistics (NSS) application available online. A Hydrologic Engineering Center's – River Analysis System (HEC-RAS) analysis was completed, based on the drainage area above and associated flows, to verify that no influence will occur due to the proposed activities within the floodplain for Right Fork Arnold Creek. The flows compared for the affected area are attached.

Attached are the following documents that support my findings:

Maps of the Site from the West Virginia Flood Tool
National Streamflow Statistics – Drainage Area Flow
HEC-RAS Flow Section

Date: February 29, 2024

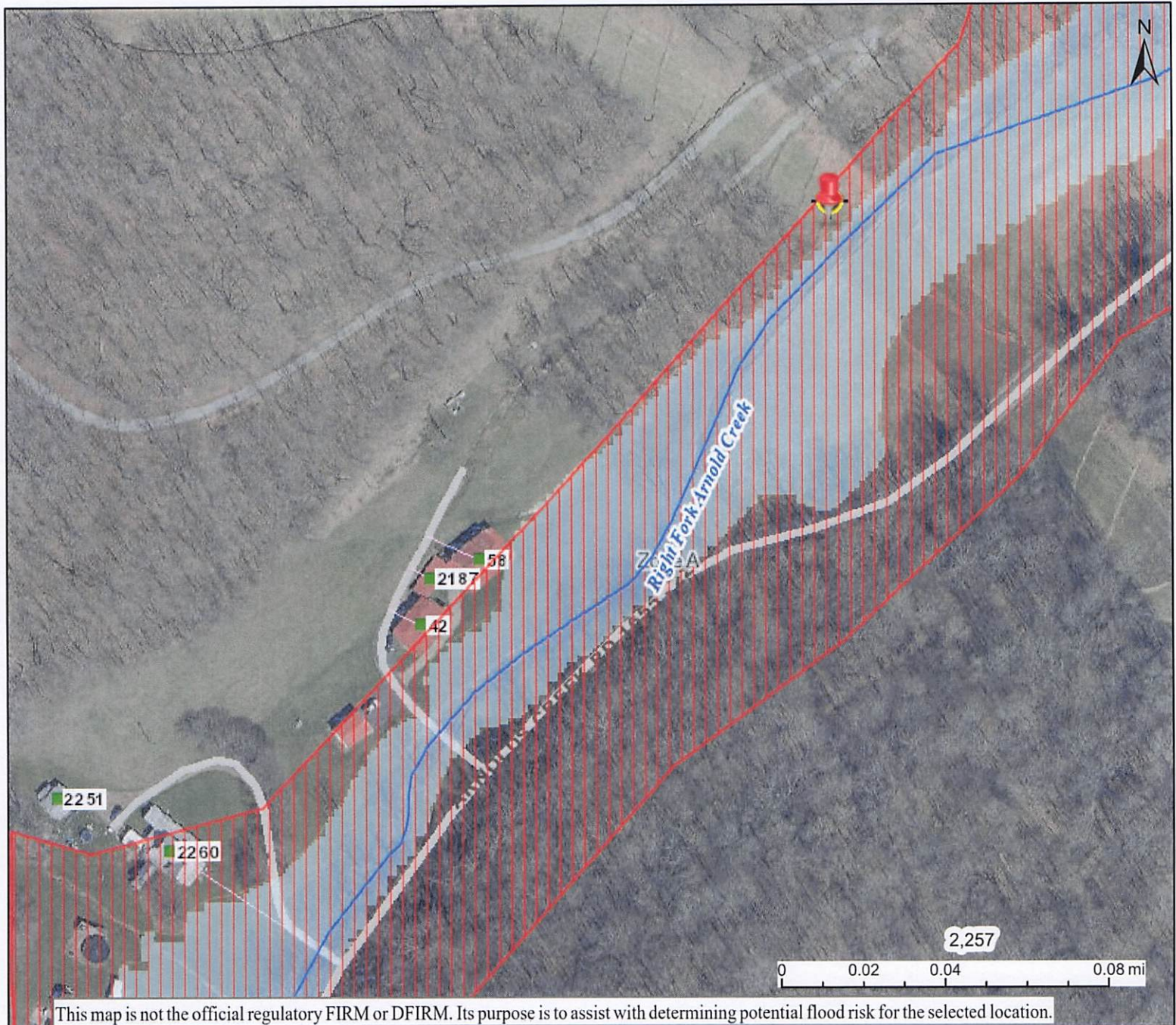
Signature: 

Title: Project Manager



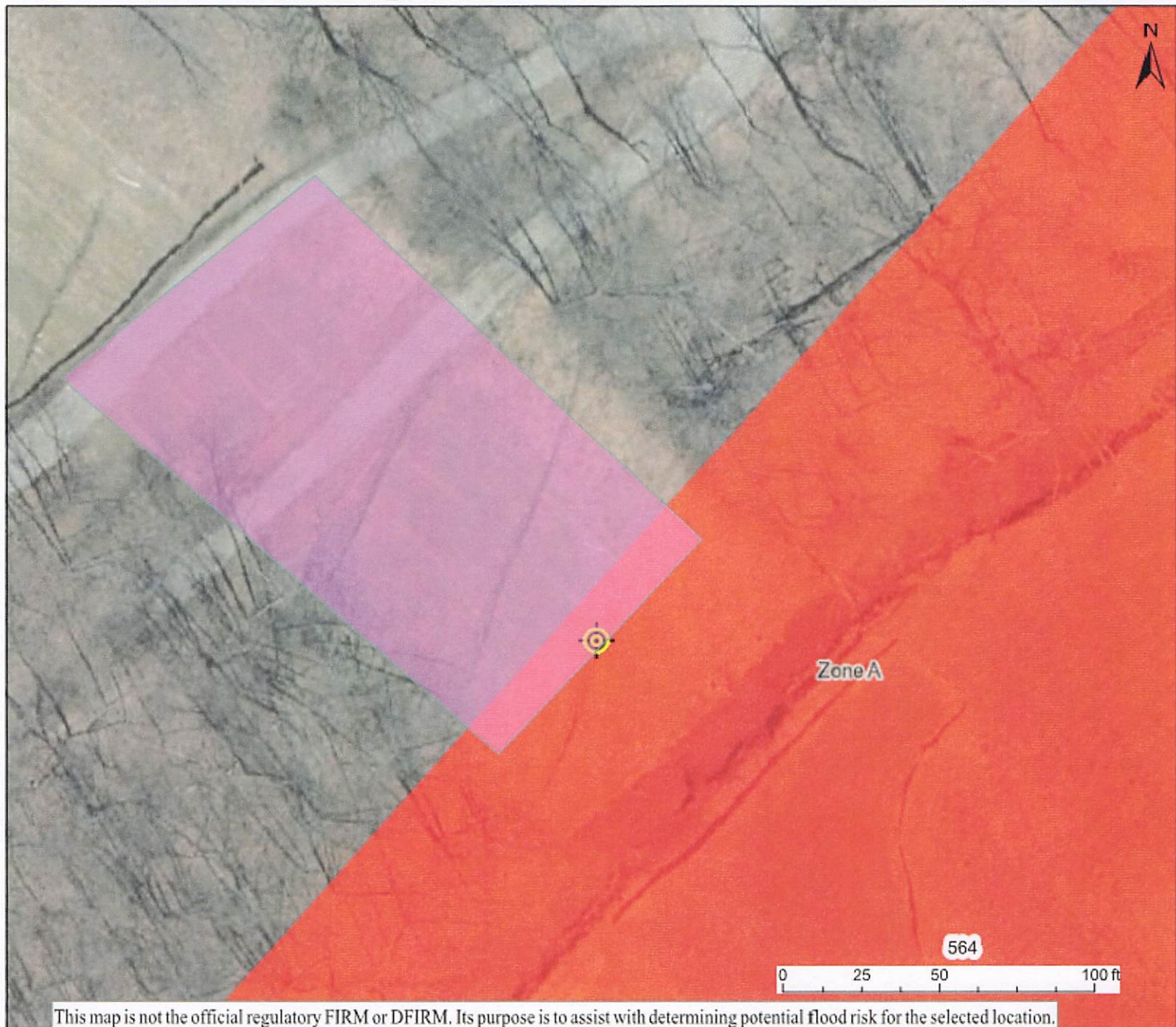
APPENDIX A
WV FLOOD TOOL MAP

WV Flood Map



<p>H I G H R I S K</p> <p>Zone AE 1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)</p> <p>Floodway Regulatory Floodway in AE Zone</p> <p>Zone A 1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)</p> <p>Advisory 1-Percent-Annual-Chance High Risk Advisory</p> <p>Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf</p> <p>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.</p>		<p> Flood Info Location Map created on 3/19/2024</p>	
User Notes			
Flood Hazard Area		Location is WITHIN the FEMA 100-year floodplain.	
Flood Zone		A	
Stream		Arnold Creek	
Watershed (HUC8)		Little Musringum-Middle Island (5030201)	
Flood Height		Flood Height 6b None	
Water Depth			
Elevation		857.4 ft (Source: FEMA 2018-20) (NAVD88)	
Community & ID		Doddridge County (ID: 540024)	
FEMA Map & Date		54017C0120C; Effective Date: 10/4/2011	
Location (lat, long)		(39.253762, -80.811637) (WGS84)	
Parcel ID		09-08-0019-0008-0000	
E-911 Address		multiple addresses	

WV Flood Map-Oxford 98 PL 46+00 Slip Rep



H I G H R I S K		Regulatory Floodway	Flood Info Location Map created on 2/26/2024	
		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)	User Notes	
		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)	Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain.
		1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones)	Flood Zone	A
Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf			Stream	Right Fork Arnold Creek
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.			Watershed (HUC8)	Little Musringum-Middle Island (5030201)
			Flood Height	Flood Height 6b None
			Water Depth	
			Elevation	857.4 ft (Source: FEMA 2018-20) (NAVD88)
			Community & ID	Doddridge County (ID: 540024)
			FEMA Map & Date	54017C0120C; Effective Date: 10/4/2011
			Location (lat, long)	(39.253762, -80.811637) (WGS84)
			Parcel ID	09-08-0019-0008-0000
			E-911 Address	multiple addresses

APPENDIX B
NATIONAL STREAMFLOW STATISTICS (NSS)
RIGHT FORK ARNOLD CREEK
DODDRIDGE COUNTY, WV

National Streamflow Statistics (NSS)

File Graph Help

Analysis Type: ☒ Peak ☐ Probability ☐ Other

State: Site Name:

Rural

Oxford 98 PL
Basin Drainage Area: 4 square miles
1 Region
Region:
Peak Flow_Central Mountains_Region_2010_5033
Drainage_Area = 4 square miles
Crippen & Bue Region 4

Statistic	Value, ft ³ /s	Standard Error, %	Equivalent Years
PK1_5	184	35	2
PK2	233	34	2.1
PK5	374	35	3.2
PK10	484	37	4
PK25	638	41	4.8
PK50	765	44	5.3
PK100	900	48	5.6
PK200	1040	52	5.9
PK500	1250	56	6.1
maximum: 11800 (for C&B region 4)			

Urban

No Scenarios Available

Frequency Plot

Hydrograph

Weight

Legend

Basins

Layers

Basemaps

Input Coordinate

examples:

38 15 30.1, -81 25 15.2 (lat, lon)

38.123456, -81.123456 (lat, lon)

500000, 4200000 (UTM as easting, northing)

Lat/Lon WGS 1984

☒ zoom to point

Go

7Q10 Query Results

Stream Name	Right Fork/Arnold Creek
Stream Code	OMN-13-DA-20
WV Code	WVOMI-40-I
Drainage Area	4.062 sq mi

Exceptions and Warnings

Regulated Flow	N
Regulated Flow Info	NA
Known Losing Stream	N
Potential Karst Influence	N
Potential Non-Perennial	N

Gage-based Estimates

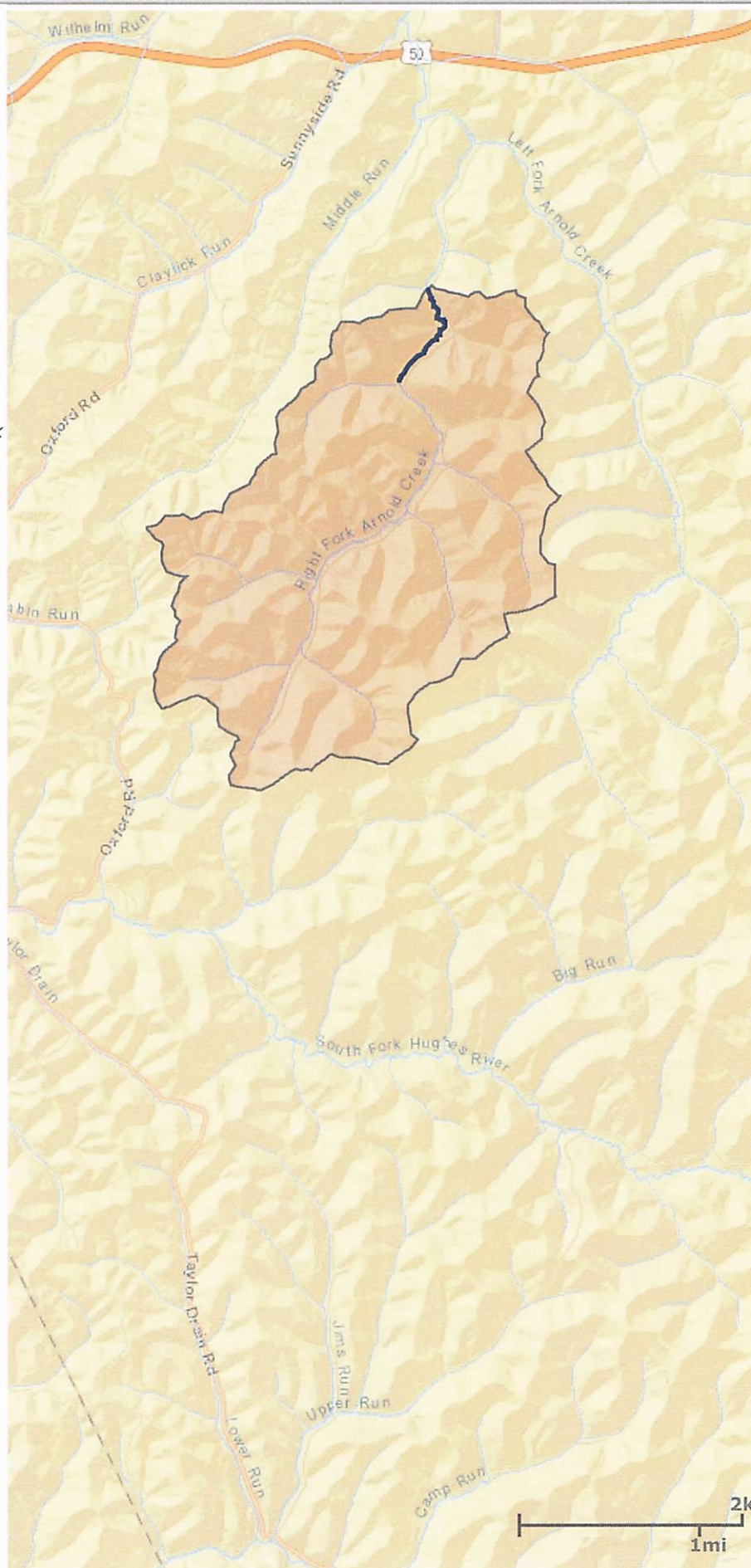
Method	
Upstream Gage	
Downstream Gage	
Annual 7Q10	cfs
Spring 7Q10	cfs
Summer 7Q10	cfs
Fall 7Q10	cfs
Winter 7Q10	cfs

Regional Estimates

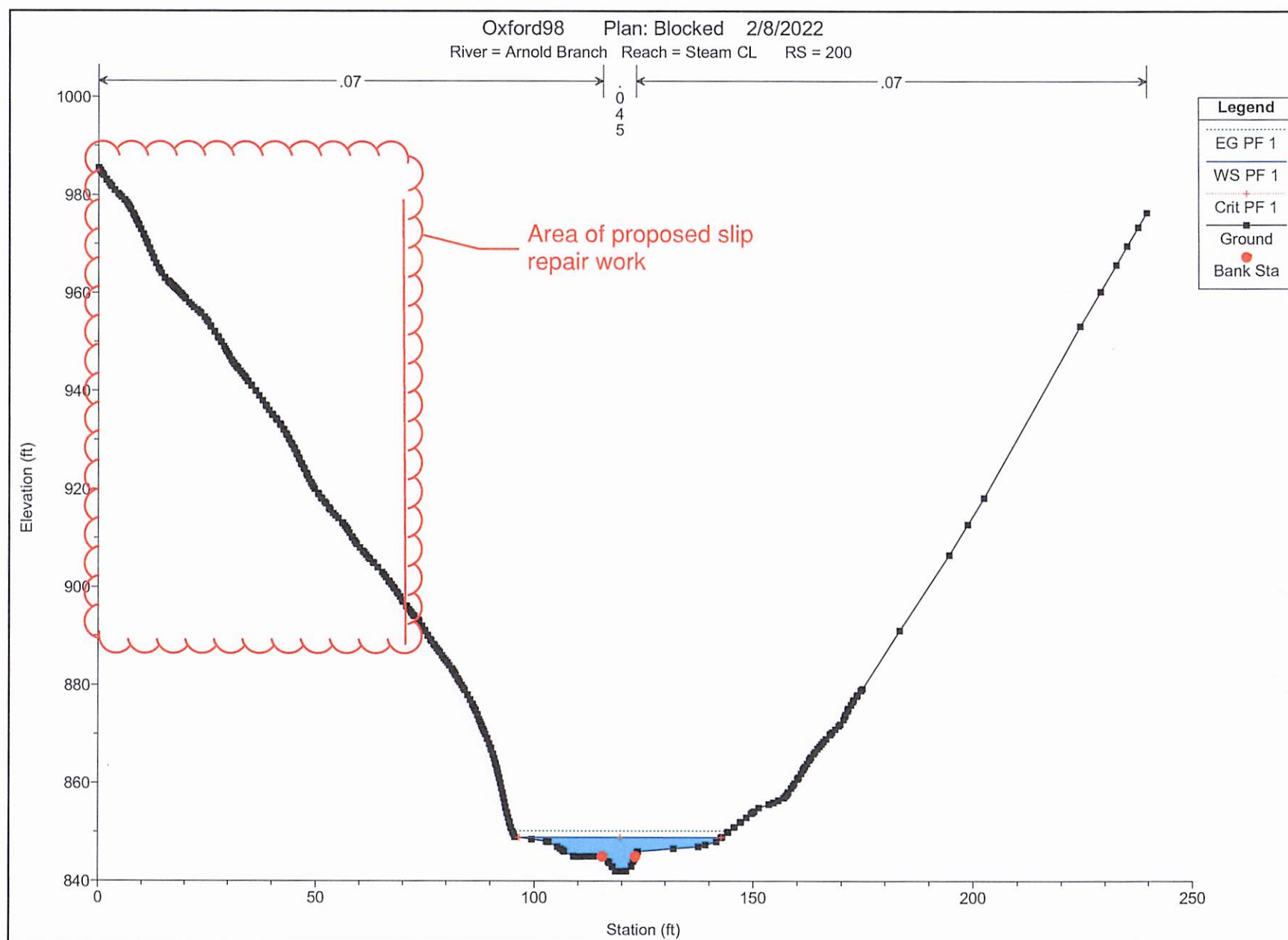
Annual 7Q10	0.001	cfs
Spring 7Q10	0.034	cfs
Summer 7Q10	0.001	cfs
Fall 7Q10	0.007	cfs
Winter 7Q10	0.284	cfs
Spring D50	1.582	cfs
Summer D50	0.117	cfs
Fall D50	0.619	cfs
Winter D50	4.067	cfs
D75	0.188	cfs
Harmonic Mean	0.072	cfs

Guidance:

This stream is not proximate to a stream gage. Use the regional estimate.

[flow calculation methods](#)

APPENDIX C
HEC-RAS FLOW SECTION
RIGHT FORK ARNOLD CREEK
DODDRIDGE COUNTY, WV





ATTACHMENT D SITE PLAN



KLEINFELDER
www.kleinfelder.com

PROJECT NO. 24224-02
DRAWN BY: M. A. B. 11/17/24
CHECKED BY: M. A. B. 11/17/24

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Legend

- AOI (10.4 ac)
- Existing Culvert
- Existing Road
- Ephemeral Stream
- Access Road
- Stream
- Classification

Antero Midstream

Site Plan
Oxford 98 PL 46 x 100 Slip Repair

Date: 3/12/2024 Index Map

Map

Dodderidge County
West Virginia

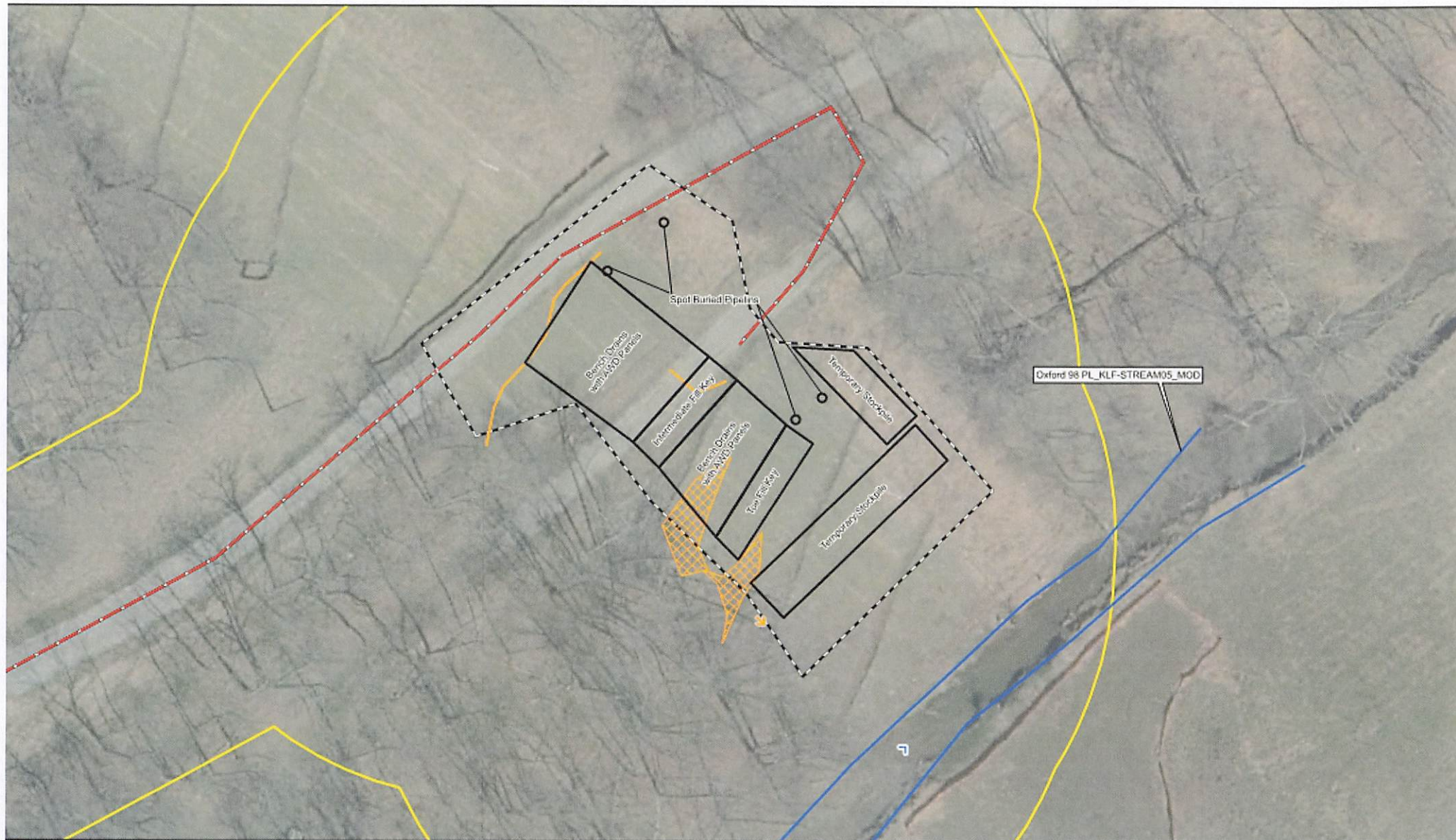
Aerial Imagery
© 2024

Scale

0 100 200 ft

North Arrow

N
E
S
W



<p>KLEINFELDER Engineering & Construction</p> <p>Information included on this graphic representation has been compiled from a variety of data and is subject to change without notice. KLEINFELDER makes no representation or warranty, express or implied, as to accuracy, completeness, timeliness, or rights to the use of information. This document is not intended for use as a land survey product nor is it designed to be used as a design document. This use or misuse of this information is at the user's risk.</p>	<p>PROJECT NO: 24054723 DRAWN BY: S. Latta CHECKED BY: M. Albright</p>	<p>0 12.5 25 Feet</p> <p>N W E S</p> <p>Doddridge County West Virginia Aerial Imagery ©2021</p>	<p>AOI (10.4 ac) Slip Boundary Ephemeral Stream Slip Direction LOD (0.2 ac) Linear Slip Feature Perennial Stream Access Road Slip Design Existing Culvert Stream Flow Existing Road</p>	<p>Antero Midstream</p> <p>Site Plan Oxford 98 PL 46100 Slip Repair</p> <p>Date: 3/12/2024 Sheet 1 of 1</p>
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ATTACHMENT E PERMITTING & COORDINATION TABLE

Permitting & Coordination Table

Permitting Agency	Permit/Coordination Required	Submitted	Received (Anticipated)	Status
County Floodplain	Doddridge County Floodplain Application	3/12/24	(4/11/24)	Pending

The Doddridge Independent, LLC
187 Main Street
West Union, WV 26456
(304) 844-8040

Invoice

**BILL TO**

George Eidel
Doddridge County OES/Floodplain
108 Court St.
West Union, WV 26456-2095 USA

COPY

INVOICE #	DATE	TOTAL DUE	DUE DATE	TERMS	ENCLOSED
6264	03/28/2024	\$96.46	04/27/2024	Net 30	

DATE	ACCOUNT SUMMARY	AMOUNT
03/05/2024	Balance Forward	254.80
	Other payments and credits after 03/05/2024 through 03/27/2024	-300.30
03/28/2024	Other invoices from this date	0.00
	New charges (details below)	141.96
	Total Amount Due	96.46

DESCRIPTION	QTY	RATE	AMOUNT
Legal Ad Class 2 Class 2 Legal Ad - Please take notice that on the (8th) of (March), 2024, (Shane Kirkpatrick) filed an application for a Floodplain Permit (#24-649) to develop land located at or about (150 Beverlin Fork Road); Coordinates: 39.395117, -80.633905.	1	45.50	45.50
Legal Ad Class 2 Class 2 Legal Ad - Please take notice that on the (5th) of (March), 2024, (The Doddridge County Farmers Market) filed an application for a Floodplain Permit (#24-648) to develop land located at or about (69 Cline Stansberry Field Road; Coordinates: 39.290756, -80.771297.	1	47.32	47.32
Legal Ad Class 2 Class 2 Legal Ad - Please take notice that on the (13th) of (March), 2024, (Antero Midstream) filed an application for a Floodplain Permit (#24-650) to develop land located at or about (2187 Arnolds Creek Road); Coordinates: 39.25376, -80.811637.	1	49.14	49.14

Thank you for your business...

SUBTOTAL	141.96
TAX	0.00
TOTAL	141.96
TOTAL OF NEW CHARGES	141.96
BALANCE DUE	\$96.46

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 (13th) of (March), 2024, (Antero Midstream) filed an application for a Floodplain Permit (#24-650) to develop land located at or about (2187 Arnolds Creek Road); Coordinates: 39.25376, -80.811637. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance with WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to

was published in The Doddridge Independent
2 times commencing on Friday, March 22, 2024 and
Ending on Friday, March 29, 2024 at the request of:

**George Eidel, Doddridge County Floodplain
Manager & Doddridge County Commission**

Given under my hand this Friday, March 29, 2024

The publisher's fee for said publication is:

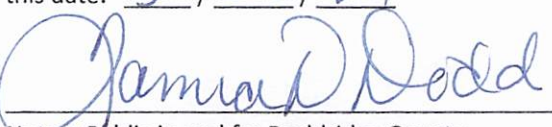
\$ 28.08 1st Run/\$ 21.06 Subsequent Runs

This Legal Ad Total: \$ 49.14

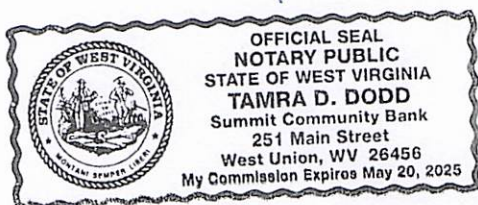

Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on

this date: 3 / 29 / 24


Notary Public in and for Doddridge County
My Commission expires on

The 20 day of May 2025



Floodplain Public Notice • Legal Notice

Please take notice that on the (13th) of (March), 2024, (Antero Midstream) filed an application for a Floodplain Permit (#24-650) to develop land located at or about (2187 Arnolds Creek Road); Coordinates: 39.25376, -80.811637. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance with 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 (April 22, 2024) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 101 Church Street, Suite #102, West Union, WV 26456. This project is for or the Oxford 98 Pipeline slip repair project
C2 3/22 - 3/29

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 R. Britton
1960 Arnolds Creek
West Union, WV 26456



9590 9402 7059 1225 4211 47

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

X *P. Sue Britton*

☒ Agent
☐ Addressee

B. Received by (Printed Name)

P. Sue Britton

C. Date of Delivery

9-1-24

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
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

USPS TRACKING #



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

9590 9402 7059 1225 4211 47

**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain Manager
101 Church Street, Suite 102
West Union, WV 26456

24-650

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:

Gerald C. & Juanita Turner
58 Turner Drive
West Union, WV 26456



9590 9402 7059 1225 4211 61

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

Gerry Turner

C. Date of Delivery

3/29/24

D. Is delivery address different from item 1?

☐ Agent

☒ Addressee

☒ 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

☐ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery

USPS TRACKING #



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

9590 9402 7059 1225 4211 61

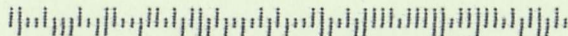
**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain Manager
101 Church Street, Suite 102
West Union, WV 26456

24-650

6-119427



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- 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:

Karlen S. Browning
1899 Grosse Creek Road
Waynesboro, VA 22980



9590 9402 7059 1225 4211 54

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)

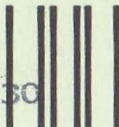
☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

USPS TRACKING #



RICHMOND VA RPDC 230

25 MAR 2024 PM 6 L



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

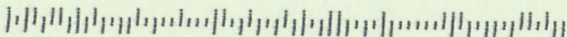
9590 9402 7059 1225 4211 54

**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain Manager
101 Church Street, Suite 102
West Union, WV 26456

24-650



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Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee

\$

4.40

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

☒ Return Receipt (hardcopy)

\$

3.65

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

\$

.64

Total Postage and Fees

\$

8.69

Sent To

Michael R. Britton

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

1960 Arnolds Creek

City, State, ZIP+4®

West Union, WV 26456

24-650

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee

4.40

\$

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

☒ Return Receipt (hardcopy)

\$ 3.65

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

.64

\$

Total Postage and Fees

8.69

\$

Sent To

Karlen S. Browning

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

1899 Goose Creek Rd.

City, State, ZIP+4®

Waynesboro, VA 22980

24-650

7022 1670 0003 1400 8939

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee

\$ 4.40

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

☒ Return Receipt (hardcopy)

\$ 3.65

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

\$.64

Total Postage and Fees

\$ 8.69

Sent To

Gerald C. & Juanita Turner

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

58 Turner Dr.

City, State, ZIP+4®

West Union, WV 26456 24-650

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

See Reverse for Instructions

7022 1670 0003 1400 8922