

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION				FOR INSURANCE COMPANY USE	
A1. Building Owner's Name City of Buckhannon - Building 3				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 395 Mud Lick Road				Company NAIC Number:	
City Buckhannon		State West Virginia		ZIP Code 26201	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Upshur (Corporation) District TM 5F Parcel 52.10 DB 484 PG 656 - 5.02 AC Mudlick					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Non-Residential</u>					
A5. Latitude/Longitude: Lat. <u>39.008024</u> Long. <u>-080.253645</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983					
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.					
A7. Building Diagram Number <u>1A</u>					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) _____ sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____					
c) Total net area of flood openings in A8.b _____ sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No					
A9. For a building with an attached garage:					
a) Square footage of attached garage _____ sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____					
c) Total net area of flood openings in A9.b _____ sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No					
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number Buckhannon, City of 540199			B2. County Name Upshur County		B3. State West Virginia
B4. Map/Panel Number 540797C0019D	B5. Suffix D	B6. FIRM Index Date	B7. FIRM Panel Effective/ Revised Date 09-29-2010	B8. Flood Zone(s) A	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 1412.4'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input checked="" type="checkbox"/> Other/Source: <u>Huntington District US Army Corps of Engineers</u>					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 395 Mud Lick Road			Policy Number:
City Buckhannon	State West Virginia	ZIP Code 26201	Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: WW 22A @ Upshur Airport Vertical Datum: NAD 83

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- | | | | |
|---|---------------|--|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>1419.4</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | <u>1419.5</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>1418.6</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>1419.2</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | _____ | <input type="checkbox"/> feet | <input type="checkbox"/> meters |

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.

Certifier's Name Michael W. Ash	License Number WV PS #2204		
Title Professional Surveyor			
Company Name Mountain State Land Surveying			
Address P.O. Box 351			
City West Milford	State West Virginia	ZIP Code 26451	
Signature 	Date 12-03-2020	Telephone (304) 476-8668	Ext.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

Line A5: West Virginia Flood Tool

Line B10: Huntington District, U.S. Army Corps of Engineers

Line C2e: Boiler

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City Buckhannon	State West Virginia	ZIP Code 26201	Company NAIC Number

**SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED)
 FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet meters above or below the HAG.

E3. Attached garage (top of slab) is _____ feet meters above or below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____ feet meters above or below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name _____

Address	City	State	ZIP Code
Signature	Date	Telephone	

Comments

Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008
Expiration Date: November 30, 2022

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City Buckhannon	State West Virginia	ZIP Code 26201	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One

Photo One Caption Building 3 Front View - Looking South East

Clear Photo One



Photo Two

Photo Two Caption Building 3 Rear View - Looking North East

Clear Photo Two

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008
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If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



Photo Three

Photo Three Caption Building 3 Rear View - Looking North West

Clear Photo Three

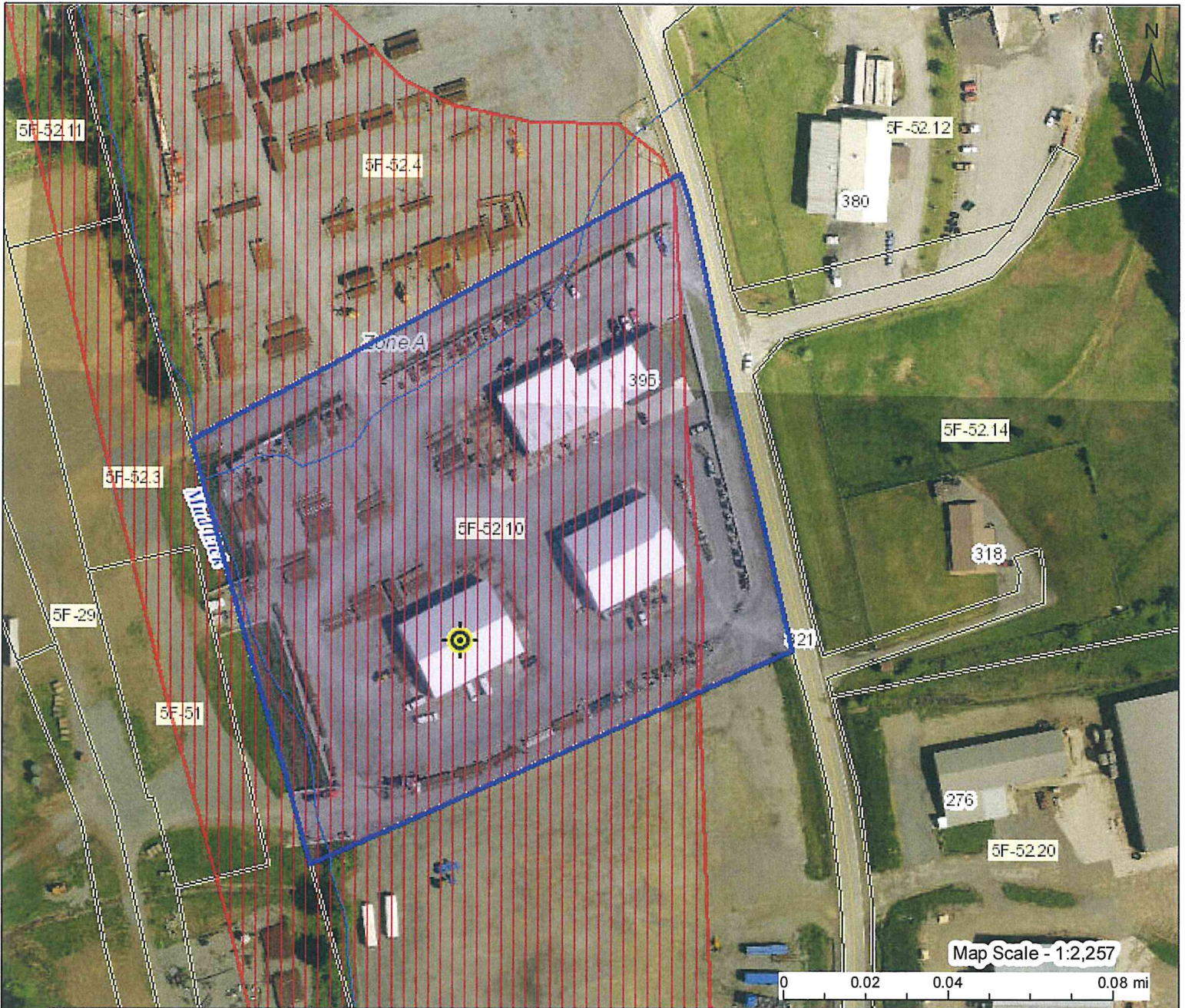


Photo Four






Photo Four Caption Building 3 - Lowest Machinery

Clear Photo Four

Building 3

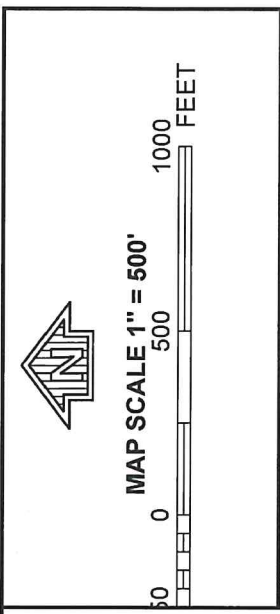
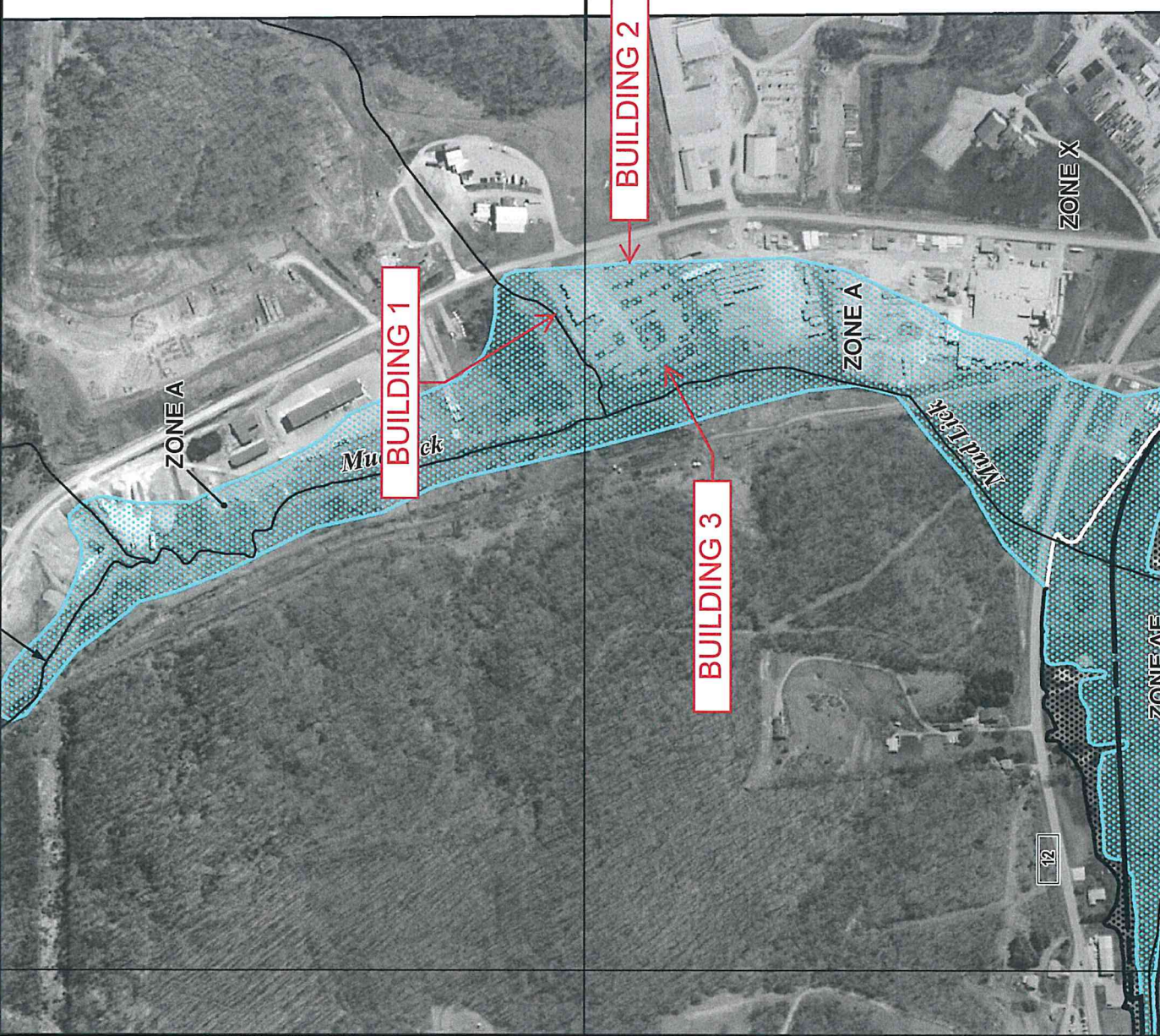


This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

H I G H		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)	 Flood Info Location <i>Map created on 12/3/2020</i>																										
		Regulatory Floodway in AE Zone																											
R I S K		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)	<table border="1"> <tr> <td>User Notes</td> <td></td> </tr> <tr> <td>Flood Hazard Area</td> <td>Location is WITHIN the FEMA 100-year floodplain.</td> </tr> <tr> <td>Flood Zone</td> <td>A</td> </tr> <tr> <td>Stream</td> <td>Mud Lick</td> </tr> <tr> <td>Watershed (HUC8)</td> <td>Tygart Valley (5020001)</td> </tr> <tr> <td>Flood Height</td> <td>Flood Height 6b None</td> </tr> <tr> <td>Water Depth</td> <td></td> </tr> <tr> <td>Elevation</td> <td>1420.8 ft (Source: SAMS 2003) (NAVD88)</td> </tr> <tr> <td>Community & ID</td> <td>Upshur County (ID: 540198)</td> </tr> <tr> <td>FEMA Map & Date</td> <td>54097C0019D; Effective Date: 9/29/2010</td> </tr> <tr> <td>Location (lat, long)</td> <td>(39.008024, -80.253645) (WGS84)</td> </tr> <tr> <td>Parcel ID</td> <td>49-02-005F-0052-0010</td> </tr> <tr> <td>E-911 Address</td> <td>multiple addresses</td> </tr> </table>	User Notes		Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain.	Flood Zone	A	Stream	Mud Lick	Watershed (HUC8)	Tygart Valley (5020001)	Flood Height	Flood Height 6b None	Water Depth		Elevation	1420.8 ft (Source: SAMS 2003) (NAVD88)	Community & ID	Upshur County (ID: 540198)	FEMA Map & Date	54097C0019D; Effective Date: 9/29/2010	Location (lat, long)	(39.008024, -80.253645) (WGS84)	Parcel ID	49-02-005F-0052-0010	E-911 Address	multiple addresses
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E-911 Address	multiple addresses																												
	1-Percent-Annual-Chance High Risk Advisory																												

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.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0019D

FIRM
FLOOD INSURANCE RATE MAP


**UPSHUR COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS**

PANEL 19 OF 375
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:	
COMMUNITY	BUCKHANNON, CITY OF
NUMBER	540198
PANEL	0019
SUFFIX	D

Notice to User: The Map Number shown below should be used only for identification purposes. The actual map number shown above should be used on insurance applications for the subject community.

MAP NUMBER
54097C0019D
EFFECTIVE DATE
SEPTEMBER 29, 2010


Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov




Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, VITA, Esri, HERE, Garmin, INCREMENT P, NGA, USGS



**US Army Corps
of Engineers**

**HUNTINGTON DISTRICT, US ARMY CORPS OF ENGINEERS
FLOODPLAIN MANAGEMENT SERVICES**

502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701
1-866-401-3980 [Email: foms-lrh@usace.army.mil](mailto:foms-lrh@usace.army.mil)
08 December 2020 2:05:32 PM

ID:	2011-3009-0953	DATE IN:	11/30/2020	DATE OUT:	12/8/2020
CONTACT:	Jay Hollen	STATE:	WV		
INTEREST:	City, Town, Village, etc	COUNTY:	Upshur		
PHONE:	(304) 613-0002	 LAT:	39.00797		
REQUEST:	Base Flood Elevation - GIS	LON:	-80.25381		
LOCATION:	395 Mud Lick Rd, Buckhannon, WV 26201				
EXCEPTION:	Large Area Zone A BFE with surveyed cross sections				

RESPONSE

XS1 BFE - 1411.6 (NAVD88)
XS2 BFE - 1413.8 (NAVD88)

ISSUED BFE:
1412.4 EL FT (NAVD88) for ID point location

CALCULATIONS:

Cross sections provided by Michael Ash, Turning Point Solutions, PLLC, dba Mountain State Land Surveying, 342 Sandstone Drive, Lost Creek, West Virginia 26385, 304-476-8668, michael@mtnlandsurveying.com.

Basin areas were measured in a geographical information system (GIS) using a point on line with the cross sections and going upstream. Manning's N values were derived from the current National Landcover Dataset and aerial photography. Cross sections (XS) were surveyed and a USGS StreamStats (NSS) regression equation used to determine discharge at the cross section locations as well as an slope (EG Slope). A water surface was created from the cross sections representing the BFE values and contours were created from the surface using GIS tools.

NSS Crippen & Bue Flood Region "4"
NSS WV Region "Central"
XS1: Drainage Basin - 2.16 SQ MI PK100: 550 CFS
XS2: Drainage Basin - 2.07 SQ MI PK100: 532 CFS

XS1 EG Slope: 0.0045
XS2 EG Slope: 0.0042



**US Army Corps
of Engineers**

**HUNTINGTON DISTRICT, US ARMY CORPS OF ENGINEERS
FLOODPLAIN MANAGEMENT SERVICES**

502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701
1-866-401-3980 [Email: fpms-lrh@usace.army.mil](mailto:fpms-lrh@usace.army.mil)
08 December 2020 2:05:32 PM

XS1 Manning's N: Left Channel Bank-0.06, Channel: 0.04, Right Channel Bank: 0.05

XS2 Manning's N: Left Channel Bank-0.06, Channel: 0.04, Right Channel Bank: 0.05

XS1 BFE 1411.58 (NAVD88) see map

XS2 BFE 1413.84 (NAVD88) see map

The information provided in this letter reflects FEMA National Flood Insurance Program standards. It is recommended that the local floodplain coordinator be contacted for information concerning local policies. Property location was determined from a detailed interview process and coordinates.



US Army Corps
of Engineers.

HUNTINGTON DISTRICT, US ARMY CORPS OF ENGINEERS FLOODPLAIN MANAGEMENT SERVICES

502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701
1-866-401-3980 [Email: fpms-lrh@usace.army.mil](mailto:fpms-lrh@usace.army.mil)
08 December 2020 2:05:32 PM

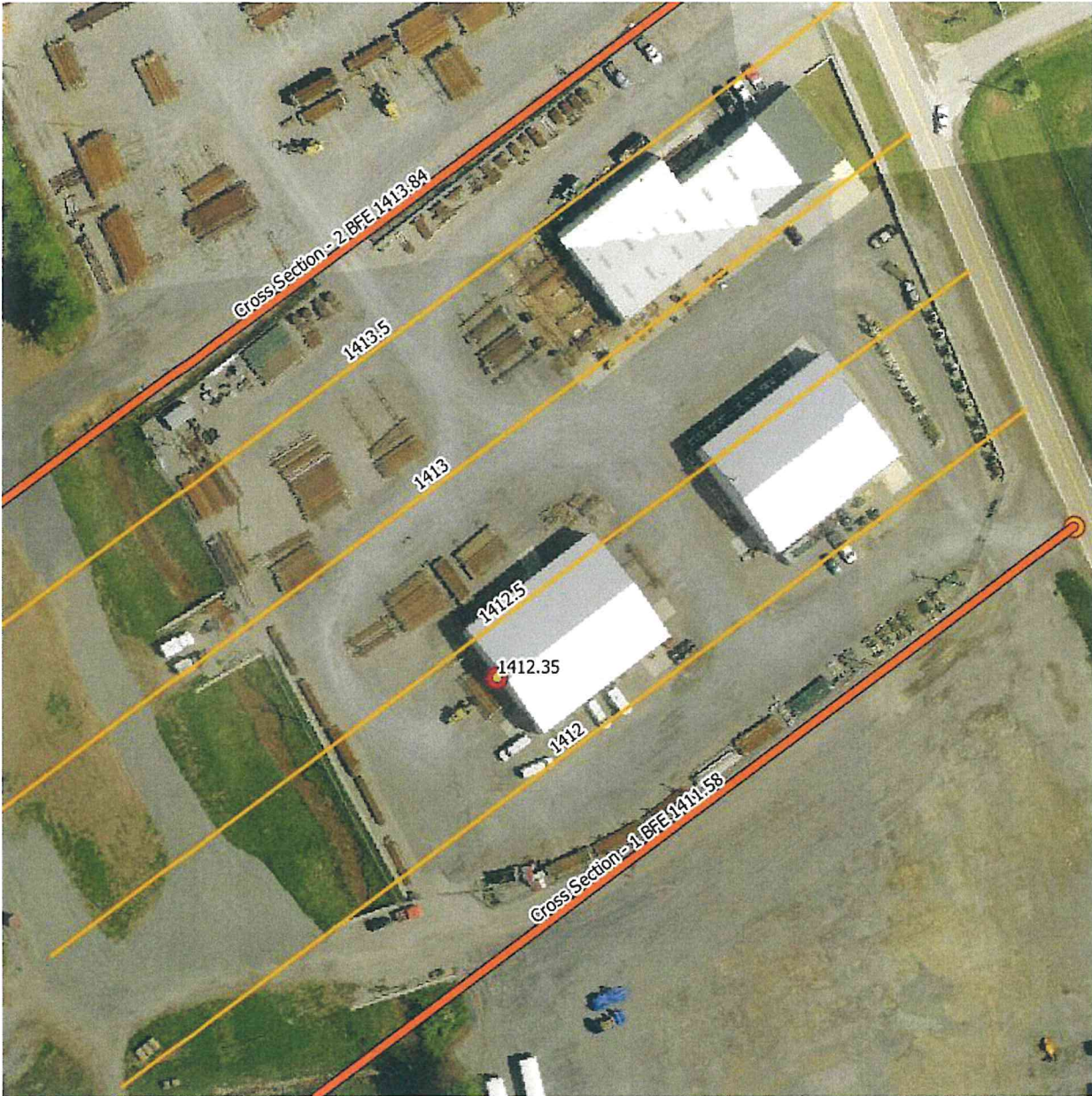


Figure shows referenced request coordinate point as a red dot with a resulting BFE value. The two cross sections used to calculate the BFE water surface are shown as red lines and labeled with reference ID numbers. The resulting BFE water surface calculated from the cross sections was used to create contours lines at a 0.5 foot interval. These are shown in orange and labeled with their BFE elevation values.



**US Army Corps
of Engineers**

**HUNTINGTON DISTRICT, US ARMY CORPS OF ENGINEERS
FLOODPLAIN MANAGEMENT SERVICES**

502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701
1-866-401-3980 [Email: foms-lrh@usace.army.mil](mailto:foms-lrh@usace.army.mil)
08 December 2020 2:05:32 PM

CONFIDENTIAL PRIVILEGED INFORMATION: The information contained in this communication is confidential and/or privileged, proprietary information that is transmitted solely for the purpose of the intended recipient(s). If the reader of this message is not an intended recipient, or if this message has been inadvertently directed to your attention, you are hereby notified that you have received this communication and any attached document(s) in error, and that any review, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately and destroy all copies of the original communication.

The information obtained from this office is authorized in support of the Federal Emergency Management Agency's (FEMA) National Flood Insurance Program (NFIP) and is authorized by US Army Corps of Engineer ER 1105-2-100: Planning Guidance Notebook. This information is considered provisional and/or the "best available data" and may be subject to revision. The data is released on the condition that neither the US Army Corps of Engineers nor the United States Government may be held liable for any damages resulting from its use.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jay Aya-ay', with a long horizontal flourish extending to the right.

Jay Aya-ay
Chief, Planning Branch