

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to Crestwood Marcellus Midstream LLC, and is for the approved commercial and/or industrial development project associated with this permit 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: #14-197

Date Approved: 07/02/2014	Expires: N/A
Issued to: Thrasher	POC: Matthew Fluharty
Company Address:	800-273-6541
Project Address:	
Firm: N/A	
Purpose of development: Pipeline. <u>Pro</u>	ject does not impact floodplain.
Issued by: Edwin L. "Bo" Wriston, Dodd	Iridge County FPM (or designee)
	Date:07/02/2014

April 17, 2014

Mr. Bo Wristen **Doddridge County Commission** 118 East Court Street West Union, WV 26456

RE:

Doddridge County Location Improvement Permit Crestwood Marcellus Midstream, LLC Hardwood to Tie In Pipeline Doddridge County, West Virginia Thrasher Project #101-015-0209

To Mr. Wristen:

On behalf of Crestwood Appalachia Pipeline LLC (Crestwood), The Thrasher Group, Inc., is submitting to your office for review and approval an application package for a Doddridge County Location Improvement Permit for a proposed pipeline in the USGS New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV. The proposed area of interest (AOI) for the Hardwood to Tie-In consists of a seventy-five foot (75') construction right-of-way (ROW). The proposed buried 12" steel Hardwood to Tie In pipeline originates at the Hardwood Well Pad located at approximately N 39.257367 / W 80.651194. From there it extends approximately 4,510 LF to an above ground riser located in a 150' x 150' Tie-In area located at the coordinates, N 39.249334 / W 80.65929. The proposed project will also involve expanding an existing access road as well as creating addition 50' x 100' workspaces.

The proposed Hardwood to Tie In pipeline is located entirely out of the floodplain. Please see attached WV Flood Tool Map and FEMA issued FIRM Map (Doddridge County Panel 145 of 325) with the pipeline overlaid.

The USGS topographical map, aerial imagery map, FIRM map, and WV Flood Tool Map contained herein depict the proposed limits of disturbance associated with the proposed construction. Additionally, please see attached permit application, and permit fee worksheet, as well as copies of all required federal and state permit applications. No above-ground structures are proposed to be constructed within the 100 year floodplain. Note that all required federal and state permit applications have been submitted for the project and are attached. Approvals will be forwarded to your office upon receipt.

If any further documentation is required for this project, or if any questions may arise please feel free to contact me at your convenience at (304) 624-4108 or tspear@thrashereng.com.

Mr. Wristen Page 2 of 2 April 17, 2014

Sincerely,

THRASHER GROUP, INC.

Tylér L. Speár

Environmental Scientist

Enclosures

 $R: \verb|\|O15-O209| Crestwood-Hardwood to Tie In Pipeline \verb|\|Documents| Permitting \verb|\|Environmental| Correspondence \verb|\|DCLIP| CoverLetter| CoverLe$

Crestwood Marcellus Midstream LLC

Hardwood to Tie In Pipeline

THRASHER GROUP, INC. PROJECT # 101-015-0209

DODDRIDGE COUNTY LOCATION IMPROVEMENT PERMIT



DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)

- 1. No work may start until a permit is issued.
- 2. The permit may be revoked if any false statements are made herein.
- 3. If revoked, all work must cease until permit is re-issued.
- **4.** Development shall not be used or occupied until a Certificate of Compliance is issued.
- 5. The permit will expire if no work is commenced within six months of issuance.
- **6.** Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
- 7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
- 8. I, THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

APPLICANT'S SIGNATURE	Motor Wish	
DATE	4/16/14	·

SECTION 2: PROPOSE DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.

APPLICANT'S NAME:_	Crestwood Marcellus Midstream LLC	
ADDRESS: 801 Cherry St.	, Suite 3800 Fort Worth, TX 76102	
TELEPHONE NUMBER:	(817) 339-5400	

ADDRESS:	
TELEPHONE NUMBER:	W. FL
	LINE STEP
ENGINEER'S NAME: Matthew Fluharty, PE, 7	The Thrasher Group, Inc.
ADDRESS: 600 White Oaks Blvd., Bridgeport, W	V 26330 = 16373
TELEHONE NUMBER: (304) 624-4108	id in
	11. So
PROJECT LOCATION:	A MONAL TO THE PROPERTY OF THE
	o pour cos
NAME OF SURFACE OWNER/OWNERS (IF NOT	THE APPLICANT) Please see attachment.
	THE ATTERCALLY
ADDRESS OF SURFACE OWNER/OWNERS (IF N	OT THE APPLICANT)
DISTRICT:	
DISTRICT:DISTRICT:DISTRICT:	
DISTRICT:DATE/FROM WHOM PROPERTY PURCHASED:	
DISTRICT: DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION:	
DISTRICT: DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: DEED BOOK REFERENCE:	
DISTRICT: DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: DEED BOOK REFERENCE: TAX MAP REFERENCE:	
DISTRICT: DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: DEED BOOK REFERENCE: TAX MAP REFERENCE: EXISTING BUILDINGS/USES OF PROPERTY:	
DISTRICT: DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: DEED BOOK REFERENCE: TAX MAP REFERENCE: EXISTING BUILDINGS/USES OF PROPERTY: NAME OF AT LEAST ONE ADULT RESIDING IN EA	
ADDRESS OF SURFACE OWNER/OWNERS (IF NO DISTRICT: DATE/FROM WHOM PROPERTY PURCHASED: LAND BOOK DESCRIPTION: DEED BOOK REFERENCE: TAX MAP REFERENCE: EXISTING BUILDINGS/USES OF PROPERTY: NAME OF AT LEAST ONE ADULT RESIDING IN EXPROPERTY ADDRESS OF AT LEAST ONE ADULT RESIDING IN	ACH RESIDENCE LOCATED UPON THE SUBJEC

To avoid delay in processing the application, please provide enough information to easily identify the project location.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

	<u>AC</u>	TIVITY				STRUCTU	RAL TYPE	
0 0 0 0 0 0	New Structure Addition Alteration Relocation Demolition Manufactured/Mobil Home OTHER DEVEOPLMENT ACTIVITIES		[] n [] tured/Mobil Home		0 0 0	Residential (1 – 4 Family) Residential (more than 4 Family) Non-residential (floodproofing) Combined Use (res. & com.) Replacement		
0 0 0 0 0 0 0	Watercours Drainage In Road, Stree Subdivision	se Alteron nproven et, or Brid (includi Water or	Mining for STRUCTUF ration (includinate) dge Construct ng new expan Sewer Systen fy)	ng dredg ng culver ion ision)	ing and ch	Γchecked at		, :
3. ACTU	SUBMIT AL IF STANDAI SKETCH ON THE LOT. S INDICATING STRUCTURE SIGN AND I	L STAND RD SITE I A SEPAI HOW TH B BUILDII ES OR LA DATE TH CONSTI	IE LOCATION (NG SETBACKS, ND USES ON 1 E SKETCH.	NNS, IF AI NOT BEE INCH SH OF THE IN , SIZE & H THE PROF	N PREPAR EET OF PA NTENDED HEIGHT. II PERTY. THE CO PART OF	RED: APER THE SH CONSTRUCT DENTIFY EXI MPLETE D THE SUBJ	TAPE AND LOCATION OR LAND USTING BUILDING EVELOPMEN ECT PROPOSI	USE GS, I T

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

OF THE SURFACE TRACT (UP & DOWN STREAM) UPON WHICH THE PROPOSED **ACTIVITY WILL OCCUR AND ALL OTHER SURFACE OWNERS UP & DOWN STREAM)** WHO OWN PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN COMPLETED). NAME: NAME: ADDRESS: ADDRESS: NAME:____ NAME:____ ADDRESS:_____ ADDRESS:____ 1. NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON ANY ADJACENT PROPERTY AT THE TIME THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY. NAME:_____ NAME:____ ADDRESS:____ ADDRESS:____ NAME:____ NAME:____ ADDRESS:____ ADDRESS:

1. NAME AND ADDRESS OF ALL OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA

E. CONFIRMATION FORM

THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.

FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPE	ALS BOARD FOR
REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.	FICACY OF
IAME (PRINT): Matthew W Flherty	
IGNATURE: Watt Life DATE: 4/	16/14
After completing SECTION 2, APPLICANT should submit form to Floodplain administrator/Manager or his/her representative for review.	
ECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floo	<u>odplain</u>
Administrator/Manager or his/her representative)	
HE PROPOSED DEVELOPMENT:	
HE PROPOSED DEVELOPMENT IS LOCATED ON:	
IRM Panel:	
ated:	
Is <u>NOT</u> located in a Specific Flood Hazard Area (Notify applicant that the activities is complete and NO FLOOPLAIN DEVELOPMENT PERMIT IS REQUIRED).	application
Is located in Special Flood Hazard Area.	;
FIRM zone designation	
100-Year flood elevation is:	NGVD (MSL)
Unavailable	
The proposed development is located in a floodway. FBFM Panel No Dated	

COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.

CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY

(D)

(E)

See section 4 for additional instructions.

[]

SIGNED FA

DATE 4/24/14

SECTION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by Floodplain Administrator/Manager or his/her representative)

The applicant must submit the documents checked below before the application can be processed.

[]	A plan showing the location of all existing structures, water bodies, adjacent roads, lot dimensions and proposed development.
[]	Development plans, drawn to scale, and specifications, including where applicable: details for anchoring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawl space), types of water resistant materials used below the first floor, details of flood proffing of utilities located below the first floor and details of enclosures below the first floor. Also
[]	Subdivision or other development plans (If the subdivision or development exceeds 50 lots or 5 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).
[]	Plans showing the extent of watercourse relocation and/or landform alterations.
()	Top of new fill elevationFt. NGVD (MSL). For floodproofing structures applicant must attach certification from registered engineer or architect.
	Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.
[]	Manufactured homes located in a floodplain area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA)

l by Floodplain e)
not) in conformance with inty Commission of Doddridge ne conditions attached to an
DATE
ove was not in conformance dinance and/or denied that ess below.
dridge County? [] Yes {} No
[] Yes [] No
u u

SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is issued).

The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

COMPLETE 1 OR 2 BELOW:

1	Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space isFT. NGVD (MSL)
2	Actual (As Built) elevation of floodproofing isFT. NGVD (MSL)
Note:	Any work performed prior to submittal of the above information is at risk of the cant.
SECT	ION 7: COMPLIANCE ACTION (To be completed by the Floodplain
<u>Adm</u>	inistrator/Manager or his/her representative).
as app	loodplain Administrator/Manager or his/her representative will complete this section plicable based on inspection of the project to ensure compliance with the Doddridge by Floodplain Ordinance.
IN	SPECTIONS:
	DATE:BY: DEFICIENCIES ? Y/N
CC	DMMENTS
SECTI	ON 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain
Admi	nistrator/Manager or his/her representative).
Certifi	rate of Compliance issued: DATE:

CERTIFICATE OF COMPLIANCE FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (OWNER MUST RETAIN)

PE PE	RMIT NUMBER:	
PURPOSI	E —	
CONSTRUCTION LOCATION:		
OWNER'S ADDRESS:		
	·	
THE FOLLOWING MUST BE CADMINISTRATOR/MANAGE	COMPLETED BY THE FLOODPLAIN R OR HIS/HER AGENT.	
COMPLIANCE IS HEREI	BY CERTIFIED WITH THE REQUIREMENT OF THE	
FLOODPLAIN ORDINANCE AI DODDRIDGE COUNTY ON MA	DOPTED BY THE COUNTY COMMISSION OF	
SIGNED	DATE	

Hardwood to Tie In Pipeline Project Jurisdictional Features Stream and Wetland Delineation Photo Log 4/1/2014



1) Wetland 1 (PEM) facing North



3) Wetland 1 (PEM) facing East



2) Wetland 1 (PEM) facing South



4) Wetland 1 (PEM) facing West

Hardwood to Tie In Pipeline Project Jurisdictional Features Stream and Wetland Delineation Photo Log 4/1/2014



5) Wetland 1 (PEM) Test Pit



7) UNT 1 (INT) facing Upstream



6) Wetland 1 (PEM) Soil Profile



8) UNT 1 (INT) facing Downstream

Hardwood to Tie In Pipeline Project Jurisdictional Features Stream and Wetland Delineation Photo Log 4/1/2014



UNT 2 (EPH) facing Upstream



UNT 3 (EPH) facing upstream



UNT 2 (EPH) facing Downstream 10)



UNT 3 (EPH) facing downstream 12)

Hardwood to Tie In Pipeline Project Jurisdictional Features Stream and Wetland Delineation Photo Log 4/1/2014



13) UNT 4 (INT) facing Upstream

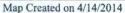


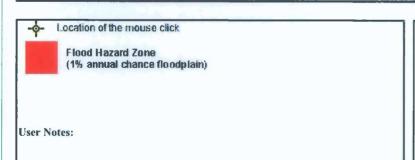
14) UNT 4 (INT) facing Downstream



Typical above ground riser valve

WV Flood Map Long Run CR-15/1 This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

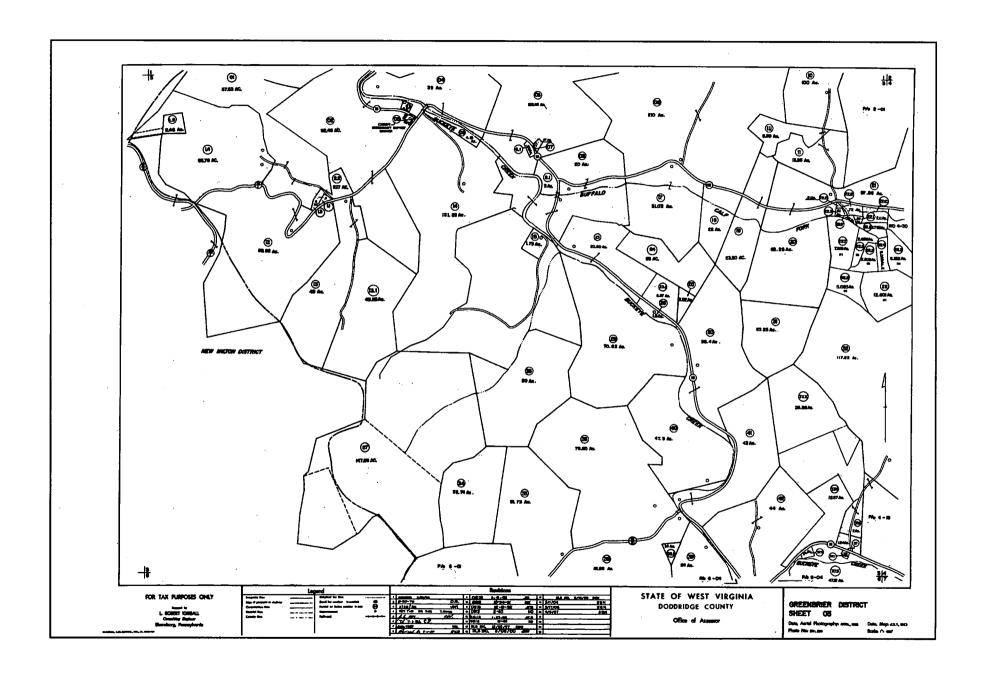




The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center (http://www.MapWV.gov/flood)

Flood Hazard Area: Elevation: N/A Location (long, lat): Location (UTM 17N): FEMA Issued Flood Map: Contacts: **CRS Information:** Parcel Number:



Google Maps Page 1 of 2



Drive 10.1 mi, 17 min

Directions from Doddridge County Court Clerk to Oak, WV, USA

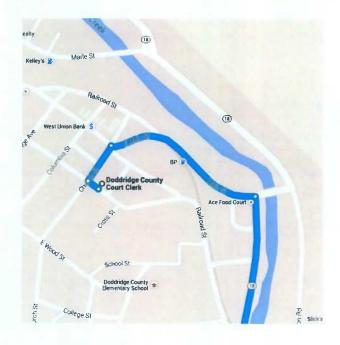


O Doddridge County Court Clerk

118 E Court St #102, West Union, WV 26456

Take WV-18 S to US-50 E

1. Head northwest on Court St toward
Church St
79 ft
2. Take the 1st right onto Church St
256 ft
3. Take the 2nd right onto E Main St
0.2 mi
4. Turn right onto WV-18 S



Turn left onto US-50 E

5.6 mi / 6 min

0.5 mi



Google Maps Page 2 of 2

Drive to Co Rte 15/Blacklick Rd/Sherwood-Greenbrier Rd in Oak

3.6 mi / 8 min

6. Turn right at Co Rte 50/35

0.1 mi

7. Take the 1st right onto Co Rte
 15/Blacklick Rd/Sherwood-Greenbrier
 Rd



Continue to follow Co Rte 15/Blacklick Rd

Turn left onto Blacklick Rd/Long Run Rd/Sherwood-Greenbrier Rd



Continue to follow Blacklick Rd/Sherwood-Greenbrier Rd

1.6 mi

- 9. Turn right onto Co Rte 15/Blacklick Rd/Sherwood-Greenbrier Rd
 - 1 Destination will be on the right

1.4 mi

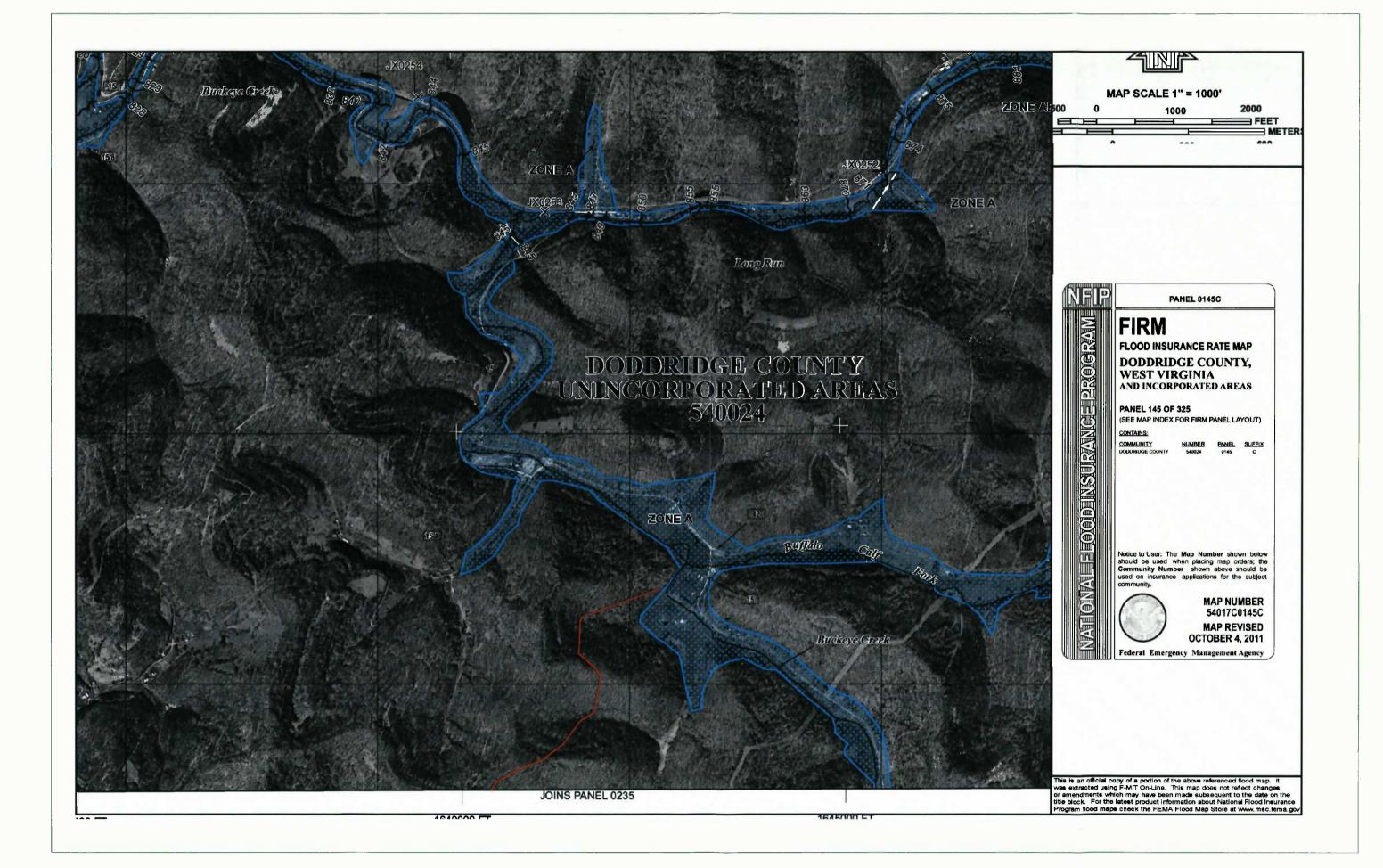


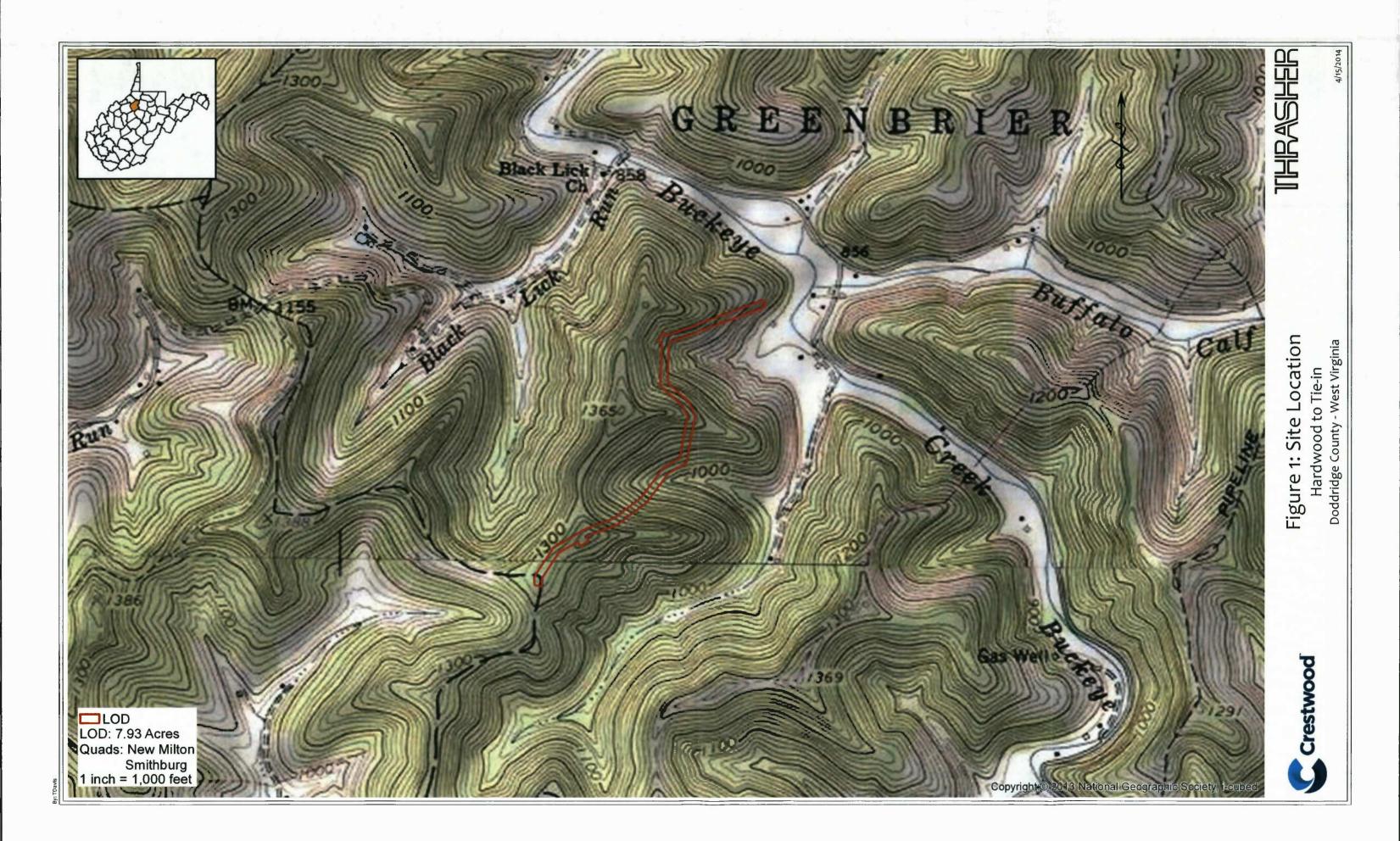
County Route 15

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

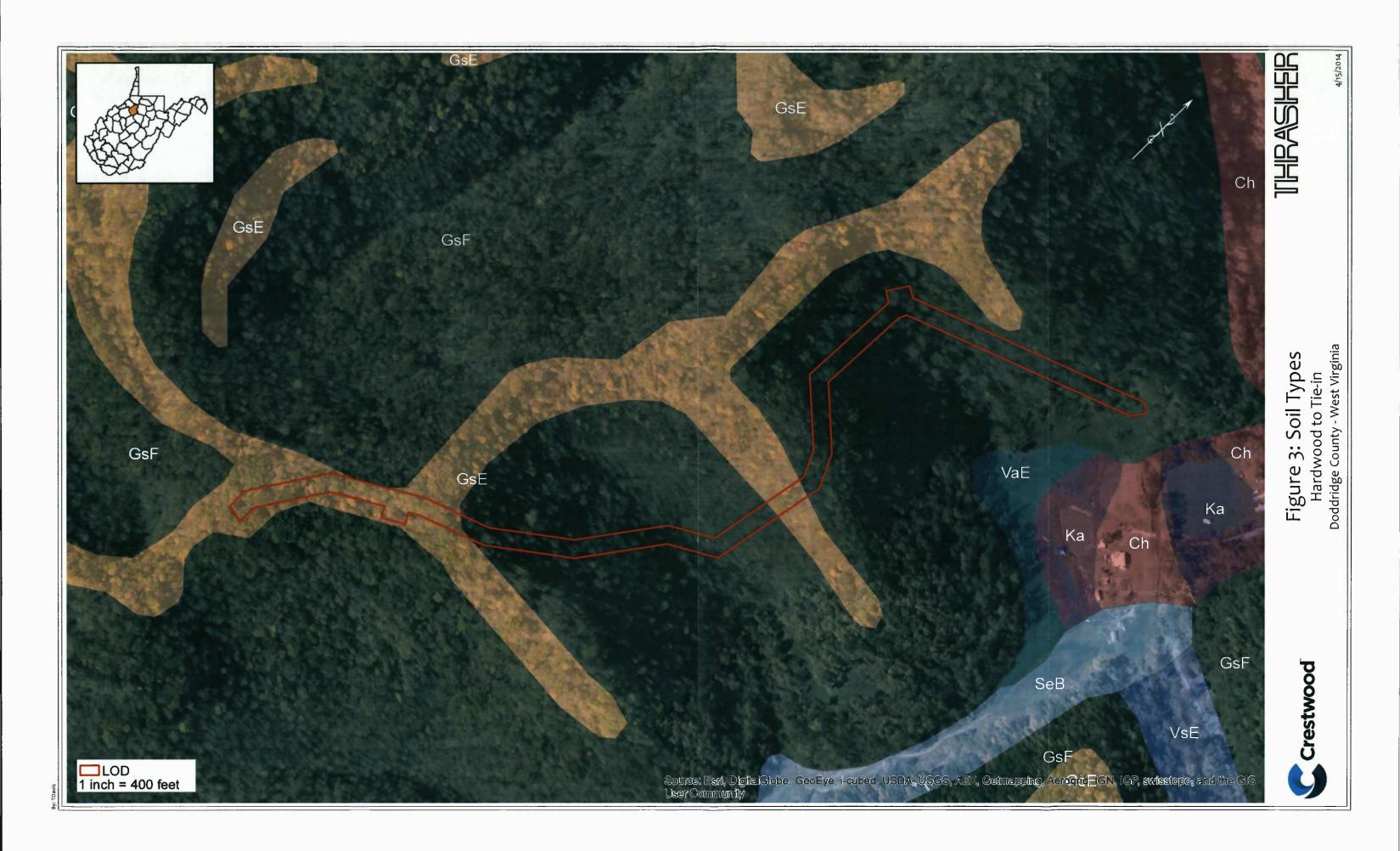
Map data ©2014 Google

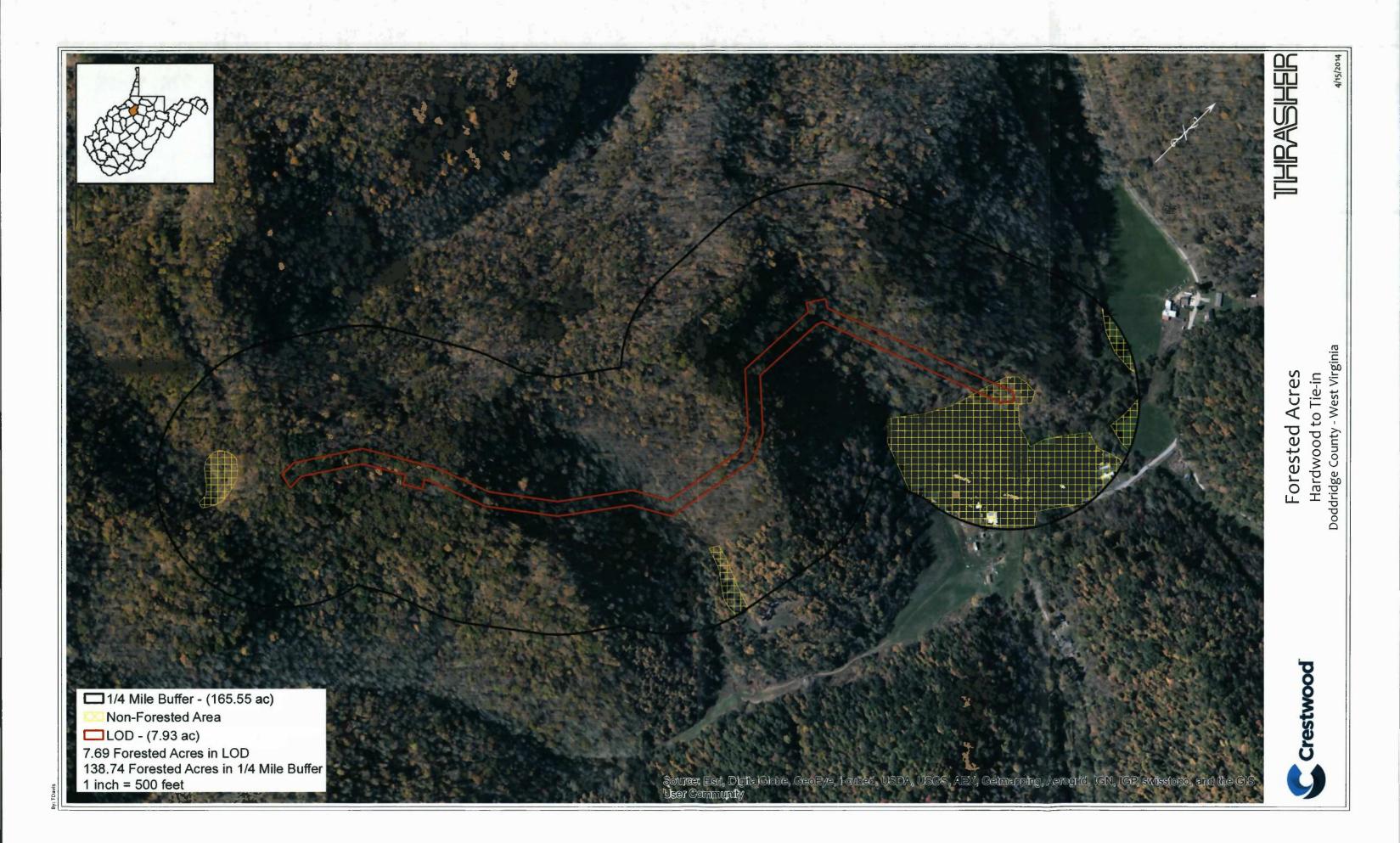


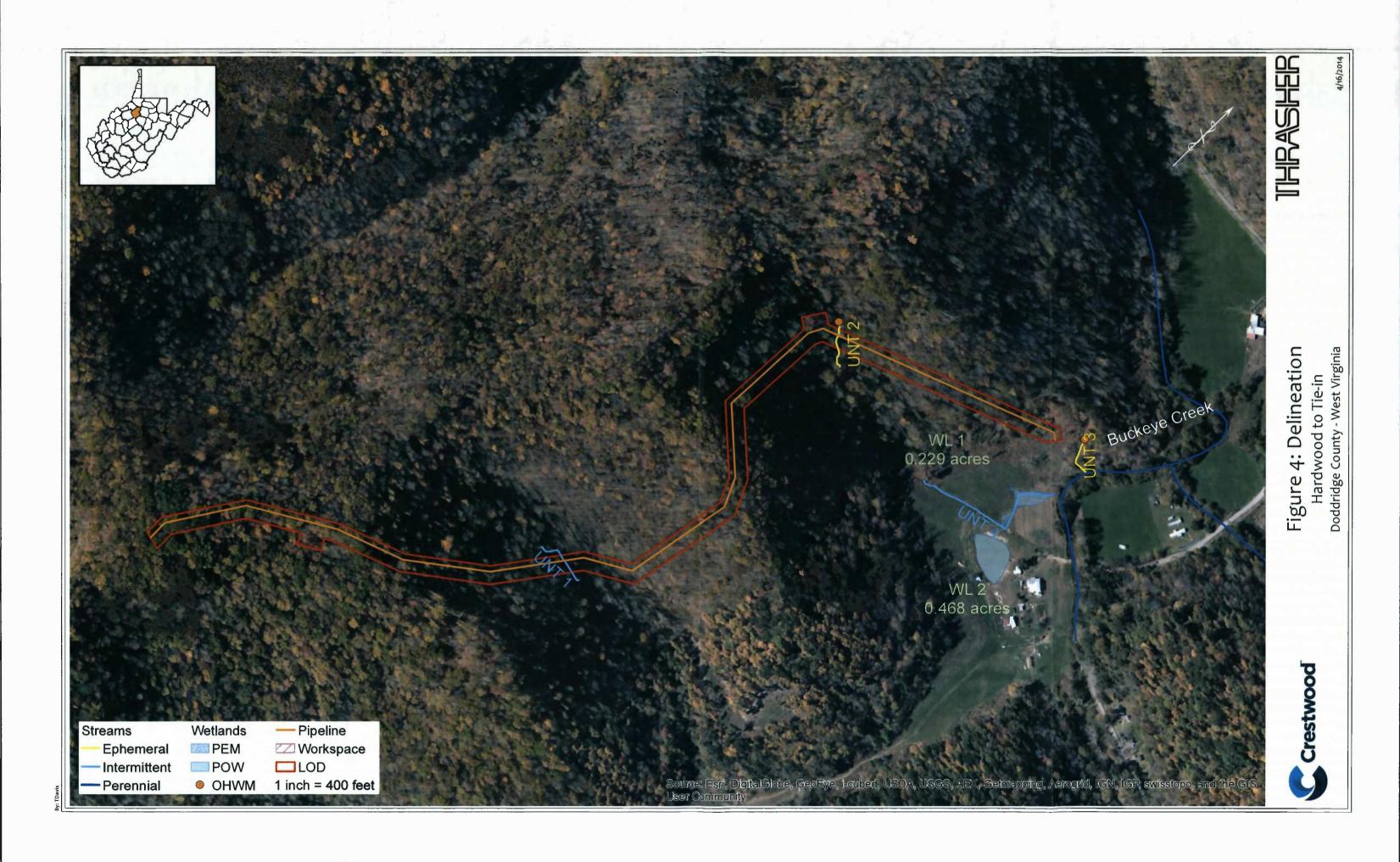












April 17, 2014

Mr. Joe Scarberry, Supervisor Office of Land and Streams WV Division of Natural Resources 324 Fourth Avenue, Room 200 South Charleston, WV 25303-1228

RE: Stream Activity Application
Crestwood Marcellus Midstream LLC
Hardwood Tie In Pipeline, Doddridge County, West Virginia
Thrasher Project #101-015-0209

Dear Mr. Scarberry:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group, Inc. (Thrasher), is submitting the following packet and Stream Activity Application to your office for a proposed linear pipeline project in the USGS New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV.

The proposed area of interest (AOI) for the Hardwood to Tie In pipeline consists of a 75' wide right-of-way (ROW) which contains approximately 8.45 acres. The proposed 12" steel Hardwood to Tie In pipeline originates at the Hardwood Well Pad located at approximately 39.249334 N / 80.65929 W. From there it extends 4,510 LF north east to an above ground riser located in a 150' x 150' Tie-In area at the coordinates, 39.257367 N / 80.651194 W. The proposed project will also involve expanding an existing access road as well as creating additional 50' x 100' workspaces.

Thrasher staff identified five (5) streams and two (2) wetlands during field investigations. Two (2) of the identified streams will be crossed and temporarily impacted using open cut construction methods. After the pipeline is installed the stream will be restored to original contour, slope, and grade at the time of completion. Thrasher understands all material removed during excavation will be temporarily side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion. The attached delineation mapping depicts all findings associated with the proposed Hardwood to Tie In pipeline AOI.

The USGS topographical map and aerial imagery map contained herein depict the proposed site. The included photo log displays all identified aquatic resources within the AOI as well as typical habitat within the intended AOI.

Mr. Scarberry Page 2 of 2 April 17, 2014

If any further documentation or permitting is required for this project, or if any questions may arise please feel free to contact me at your earliest convenience at (304) 624-4108 or tspear@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.

Tyler L. Spear

Environmental Scientist

Enclosure

R:\015-0209 - Crestwood - Hardwood to Tie In Pipeline - Environmental\Documents\Permitting\Environmental\Correspondence\WVDNR OLS\Cover Letter

April 17, 2014

Ms. Barbara Sargent, Environmental Resources Specialist Wildlife Diversity Unit WV Division of Natural Resources, Wildlife Resources Division P.O. Box 67 Elkins, WV 26241

RE: Rare, Threatened and Endangered Species Review
Crestwood Marcellus Midstream LLC
Hardwood to Tie In Pipeline, Doddridge County, West Virginia
Thrasher Project #101-015-0209

Dear Ms. Sargent:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group, Inc. (Thrasher), is submitting to your office, a request for habitat assessment for any rare, threatened and endangered (RTE) wildlife resources for a proposed linear pipeline project in the USGS New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV.

The proposed area of interest (AOI) for the Hardwood to Tie In pipeline consists of a 75' wide right-of-way (ROW) which contains approximately 8.45 acres. The proposed 12" steel Hardwood to Tie In pipeline originates at the Hardwood Well Pad located at approximately 39.249334 N / 80.65929 W. From there it extends 4,510 LF north east to an above ground riser located in a 150' x 150' Tie-In area at the coordinates, 39.257367 N / 80.651194 W. The proposed project will also involve expanding an existing access road as well as creating additional 50' x 100' workspaces.

Thrasher staff identified five (5) streams and two (2) wetlands during field investigations. Two (2) of the identified streams will be crossed and temporarily impacted using open cut construction methods. After the pipeline is installed the stream will be restored to original contour, slope, and grade at the time of completion. Thrasher understands all material removed during excavation will be temporarily side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion. The attached delineation mapping depicts all findings associated with the proposed Hardwood to Tie In pipeline AOI.

Of the 8.45 acres contained within the AOI, approximately 7.71 acres are forested and will require timbering before construction can commence. Please see attached forested

Ms. Sargent Page 2 of 2 April 17, 2014

acreage map. In addition, no specific Indiana Bat habitat, portals or caves were identified within the intended AOI.

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline route and the proposed 75' construction right of way. The included photo log displays all identified aquatic resources within the AOI as well as typical habitat along the proposed pipeline right of way.

If any further documentation or permitting is required for this project, or if any questions may arise please feel free to contact me at your earliest convenience at (304) 624-4108 or tspear@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.

Tyler L. Spear

Environmental Scientist

Enclosure

R:\015-0209 - Crestwood - Hardwood to Tie In Pipeline - Environmental\Documents\Permitting\Environmental\Correspondence\WVDNR RTE\Cover Letter

April 17, 2014

Ms. Susan Pierce, Deputy State Historic Preservation Officer The Cultural Center 1900 Kanawha Blvd., E. Charleston, WV 25305-0300

RE: WVSHPO Section 106 Review
Crestwood Marcellus Midstream LLC
Hardwood to Tie In Pipeline, Doddridge County, West Virginia
Thrasher Project #101-015-0209

Dear Ms. Pierce:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group, Inc. (Thrasher), is submitting to your office a review for environmental due diligence a proposed pipeline project in the USGS New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV.

The proposed area of interest (AOI) for the Hardwood to Tie In pipeline consists of a 75' wide right-of-way (ROW) which contains approximately 8.45 acres. The proposed 12" steel Hardwood to Tie In pipeline originates at the Hardwood Well Pad located at approximately 39.249334 N / 80.65929 W. From there it extends 4,510 LF north east to an above ground riser located in a 150' x 150' Tie-In area at the coordinates, 39.257367 N / 80.651194 W. The proposed project will also involve expanding an existing access road as well as creating additional 50' x 100' workspaces.

Thrasher staff identified five (5) streams and two (2) wetlands during field investigations. Two (2) of the identified streams will be crossed and temporarily impacted using open cut construction methods. After the pipeline is installed the stream will be restored to original contour, slope, and grade at the time of completion. Thrasher understands all material removed during excavation will be temporarily side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion. The attached delineation mapping depicts all findings associated with the proposed Hardwood to Tie In pipeline AOI.

The USGS topographical map and aerial imagery map contained herein depict the proposed site. The included photo log displays all aquatic resources within the AOI as well as typical habitat within the intended AOI.

Ms. Pierce Page 2 of 2 April 17, 2014

The attached slope map depicts that the majority of the pipeline is located on terrain which consists of slope greater than 20 percent. During field investigations, no historical buildings or archaeological resources were discovered onsite.

If any further consultation with your agency is required for this project, or if any questions may arise please feel free to contact me at your earliest convenience at (304) 624-4108 or tspear@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.

Tyler L. Spear

Environmental Scientist

 $R: \colon 15-0209 - Crestwood - Hardwood to Tie In Pipeline - Environmental \colon Cover Letter Environmental \colon Cover Letter \colon Cover Letter \colon Cover Letter \colon Cover \color \$

April 17, 2014

U.S. Fish and Wildlife Service West Virginia Field Office 694 Beverly Pike Elkins, WV 26241

RE: Project Review Request
Crestwood Marcellus Midstream LLC
Hardwood to Tie-In Pipeline, Doddridge County, West Virginia
Thrasher Project #101-015-0209

To whom it may concern:

On behalf of Crestwood Marcellus Midstream LLC (Crestwood), The Thrasher Group, Inc. (Thrasher) is submitting to your office a project review request for a proposed linear pipeline project in the USGS New Milton and Smithburg 7.5 minute quadrangles of Doddridge County, WV.

The proposed area of interest (AOI) for the Hardwood to Tie-In pipeline consists of a 75' wide right-of-way (ROW) which contains approximately 8.45 acres. The proposed 12" steel Hardwood to Tie-In pipeline originates at the Hardwood Well Pad located at approximately 39.249334 N / 80.65929 W. From there it extends 4,510 LF north east to an above ground riser located in a 150' x 150' Tie-In area at the coordinates, 39.257367 N / 80.651194 W. The proposed project will also involve expanding an existing access road as well as creating additional 50' x 100' workspaces.

Thrasher staff identified five (5) streams and two (2) wetlands during field investigations. Two (2) of the identified streams will be crossed and temporarily impacted using open cut construction methods. After the pipeline is installed the stream will be restored to original contour, slope, and grade at the time of completion. Thrasher understands all material removed during excavation will be temporarily side cast and used for backfill. The intended AOI will be returned to the original contour, slope, and grade at the time of completion. The attached delineation mapping depicts all findings associated with the proposed Hardwood to Tie-In pipeline AOI.

Of the 8.45 acres contained within the AOI, approximately 7.71 acres are forested and will require timbering before construction can commence. Please see attached forested acreage map. In addition, no specific Indiana Bat habitat, portals or caves were identified within the intended AOI.

U.S. Fish and Wildlife Services April 17, 2014 Page 2 of 2

The USGS topographical map and aerial imagery map contained herein depict the proposed pipeline right of way. The included photo log displays all aquatic resources identified within the AOI as well as typical habitat within the intended AOI. The CD included with this submittal contains shapefiles depicting the extent of the proposed AOI.

If any further documentation or permitting is requested for this project, or if any questions or concerns should arise, please feel free to contact me at your earliest convenience at (304) 624-4108 or tspear@thrashereng.com.

Sincerely,

THE THRASHER GROUP, INC.

Tyler L. Spear

Environmental Scientist

Enclosure

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