

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to CESO, Inc. CONSOL, & CNX Gas Company, 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: #14-250 ~ CNX Gas Company, LLC ~ Red-Orange Waterline

Date Approved: 11/13/2014 Expires: 11/13/2015

Issued to: CESO, CONSOL, CNX Gas Company, LLC

POC: Natalie Hooton 412-221-2236

Date: 11/13/2014

Company Address: 800 Bursca Drive STE 804

Bridgeville, PA 15017-1451

Project Address: Southwest District

Lat/Long: 39.187261N/80.790683W to 39.187741N/80.782164W

Purpose of development: Waterline construction.

Issued by: Edwin L. "Bo" Wriston, Doddridge County FPM (or designee)

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



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. 1. Article Addressed to: #14-250 I.L. Ike Morris 	A. Signature Agent Addressee Addres
PO Box 397 Glenville, WV 26351	3. Service Type iii Certified Mail® □ Priority Mail Express™ □ Registered □ Return Receipt for Merchandise □ Insured Mail □ Collect on Delivery
	4. Restricted Delivery? (Extra Fee)
2. Article Number 7013 2	250 0001 6914 9091
PS Form 3811, July 2013 Domestic Re	etum Receipt



Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

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Date: 11/13/2014

Legal Advertisement:

Doddridge County

Floodplain Permit Application

Please take notice that on the 30th day of July, 2014

CNX Gas Company LLC

filed an application for a Floodplain Permit to develop land located at or about:

39.187261N / 80.790683W to 39.187741N / 80.782164W

Permit #14-250 Red-Orange Waterline

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by August 27, 2014, delivered to:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager

CNX Gas Company LLC

P. O. Box 305

Canonsburg, PA 15317-0305

724-485-4031

Vendor No. 824536

Check No. 2780029952

DODDRIDGE COUNTY COMMISSION

Invoice Number Invoice Date	Invoice Amount	Discount Amount	Net Amount
RED/ORG WATERLIN 07/23/2014	1,772.50	0.00	1,772.50
	Check Total	ν	\$ 1,772.50
	:		
	:		
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	,		
4 14250			
0.1/1			
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1	·		

THIS CHECK IS TENDERED IN FULL SETTLEMENT OF YOUR INVOICES LISTED HEREON.

PLEASE DETACH REMITTANCE BEFORE CASHING.

Doddridge County, West Virginia

RECEIPT NO:		2693						DF	ATE: 2	2014/0	8/06	į		
]	FROM	: CNX	GAS COM	PANY				AM	OUNT: \$	5		1,772	2.50	
ONE THOUS	AND :	SEVEN	HUNDRED	SEVE	NTY	TWO	DOLI	LARS	AND 5	O CEN	TS			_
	FOR	: #14-	-250 CNX	GAS 1	RED	ORAN	IGE V	WATER	RLINE					-
027800299	952	FP-BU	JILDING	PERMI'	rs				020-	318	то	TAL: ş	51,772	.50
		HEADI	LEY REASURER	·							MEC LERK	-		

INVOICE

West Virginia Division of Natural Resources Heldlife Resources Section, P.O. Box 67, Elkins, WV 26241

Attention: Ms. Patty Fordyce

In Account With:

CESO, Inc.

Date: August 7, 2014

800 Bursca Drive, Suite 804 Bridgeville, PA 15017-1451

Attention:

Mr. Andrew Longenecker

For the retained and compilation of information on rare, threatened and endangered species and son it is habitats for the proposed Red to Orange Waterline project in Doddridge County, VVV.

AMOUNT DUE: \$75.00

Make check provible to WV Division of Natural Resources. Please reference the invoice number on $y \in {\tt check.}$ Mail to the above address and to the attention of Ms. Fordyce.



CNX Gas-Red-Orange Waterline

Doddridge County
Floodplain Permit Application
and Fees



NATALIE HOOTON, M.S.

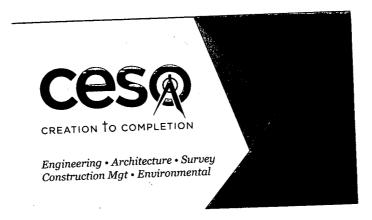
Staff Biologist

(412) 221-2236 (412) 639-2231 Cell, (412) 221-2267 Fax hooton@cesoinc.com

www.cesoinc.com

800 Bursca Drive, Suite 804 Bridgeville, Pennsylvania 15017-1451







800 Bursca Drive, Suite 804 Bridgeville, Pennsylvania 15017-1451 (412) 221-2236 www.cesoinc.com 14-250

July 29, 2014

Mr. Edwin "Bo" Wriston Doddridge County Floodplain Manager 118 East Court Street West Union, WV 26456

RE: CNX Gas- Red-Orange Waterline Doddridge County Floodplain Permit BETH ALKIGERS
COUNTY CLERK
DODDRIDGE COUNTY, WY

||\.|||| 30 PM ||2: 55

Dear Mr. Wriston:

CESO, Inc. is pleased to submit this information for a Doddridge County Floodplain Permit, for the proposed Red-Orange Waterline. CNX Gas Company, LLC (CNX), is proposing to construct a new temporary water transport system and associated construction access roads within a portion of Doddridge County, West Virginia. The proposed new waterlines will be approximately 0.48-miles connecting a water withdrawal point to a planned water storage tank. The proposed withdrawal point will be located east of the intersection of South Fork Hughes River Road and Upper Run Road near New Milton, West Virginia. The approximate coordinates for the withdrawal point of is 39.187261 N latitude, 80.790683 W longitude (NAD83) and the terminus at approximate coordinates 39.187741 N latitude, 80.782164 W longitude (NAD83).

CESO, Inc. has identified a total of one (1) unnamed waterway crossing in Doddridge County as a result of this project. Additionally, water will be withdrawal from the South Fork Hughes River within Doddridge County as identified above. The Doddridge County Development Permit Application further describing project characteristics is presented in Attachment 1. According to the FEMA Flood Insurance Rate Maps, one waterway within the project area, South Fork Hughes River, occurs within the FEMA 100-year floodplain. A map depicting the proposed alignment location as well as a table and map identifying stream crossings are also provided.

Waterway activity associated with the Red-Orange waterline project will be the result of one (1) temporary intake installation and one (1) crossing using cribbing and a temporary timber mat bridge. However, all waterways will be returned to their pre-disturbance plan, profile, and dimension after the pipe has been installed. In addition, proper construction sequencing and implementation of an approved erosion and sediment control plan will ensure water quality impacts are minimized throughout the project area and the proposed activities are in compliance with Nationwide Permit General Conditions and Regional General Conditions.

Should you have any questions or comments please don't hesitate to contact me at 412-221-2236 ext. 2009 or through email at https://doi.org/10.2016/nc.com.

Sincerely,

CESO, Inc.

Natalie Hooton Staff Biologist

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.
- If revoked, all work must cease until permit is re-issued. 3.
- Development shall not be used or occupied until a Certificate of Compliance is issued. 4.
- 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.
- Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her
- IS

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 KNOWY LEDGE, TRUE AND ACCURATE.						
APPLICANT'S SIGNATURE For CESO, Inc.						
27/00//						
DATE 07/29/2014						
' f						
SECTION 2: PROPOSED 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.						
ADDITIONALTIC MANAGE, CNV Gos Company II C						
APPLICANT'S NAME: CNX Gas Company, LLC ADDRESS: c/o Adam White, One Energy Drive PO Box 1248 Jane Lew, WV 26378						
TELEPHONE NUMBER: 724.627.1300						
CONTRACTOR NAME:						
ADDRESS:						
TELEPHONE #						
WV CONTRACTOR LICENCE #						
WW CONTINCTOR EIGENCE II						
ENGINEER'S NAME: CESO, Inc.						
ADDRESS: 2800 Corporate Exchange Drive, Suite 160, Columbus, OH 43231						
TELEHONE NUMBER: 614.794.7080						
PROJECT LOCATION:						
NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Attachment A.						
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Attachment A.						
DISTRICT: Please see Attachment A.						
LAND BOOK DESCRIPTION: Please see Attachment A.						
DEED BOOK REFERENCE: Please see Attachment A.						

TAX MAP REFERENCE: Please see Attachment A.	
EXISTING BUILDINGS/USES OF PROPERTY: PI	ease see Attachment A.
NAME OF AT LEAST ONE ADULT RESIDING IF	N EACH RESIDENCE LOCATED UPON THE SUBJECT
PROPERTY Please see Attachment A.	
ADDRESS OF AT LEAST ONE ADULT RESIDING	G IN EACH RESIDENCE LOCATED UPON THE SUBJECT
PROPERTY Please see Attachment A.	

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

Cone Gathering, LLC (Cone), is proposing to construct new temporary aboveground waterline and associated construction access roads within a portion of southwestern Doddridge County, West Virginia to support non-conventional gas exploration. The temporary withdrawal point will be located southwest of the intersection of State Route 18 and County Route 40, near Blandville, West Virginia. The approximate coordinates of the withdrawal point are 39.257269N latitude, -80.713153 W longitude (NAD83). From the withdrawal point, the waterline will transport water southeast to the OX11 well pad (39.170959 N Latitude, 80.762926 W Longitude (NAD83)).

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A.	STRUCTURAL D	EVELOPM	ENT					
AC	ΓΙVΙΤΥ			STRU	CTURAL T	YPE		
[]	New Structi	ure			[]	Residential (1 – 4 Family)		
[]	Addition				[]	Residential (more than 4 Fami		
[]	-				[]	Non-residential (floodproofing		
[]	Relocation				[]	Combined Use	e (res. & com.)	
[]	Demolition				[]	Replacement		
[]	Manufactu	red/Mob	l Home					
В.	OTHER DEVELO	OPLMENT	ACTIVITIES:					
[]	Fill	[]	Mining	[]	Drilling	s 🗸	Pipelining	
[]	Grading							
[]	Excavation	(except fo	r STRUCTURAL	_ DEVELOP	MENT che	ecked above)		
[]						el modification)		
	-	-	nts (including		rk)			
[]	•		ge Construction					
[]	Subdivision (including new expansion)							
[]	Individual Water or Sewer System							
[]	Other (plea	se specify)					
								

C. STANDARD SITE PLAN OR SKETCH

- 1. SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED (ENGINEERING PLANS MUST BE SIGNED AND SEALED).
- 2. IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED: SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.

3.	SIGN AND DATE THE SKETCH.	Please see Attachment B and Attachment C.
	AL TOTAL CONSTRUCTION COSTS ECT WITHIN THE FLOODPLAIN \$2	S OF THE COMPLETE DEVELOPMENT/ PROPOSED CONSTRUCTION 254,500.00
OF T AND AFFE	HE SURFACE TRACT (UP & DOWN ALL OTHER SURFACE OWNERS UF	DWNERS OF SURFACE TRACTS ADJACENT TO THE AREA I STREAM) UPON WHICH THE PROPOSED ACTIVITY WILL OCCUR P & DOWN STREAM) WHO OWN PROPERTY THAT MAY BE ISTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN
ADDF	RESS: Please see Attachment D.	ADDRESS:
	E:RESS:	
ANY AND AFFE NAM	ADJACENT PROPERTY AT THE TIM ADDRESS OF AT LEAST ONE ADUL CTED BY FLOODING AS IS DEMON E: Refer to Attachment D.	EAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON IE THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME LT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE ISTRATED BY A FLOODPLAIN STUDY OR SURVEY. NAME: ADDRESS:
٤.	CONFIRMATION FORM	
APPL (A) PERN (B) (C) (D) (E) ADM	OF RECEIPT OF INVOICE BY THE INTERPRETATION PROCESS GREATER THAIN PERSONAL SERVICE OF PROCEMITTED BY LAW FOR SUCH SERVICE BY CERTIFIED MAIL REPUBLICATION. COURT REPORTING SERVICES CONSULTANTS AND/OR HEAR INISTRATOR/MANAGER OR FLOCEMONY REGARDING THE EFFICAC	
NAM	E (PRINT): Natalie Hooton for CESO, Inc	
	ATURE:	

After completing SECTION 2, APPLICANT should submit form and fees to Clerk of Doddridge County Court or his/her representative for review.

SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)

THE PROPOSED DEVELOPMENT: THE PROPOSED DEVELOPMENT IS LOCATED ON: FIRM Panel: Dated:-----Is NOT located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and NO FLOOPLAIN DEVELOPMENT PERMIT IS REQUIRED). Is located in Special Flood Hazard Area. FIRM zone designation_____ 100-Year flood elevation is ______NGVD . Stream name _____ Profile # _____ []Unavailable The proposed development is located in a floodway. Π See section 4 for additional instructions. DATE SIGNED SECTION 4: ADDITIONAL INFORMATION REQUIRED FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (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 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 proofing 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 10 lots or 2 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.						
[]	op of new fill elevationFt. NGVD. or floodproofing structures applicant must attach certification from registered engineer or						
archite							
	ertification from a registered engineer that the proposed activity in a regulatory floodway we t in any increase in the height of the 100-year flood. A copy of all data and calculations ong this finding must also be submitted.	/ill					
	[] Manufactured homes located in a Flood Hazard Area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).						
[]	Other:						
	5: PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or epresentative)						
Flood	I have determined that the proposed activity (type is or is not) in conformance with provisions of the Floodplain Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The permit is issued subject to the conditions attached to and made part of this permit.						
SIGNE	DATE						
	odplain Administrator/Manager found that the above was not in conformance with the s of the Doddridge County Floodplain Ordinance and/or denied that application, the applicaeal.	nt					
APPEA	Appealed to the County Commission of Doddridge County? [] Yes {} No Hearing Date: County Commission Decision - Approved [] Yes [] No						
COND							
COND	DNS:	_					
SECTION ISSUED	6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance i	s					
	wing information must be provided for project structures. This section must be completed be discovered by professional engineer or a licensed land surveyor (or attach a certification to this application	-					
COMP	TE 1 OR 2 BELOW:						
1	Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space isFT. NGVD.	5					
2	Actual (As Built) elevation of floodproofing isFT. NGVD.						

Note: Any work performed prior to submittal of the above information is at risk of the applicant. SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).

The Floodplain Administrator/Manager or his/her representative will complete this section as applicable based on inspection of the project to ensure compliance with the Doddridge County Floodplain Ordinance.

INSPECTIONS: DATE:______ BY:_____ **DEFICIENCIES? Y/N** COMMENTS_____ SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain Administrator/Manager or his/her representative). Certificate of Compliance issued: DATE:______BY:______ CERTIFICATE OF COMPLIANCE FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (OWNER MUST RETAIN) PERMIT NUMBER:_____ PERMIT DATE:_____ PURPOSE -CONSTRUCTION LOCATION: OWNER'S ADDRESS:

THE FOLLOWING MUST BE COMPLETED BY TH AGENT.	E FLOODPLAIN ADMINISTRATOR/MANAGER OR HIS/HER
COMPLIANCE IS HEREBY CERTIFIED WI ADOPTED BY THE COUNTY COMMISSION OF D	ITH THE REQUIREMENT OF THE FLOODPLAIN ORDINANCE PODDRIDGE COUNTY ON MAY 21, 2013.
SIGNED	DATE



RED-ORANGE WATERLINE DODDRIDGE FLOODPLAIN PERMIT APPLICATION: STREAM CROSSING TABLE

Table 1. Stream Activity by Waterline Project

Stream Field ID	Stream Category	Stream Name or Tributary Of	Project Activity	Type of Crossing	Coordinates (NAD83) (dd)	Width (feet)	
G1	Perennial	South Fork Hughes River	Intake for Waterline	No crossing- Temporary Floating Intake Structure	39.187261, -80.790683	7.0	No crossing
G4	Ephemeral	UNT South Fork Hughes River	Aboveground Waterline	Cribbed and Timber Matted	39.187720, - 80.782671	0.33	32



Attachment A- Project Location-Surface Owner Information

TAX ID: 09-07-0010-0002-0000-6001

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: Route 23, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

DISTRICT: Southwest

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 230/ Page 307

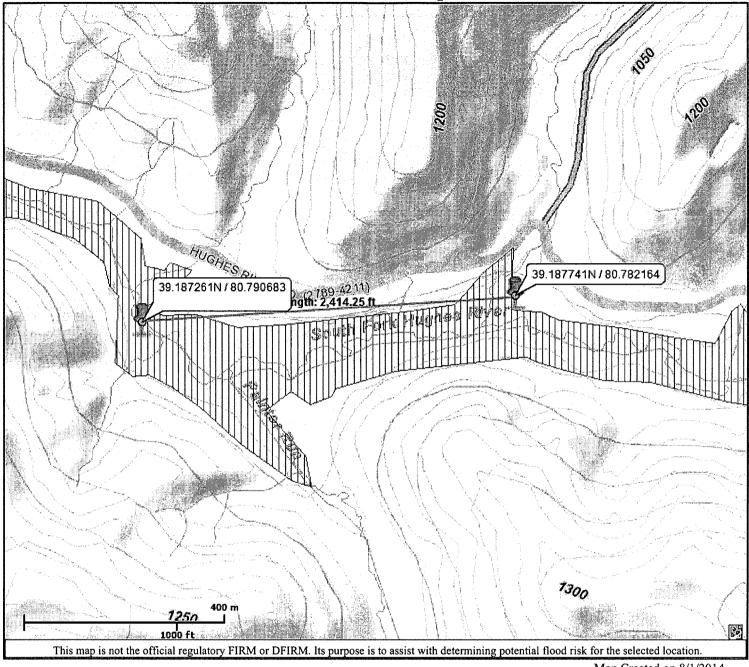
TAX MAP REFERENCE: MAP 10/ Parcel 2

EXISTING BUILDINGS/USES OF PROPERTY: There are currently several horizontal 6A wells with access roads located on the property. One residential (rented) structure is present on the property. The remaining portions of the parcel are forested and undeveloped.

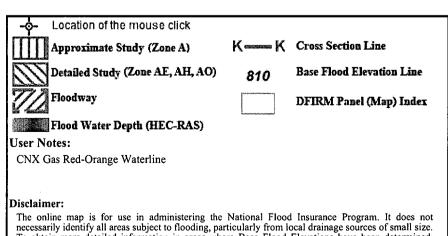
NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

WV Flood Map



Map Created on 8/1/2014



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:

Advisory Flood Height: N/A

Water Depth: N/A
Elevation: N/A
Location (long, lat):
Location (UTM 17N):
FEMA Issued Flood Map:

Contacts:

CRS Information:

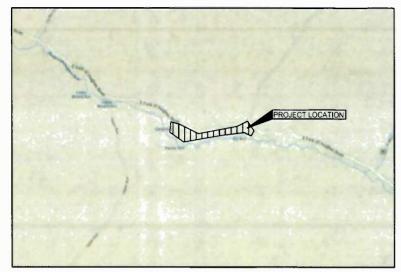
Flood Profile: No Profile

HEC-RAS Model: No Model

Parcel Number:



Location Map - Oxford, WV Quad Doddridge County. West Virginia



VICINITY MAP

DRAWING INDEX DESCRIPTION SHEET NUMBER COVER SHEET SWPPP NOTES SWPPP DETAILS 4-6 PIPELINE PLAN E&S TABLES AND QUANTITIES

VERTICAL DATUM NOTE

VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1983

PLAN REPRODUCTION WARNING

THE PLANS HAVE BEEN CREATED ON ANSI D (22"x 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

"WARNING" INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

RED-ORANGE WATER LINE

DODDRIDGE COUNTY, WEST VIRGINIA

APPROX. START POINT: STA 0+00 (NAD 83) LAT: 39.187260 N / LONG: 80.790634 W

APPROX. END POINT: STA 25+69 (NAD 83) LAT: 39.187763 N / LONG: 80.781854 W (UTM) (ZONE 17) NORTHING: 253094.59 / EASTING: 1605176.28



PROJECT AREA MAP





- NOTES:

 1. THIS PLAN DOES NOT PURPORT TO BE A COMPREHENSIVE REPRESENTATION OF EXISTING UTILITIES IN THE PROJECT AREA. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ON SURFACE FEATURES OBSERVED IN THE FIELD. CESO, INC. MAKES NO GUARANTEE TO THEIR ACCURACY ANDIOR COMPLETENESS. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE. THE CONTRACTOR SHALL NOTHY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV81) AT 1-800-245-4843. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NON-MEMBERS OF WW811.
- QUANTITIES LISTED ARE BASED ON SLOPE LENGTH. CONTRACTOR SHALL VERIFY ALL QUANTITIES.

UTILITY OWNERS

- NOTES:

 1. CONTRACTOR SHALL CALL THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (MV811) AT 1-800-245-4948 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
- UTILITIES SHOWN ARE TAKEN FROM THE SURVEY AND RECORDS OF RESPECTIVE UTILITY COMPANIES AND DO NOT NECESSARY REPRESENT ALL UNDERGROUND UTILITIES ADJACENT TO OR UPON SITE SHOWN ON PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM

EQT P.O. BOX 1550 ROUTE 19 SOUTH AT OAKMOUND RD CLARKSBURG, WV 26301 304-624-9527

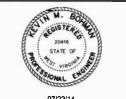
501 56TH STREET SOUTH EAST CHARLESTON, WV 25304 304-925-6100



APPROVED BY CONSOL:

REPRESENTATIVE

DATE



DATE

	SUMMARY OF MATERIALS		SUMMARY OF MATERIALS REFERENCE DRAWINGS					
MRKR#	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION	
1	2577 LF	16" HDPE WATERLINE			\top			
2	7 EA	Elbow, 45° Segmentable Fitting						
					1			
					1			
		===						
15					\neg			
					$\overline{}$			



RED-ORANGE WATER LINE

COVER SHEET

STATION(S):

	CONSOL	ENERGY
--	--------	--------

200 EVERGREENE	DRIVE
WAYNESSLIDG D	15270
WAYNESBURG PA	15370

	DATE:	07/22/14
	JOB NO.:	750594
7	DESIGN:	ВЕМ
	DRAWN:	BEM
	CHECKED:	ВЈМ
	SHEET NO.	
	1 (of 8

CONTRACTOR NOTES

- THIS PLAN DOES NOT PURPORT TO BE A COMPREHENSIVE REPRESENTATION OF EXISTING UTILITIES IN THE PROJECT AREA, UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY BASED ON SURFACE FEATURES OBSERVED IN THE FIELD. CESO, INC. MAKES NO GUARANTEE TO THEIR ACCURACY AND/OR COMPLETENESS, FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV811) AT 1-800-245-4848. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NON-MEMBERS OF WV811.
- ALL CONTRACTORS/SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATIONS. SAID EXISTING IMPROVEMENTS SHALL INCLUDE BUT NOT BE LIMITED TO BERMS DITCHES FENCES AND PLANTS ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTORS TO EXISTING OR BETTER CONDITIONS, AT THEIR EXPENSE, AND SHALL BE APPROVED BY
- ALL CONSTRUCTION, TESTING AND MATERIALS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE "PERMITTING ENTITY" AND LOCAL, STATE AND FEDERAL REGULATIONS
- ALL NECESSARY TESTING SHALL BE PERFORMED BY AN APPROVED LABORATORY AT THE EXPENSE OF
- PRIOR TO CONSTRUCTION, ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND ALL OTHER NECESSARY DETAILS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL STANDARDS OR SPECIFICATIONS PERTAININ THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS
- THE CONTRACTOR SHALL HAVE IN THEIR POSSESSION, PRIOR TO CONSTRUCTION, ALL NECESS PERMITS, LICENSES, BONDS, INSURANCE, ETC. CONTRACTORS SHALL EACH HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES.
- IN THE EVENT THAT AN ITEM IS NOT SPECIFICALLY COVERED IN THE PERTINENT AGENCIES CONSTRUCTION STANDARDS AND SPECIFICATIONS AND DETAILS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND PROJECT ENGINEER. THE OWNER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS AND PROCEDURES.
- THE CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA AS SHOWN ON THE PLANS. NO ENCROACHMENTS OUTSIDE OF THE SPECIFIED AREAS SHALL BE ALLOWED. ANY DAMAGE RESULTING THERE FROM SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES OR LINE LOCATION SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED
- TRENCH BEDDING SHALL BE AS PER WYDOH CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST
- TOP OF NATURAL GAS PIPELINE SHALL BE A MINIMUM OF 3'-0" BELOW THE FINISHED GROUND ELEVATION TOP OF NATURAL GAS PIPELINE SHALL BE A MINIMUM OF 3-0 BELLOW THE FINISHED GROUND LESS IN ALL VEGETATED AREAS, EXCEPT IN AGRICULTURAL FIELDS, WHICH THE DEPTH SHALL BE 4-07 MINIMUM BURY UNDER ROADWAYS AND OTHER PAVED AREAS SHALL BE PER THE PERMITTING
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH STANDARD TRENCH SAFETY GUIDELINES AND THE U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
- THESE PLANS DO NOT CONSTITUTE A BOUNDARY SURVEY, BOUNDARY LINES AS SHOWN HEREON ARE BASED ON TAX MAPS AS PROVIDED BY OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE PROJECT MANAGER FOR ANY DEVIATION
- EXISTING EASEMENTS AND/OR RIGHT-OF-WAYS WERE NOT RESEARCHED AND SURVEYED DURING THIS PROJECT, OTHER THAN THOSE SHOWN WITHIN THE PLANS.
- FENCE LINES ENCOUNTERED DURING CONSTRUCTION SHOULD BE RELOCATED AND REPLACED PER LANDOWNER AND OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE GOVERNING AUTHORITIES PRIOR TO THE CONTRACT OF SHALL BE RESPONSIBLE FOR NOTIFYING THE GOVERNING AUTHORITIES FROM ALL ROAD CROSSINGS, MAINTENANCE OF TRAFFIC IS TO BE IMPLEMENTED AS NECESSARY TO ENS THAT THE ROAD HAS CONTINUAL ACCESS. MAINTENANCE OF TRAFFIC SHALL BE PER THE LATEST EDITION OF THE WYDOH TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS MANUAL.

GENERAL CONSTRUCTION SEQUENCE

THE PIPELINE PROJECT CONSISTS OF ONE GENERAL CONSTRUCTION PHASE. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THE WEST VIRGINIA DEPARTMENT OF NATURAL RESOURCES (WVDNR) AND WEST VIRGINIA DEPARTMENT OF IMENTAL PROTECTION (WVDEP) EROSION AND SEDIMENT CONTROL FIELD MANUA

THE CONSTRUCTION SEQUENCE IS INTENDED AS A GENERAL COURSE OF ACTION TO COMPLY WITH WYDNR AND WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MEASURES. NECESSARY TO MEET APPLICABLE RULES AND REGULATIONS ARE INSTALLED. MEASURES AS SHOWN ON THESE PLANS MAY BE ALTERED TO BETTER MEET SITE SPECIFIC CONDITIONS AT THE DISCRETION OF THE

BMP DETAILS AND CONSTRUCTION SPECIFICATIONS CAN BE FOUND ON THE STANDARD DETAIL SHEETS.

- A COPY OF THE FOR CONSTRUCTION PLANS MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
- AT LEAST THREE DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITY, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL NOTIFY THE WEST VIRGINIA ONE CALL SYSTEM BEFORE STARTING
- PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, CONTRACTOR SHALL CLEARLY DELINEATE SENSITIVE AREAS. RIPARIAN FOREST BUFFER BOUNDARIES, THE LIMITS OF CLEARING, AND TREES THAT ARE TO BE CONSERVED WITHIN THE PROJECT SITE, AND INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY PURPOSE. APPROPRIATE BMP'S SHOULD BE INSTALLED AND
- CONSTRUCTION FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS, CONSTRUCTION FENCE SHALL BE CHECKED REGULARLY FOR WEATHER RELATED OR OTHER DAMAGE. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
- INSTALLATION OF STONE CONSTRUCTION ENTRANCES AT ALL ACCESS LOCATIONS SHALL BE THE FIRST STEP OF CONSTRUCTION AND SHALL BE FOLLOWED BY INSTALLATION OF BMP's FOR ALL AREAS
- INSTALL ROCK CHECK DAMS AT LOCATIONS SHOWN ON THE PLANS. INSPECT EACH CHECK DAM AT A MINIMUM ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAT 0.5 INCHES OF RAIN PER 24 HOUR PERIODS, CHECK TO SEE IF WATER HAS FLOWED AROUND THE EDGE OF INCRES OF RAIN FER 24 HOUR FERIODS. CHEEK TO SEE IF WATER HAS FURBLISHED AND THE STRUCTURE. REPLACE STONE AND REPAIR DAM AS NECESSARY TO MAINTAIN THE COR HEIGHT AND CONFIGURATION. SEDIMENT SHALL BE REMOVED FROM BEHIND THE CHECK DA HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE DAM.
- INSTALL PERIMETER BMP's (SILT FENCING OR FILTER SOCKS) WHERE NECESSARY ALONG CLEARING AND
- BEGIN LAND CLEARING AND GRADING (IF NECESSARY) ONLY AFTER ALL DOWNSLOPE BMP'S HAVE BEEN INSTALLED. IF POSSIBLE, MINIMIZE CLEARING AND GRADING AT STREAM CROSSINGS UNTIL THE TIME OF
- APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS REACHED FINAL GRADE, HAS BEEN DELAYED OR OTHERWISE TEMPORARILY
- INSTALL TEMPORARY WATERBARS AT LOCATIONS SHOWN ON THE DRAWINGS, WATERBARS WILL BE INSTALLED WITH FILTER SOCKS AT THE DISCHARGE TO HELP CONTROL THE VOLUME AND SPEED OF
- INSTALL BMP's FOR TEMPORARY ROAD CROSSINGS OF WETLANDS AND WATER BODIES WITHIN THE PIPELINE ROW AS NECESSARY, FOLLOW STREAM AND WETLAND CROSSING DETAILS FOR ACCESS ROAD CROSSINGS OF THESE FEATURES, FILTER SOCKS SHALL BE USED AT ALL STREAM CROSSINGS. SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL NFORMATION ON WATER BODY AND WETLAND CROSSINGS.
- CONSTRUCTION OF UTILITIES (INSTALL NATURAL GAS PIPELINE). WHEN TRENCH EXCAVATION TAKES PLACE IN AN AGRICULTURAL, WETLAND, OR RESIDENTIAL AREA, THEN SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED, PLACE TRENCH PLUGS AT THE REQUIRED SPACING DURING UTILITY INSTALLATION. FOLLOW STREAM AND WETLAND CROSSING DETAILS LOCATED ON THE EROSION AND SEDIMENT CONTROL DRAWINGS FOR LITH ITY CROSSINGS OF THESE FEATURES. SEE STREAM CROSSING SEDIMENT CONTROL DRAWINGS FOR VILLIT VILXISINGS OF ITESE FEATURES. SEE STRAWS.

 PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION ON WATER BODY AND WETLAND CROSSING. DURING CONSTRUCTION, INSTALL AND MAINTAIN ANY ADDITIONAL EROSION AND SEDIMENT CONTROL BMP's AND IMPLEMENT STRUCTURAL POST CONSTRUCTION STORMWATER BMP's (PERMANENT WATERBARS) THAT MAY BE REQUIRED. SEE UTILITY LINE INSTALLATION REQUIREMENTS NOTES FOR LIMITS OF WORK
- ANY WATER ENCOUNTERED WITHIN THE EXCAVATION AREAS DURING CONSTRUCTION SHALL BE REMOVED BY USING PUMPS, HOSES, AND PUMPED WATER FILTER BAGS WHICH SHALL BE DISCHARGED INTO UNDISTURBED WELL-VEGETATED UPLAND AREAS.
- BACKFILL AREAS EXCAVATED FOR THE INSTALLATION OF UTILITIES WITH SUITABLE EXCAVATED MATERIAL. IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL SHALL BE REPLACED FIRST, FOLLOWED BY THE TOPSOIL BEING SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. FINAL GRADES SHALL BE THE SAME AS PRE-CONSTRUCTION CONTOURS.
- AFTER CONSTRUCTION IS COMPLETE, FINAL SEEDING AND MULCHING OF ALL DISTURBED AREAS NOT YET STABILIZED SHALL BE COMPLETED, INSTALL EROSION CONTROL BLANKETING ON SLOPES WHICH ARE 3:1 OR STEEPER. STABILIZE AND SEED ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS.
- REMOVAL OF ALL TEMPORARY BMP's CAN BE PERFORMED UPON ACHIEVEMENT OF A UNIFORM 70 PERCENT PERENNIAL VEGETATIVE COVER WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION FOR ALL AREAS WHICH WOULD CONTRIBUTE RUNOFF TO THE BMPs. STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE BMPs.

WETLAND CROSSING SEQUENCE OF CONSTRUCTION

- INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS PRIOR TO EARTH DISTURBANCE.
- SEDIMENT BARRIERS SHALL BE INSTALLED AT THE EDGE OF THE RIGHT-OF-WAY AND AROUND TOPSOIL
- 3. GEOTEXTILE SHALL BE PLACED UNDER SUBSOIL AND TOPSOIL PILES.
- WORKING SIDE OF TRENCH WILL BE STABILIZED WITH PRE-FABRICATED MATS, AS NEEDED, TO PROVIDE A FIRM SURFACE FOR CONSTRUCTION EQUIPMENT, FOR HEAVY SATURATED AREAS, GEOTEXTILE SHALL BE PLACED UNDER THE MATS TO PREVENT MOVEMENT OR PUMPING OF THE SOIL THROUGH THE MATS.
- IN WETLAND AREAS WITHOUT STANDING WATER OR SATURATED SOILS. TOPSOIL (TOP 12 INCHES) AND SUBSOIL SHALL BE SEGREGATED AND STOCKPILED DURING TRENCHING
- UPON COMPLETION OF PIPE INSTALLATION THROUGH WETLAND, TRENCH PLUG(S) SHALL BE INSTALLED AS REQUIRED TO MAINTAIN ORIGINAL WETLAND HYDROLOGY
- THE SEGREGATED TOPSOIL SHALL BE RESTORED TO IT'S ORIGINAL CONDITION DURING BACKFILLING THE ORIGINAL TOPSOIL SHALL BE KEPT IN A CONDITION THAT WILL ALLOW IT TO MAINTAIN SUFFICIENT SEED AND ROOT MATERIAL AND TO PROVIDE VEGETATIVE COVER.
- ALL SEEDING SHOULD COMPLY WITH EITHER OPTION "A" OR OPTION "B" SEED MIXES LISTED UNDER THE SPECIAL NOTES SECTION FOR STREAMWETLAND CROSSINGS CONTAINED IN THESE DRAWINGS.
 SEEDING ONLY, WITH NO FERTILIZING, SHALL BE DONE IN CRITICAL AREAS (i.e. WITHIN 50' OF AN HQ OR EV STREAM CHANNEL OR WITHIN WETLANDS). DO NOT APPLY MULCH WITHIN WETLANDS.

"OPEN CUT" STREAM CROSSING (TEMPORARY) CONSTRUCTION SEQUENCE - PIPE INSTALLATION

- ALL IN-STREAM DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEGUENCE. EACH STAGE SHOULD BE COMPLETED IN COMPLIANCE WITH WIDEPS OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL BEFORE MAY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.
- ALL WORK SHALL BE PERFORMED IN LOW FLOW CONDITIONS AND EACH CROSSING SHALL BE COMPLETED WITHIN 72 HOURS OF START OF WORK.
- POINTS OF INGRESS AND EGRESS TO STREAMS FOR EQUIPMENT SHALL BE WITHIN THE WORK SITE
- SURFACE DISTURBANCE WILL NOT EXTEND BEYOND THE RIGHT-OF-WAY LIMITS. STREAM CROSSINGS WILL BE CONDUCTED AS CLOSE TO A RIGHT ANGLE TO THE WATERCOURSE AS PRACTICAL AND THE AREA OF DISTURBANCE WILL BE LIMITED TO REDUCE IN STREAM ACTIVITY.
- INSTALL TEMPORARY COFFER DAM AT UPSTREAM EDGE OF PROPOSED WORK AREA. DEWATER THE
- OPEN CUT CHANNEL TO A WIDTH AND DEPTH THAT IS NO MORE THAN WHAT IS NECESSARY FOR INSTALLATION OF PIPE. DURING EXCAVATION, SEPARATE THE INITIAL ONE FOOT OF STREAM SUBSTRATE FROM THE SUBSURFACE MATERIAL INTO TWO SEPARATE PILES.
- INSTALL PIPE AS SHOWN ON PLANS.
- BACKFILL TRENCH BY FIRST ADDING SUBSURFACE MATERIAL, THEN THE STREAM SUBSTRATE MATERIAL, ENSURING THAT ORIGINAL GRADE, DIMENSIONS, AND CONTOURS OF THE CHANNEL ARE RE-ESTABLISHED
- REMOVE COFFERDAM AND STABILIZE ANY REMAINING DISTURBED AREAS

STREAM CROSSING (TEMPORARY) CONSTRUCTION SEQUENCE - ACCESS ROADS

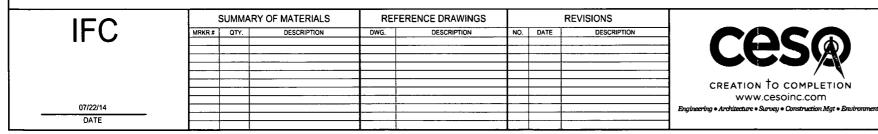
- ALL IN STREAM DISTURBANCE ACTIVITY SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH WVDEP, THE WEST VIRGINIA OFFICE OF LAND AND STREAMS (WVOLS), THE WDNR, AND THE U.S. ARMY CORPS OF ENGINEERS
- STREAM CROSSING SHALL MEET THE REQUIREMENTS OF THE WYDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL CHAPTER
- SEE CULVERT STREAM CROSSING FROM THE WYDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL.
- ALL WORK SHALL BE PERFORMED IN LOW FLOW CONDITIONS AND EACH CROSSING SHALL BE COMPLETED WITHIN 72 HOURS OF START OF WORK.
- POINTS OF INGRESS AND EGRESS TO STREAMS FOR EQUIPMENT SHALL 8E WITHIN THE WORK SITE
- SURFACE DISTURBANCE WILL NOT EXTEND BEYOND THE RIGHT-OF-WAY LIMITS, STREAM CROSSINGS WILL BE CONDUCTED AS CLOSE TO A RIGHT ANGLE TO THE WATERCOURSE AS PRACTICAL AND THE AREA OF DISTURBANCE WILL BE LIMITED TO REDUCE IN STREAM ACTIVITY.
- INSTALL TEMPORARY COFFER DAM AT UPSTREAM EDGE OF PROPOSED WORK AREA, DEWATER THE
- 8. INSTALL ACCESS ROAD TEMPORARY CROSSING AS SHOWN ON PLANS.
- REMOVE COFFERDAM AND STABILIZE ANY REMAINING DISTURBED AREAS.

UTILITY LINE INSTALLATION REQUIREMENTS

- THE CONTRACTOR SHALL LIMIT TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILL THAT CAN BE INSTALLED IN ONE DAY
- THE CONTRACTOR SHALL GRADE TO FINAL CONTOURS, INSTALL REQUIRED EROSION CONTROL MEASURES, AND SEED AND MULCH ALL DISTURBED AREAS AT THE END OF EACH WEEK.
- 3. DEWATER ALL TRENCHES PRIOR TO PIPE INSTALLATION AND BACKFILLING. ALL WATER TO BE PUMPED
- 4. ALL TRENCH EXCAVATION MATERIAL TO BE PLACED ON DOWNHILL SIDE OF TRENCH.
- IN THE EVENT THAT THESE REQUIREMENTS CAN'T BE MET DUE TO FIELD CONDITION, THE CONTRACTOR SHALL COORDINATE ALTERNATE REQUIREMENTS WITH OWNER'S REPRESENTATIVE.

UTILITY RIGHT-OF-WAY RESTRICTIONS

- CONSTRUCTION VEHICLES, VEHICLES WITH BOOMS AND EQUIPMENT OPERATING WITHIN OR ADJACENT TO A UTILITY RIGHT-OF-WAY MUST BE PROPERLY GROUNDED.
- 2. CHANGES TO GRADE ELEVATION WITHIN THE UTILITY RIGHT-OF-WAY ARE NOT PERMITTED.
- GROUND DISTURBANCE OR EXCAVATIONS ARE NOT PERMITTED WITHIN 50 FEET OF ANY UTILITY STRUCTURES (POLES, TOWERS, GUYS, ETC.)
- EXPLOSIVES OR COMBUSTIBLE LIQUIDS, SUBSTANCES, OR MATERIALS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY. PROHIBITED MATERIALS INCLUDE BUT ARE NOT LIMITED TO FUEL, WOOD CHIPS, MULCH,



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RED-ORANGE WATER LINE

SWPPP NOTES

STATION(S)

200 EVERGREENE DRIVE WAYNESBURG, PA 15370

CONSOL ENERGY

DATE: 07/22/14 JOB NO.: 750594 DESIGN: BEM DRAWN: BEM CHECKED: BJM SHEET NO of

EROSION AND SEDIMENT CONTROL NARRATIVE:

PLAN DESIGNER: CESO, INC.

2800 CORPORATE EXCHANGE DRIVE, SUITE 160 ONE ENERGY DRIVE

CONTACT: BENJAMIN J. MILLER, PE

CONTACT: ADAM WHITE

P: 614-794-7080 P: 240-506-7299 E: ADAMWHITE@CONSOLENERGY.COM E: MILLER@CESOINC.COM

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF CONSTRUCTING TWIN WATER LINES IN DODDRIDGE COUNTY, WEST VIRGINIA

2.36 ACRES TOTAL PROJECT AREA 2.36 ACRES PROPOSED IMPERVIOUS AREA 2.36 ACRES DISTURBED

0 CY CUT/0 CY FILL (BALANCED)

EXISTING SITE CONDITIONS: THE TOPOGRAPHY OF THIS SITE CONSISTS OF MILDLY SLOPED OPEN FIELDS. THIS SITE DRAINS TO S FORK HUGHES RIVER

ADJACENT AREAS:

ADJACENT AREAS THAT MAY BE AFFECTED BY SITE DISTURBANCE INCLUDE S FORK HUGHES RIVER RD AND STREAM G1, STREAM G3, STREAM G4, AND WETLAND G2.

THE DRAINAGE PATH LEADING FROM THE SITE TO THE RECEIVING BODY OF WATER CONSISTS OF VEGETATED SWALES, EXISTING EROSIONAL FEATURES, AND TRIBUTARIES OF STREAMS.

CRITICAL AREAS:

PIPELINE: STREAM G1 (S FORK HUGHES RIVER), WETLAND G2, AND STREAM G

REQUIREMENTS FOR WORKING IN OR NEAR CRITICAL AREAS CAN BE FOUND ON SHEETS 2-6.

SOILS

Soll name	Soil Mapping Unit	Erodibility (K Factor, Whole Soil)	Settleability (Unavailable)	Permeability	Depth (çm)	Texture	Soil Structure (Unavailable)
MONONGAHELA SILT LOAM, 8 TO 15 PERCENT SLOPES	MoC	0.43	7	Moderately well drained	56	Silt loam	•
SENSABAUGH SILT LOAM	Se	0.37	-	Well drained	>200	Silt loam	,
SENSABAUGH SILT LOAM, 3 TO 8 PERCENT SLOPES, RARELY FLOODED	SeB	0.37	-	Well drained	>200	Silt loam	-
VANDAUA SILT LOAM, 15 TO 25 PERCENT SLOPES	VaD	0.32	₹	Well drained	>200	Silt loam	

*Data obtained from NRCS-USDA Web Soil Survey

EROSION PROBLEM AREAS: NO EROSIONAL PROBLEM AREAS ARE ANTICIPATED AS THE TERRAIN IS FAIRLY FLAT.

POLLUTION PREVENTION

CONSTRUCTION STORMWATER THE SEDIMENT CONTROL PLAN SHOWS ALL CLEARING LIMITS AND PROPOSED SEDIMENT CONTROLS. THE GENERAL NOTES ADDRESS THE STABILIZATION OF SOILS, SLOPE PROTECTION, CONTROL OF OTHER POLLUTANTS, DEWATERING CONTROL, MAINTENANCE OF BMPS, MANAGEMENT OF THE PROJECT, AND STABILIZATION. TYPES OF BMPS USED ON THIS PROJECT INCLUDE FILTER SOCKS, SUPER SILT FENCE, AND SILT FENCE, AND TRENCH PLUGS. REFER TO SHEET 7 FOR LOCATIONS.

CONSTRUCTION PHASING AND THE CONSTRUCTION SEQUENCE FOR THIS PROJECT CAN BE FOUND ON SHEET 2 WET SEASON CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING EROSION & SEQUENCE CONTROL INSTALLATION, ACCESS ROAD CONSTRUCTION, TRENCH EXCAVATION, UTILITY PLACEMENT, BACKFILLING, AND OPEN CUTTING OF STREAMS, CONSTRUCTION RESTRAINTS FOR ENVIRONMENTALLY CRITICAL AREAS

ENGINEERING CALCULATIONS: ENGINEERING CALCULATIONS ARE NOT REQUIRED FOR THIS PROJECT.

TEMPORARY	SEEDING	CHART

•		•	PLS
Common Name	Scientific Name	Planting Dates	Lbs/Acre
Annual Ryegrass	Lolium multiflorum	2/16-5/15, 8/1-11/1	40
Field Bromegrass	Bromus ciliatus	3/1-6/15, 8/1-9/15	40
Spring Oats	Avena sativa	3/1-6/15	100
Winter Rye	Secale cereale	8/15-2/28	170
Winter Wheat	Triticum aestivum	8/18-2/28	180
Japanese Millet	Echinochloa crusgalli	5/15-8/15	30
Redtop	Agrostis alba	3/1-6/15	10
Annual Ryegrass and Spring Oats	Lolium multiflorum, Avena sativa	3/1-6/15	30, 70
German, Foxtail Millet	Setaria italica	5/1-8/1	40
Hairy Vetch	Vicia villosa	8/15-4/1	60

- PRIOR TO SEEDING, INSTALL NECESSARY EROSION CONTROL PRACTICES SUCH AS DIKES, WATERWAYS, AND
- SEED SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER, SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5 INCHES DEEP, SMALL SEEDS, SUCH AS ANNUAL RYE. SHALL BE PLANTED NO MORE THAN A QUARTER INCH DEEP, OTHER GRASSES AND LEGUMES SHALL BE PLANTED NO MORE THAN A HALF INCH DEEP.
- TEMPORARY SEEDING CONDUCTED IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED WITH STRAW AND HAY ACCORDING TO THE STANDARD FOR MULCHING, HYDROMULCHES (FIBER MULCH) MAY NOT PROVIDE ADEQUATE TEMPERATURE AND MOISTURE CONTROL.

PERMANENT SEEDING CHART

			PLS
Seed Mix	Common Name	Scientific Name	Lbs/Acre
0	Perennial Ryegrass	Lolium perenne	40
	Birdsfoot Trefoil	Lotus corniculatus	15
	Redtop	Agrostis alba	5
Р	Serecia Lespedeza	Lespedeza cunata	40
	Orchardgrass	Dactylis glomerata	30
	Redtop	Agrostis alba	5

- 1. ALL PERMANENT SEEDING SHALL CONFORM TO WV DEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, SECTION 3.10-1.
- 2. SEED MIX O OR P SHALL BE USED FOR PERMANENT SEEDING

EROSION & SEDIMENT CONTROL PLAN NOTES

- ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED ACCORDING TO: THIS PLAN: WEST ALL ENGISION AND SEDIMENTATION CONTROL STALL BE PERFORMED. OF COUNTROL HIS PARK, WE WITH CONTROL STALL BE PERMITS, AND ALL REQUIRED PERMITS, REPORTS, AND RELATED DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS MUST BECOME FAMILIAR WITH ALL OF THE ABOVE.
- 2. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE EROSION CONTROL PLAN, ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AND GRADE CHANGES TO THE SITE AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL
- 3. CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE MAXIMUM EXTENT POSSIBLE OR AS REQUIRED BY THE GENERAL PERMIT.
- PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING, AND SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS RESTABILIZED.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS
- WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
- TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH WYDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER
- 10 PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH WYDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION, ALL SLOPES 3:1 OR GREATER THAN 3:1 SHALL BE FERTILIZED, SEEDED, AND CURLEX BLANKETS BY AMERICAN EXCELSIOR COMPANY NORTH AMERICAN GREEN INC. OR AN APPROVED EQUAL AS SPECIFIED IN THE PLANS SHALL BE INSTALLED ON THE SLOPES.
- 12. NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF, ALL NON-SEDIMENT POLLUTANTS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL STATE AND FEDERAL GUIDELINES, WASHIOUT OF CEMENT TRUCKS SHOULD ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES. WASH OUT P CEMENT TRUCKS SHOULD OCCUR IN DESIGNATED PIT OR DIKED AREAS, WHERE WASHINGS CAN BE REMOVED AND PROPERLY DISPOSED OFF-SITE WHEN THEY HARDEN. STORAGE TANKS SHOULD ALSO BE LOCATED IN PIT OR DIKED AREAS. IN ADDITION, SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS TO CLEAN AND CONTAIN FUEL AND CHEMICAL SPILLS MUST BE KEPT ON SITE.
- 13. If THE ACTION OF VEHICLES TRAVELING OVER THE STABILIZED CONSTRUCTION EXIT DOES NOT IF THE ACTION OF VEHICLES TRAVELING OVER THE STABLIZED CONTRICTION AND THE ATTOCKNING THE ATTOCKNING THE DISTAND MUD, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD, PROVISIONS MUST BE MADE TO INTERCEPT THE WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS, MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ALL WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- 15. DUST CONTROL USING APPROVED MATERIALS MUST BE PERFORMED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ROADWAYS OR INTO THE STORM SEWERS MUST BE REMOVED IMMEDIATELY.

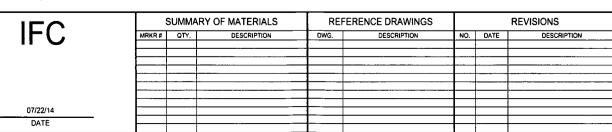
EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

ALL CONTROL MEASURES STATED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON IN ACCORDANCE TO THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO

- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
- SEDIMENT ACCUMULATION MUST BE REMOVED WHEN SEDIMENT HEIGHT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE OR CHECK DAM.
- SEDIMENTATION TRAPS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT MUST BE REMOVED FROM TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 40%.
- MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED SWEEPING/GOOD HOUSEKEEPING. STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES; THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GENERAL CONTRACTOR. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- 6. CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENT FROM THE SITE, INCLUDING SEDIMENT TRAPS AND STORM SEWER PIPES. SEDIMENT DEPOSITION DURING SITE
- 7. ALL ROCK CHANNEL PROTECTION MUST BE PLACED OVER GEOTEXTILE FILTER.
- ROCK CHECK DAMS SHOULD BE ROUTINELY CLEANED ONCE SEDIMENT BEGINS TO APPEAR ON THE
- 9. CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES, ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF, ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL
- AREA SHALL BE DESIGNATED BY CONTRACTOR AND SHOWN ON SWPPP MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, OR CONCRETE, THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA
- EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
- 12. A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE TOTAL ABOVE-GROUND STORAGE OF 1.330 GALLONS OR BELOW-GROUND STORAGE OF 4.200 GALLONS OF FUEL.
- ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN WYDEP APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
- THE CONTRACTOR SHALL CONTACT THE WADER THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN.

EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

ALL EROSION AND SEDIMENT CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD, ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.



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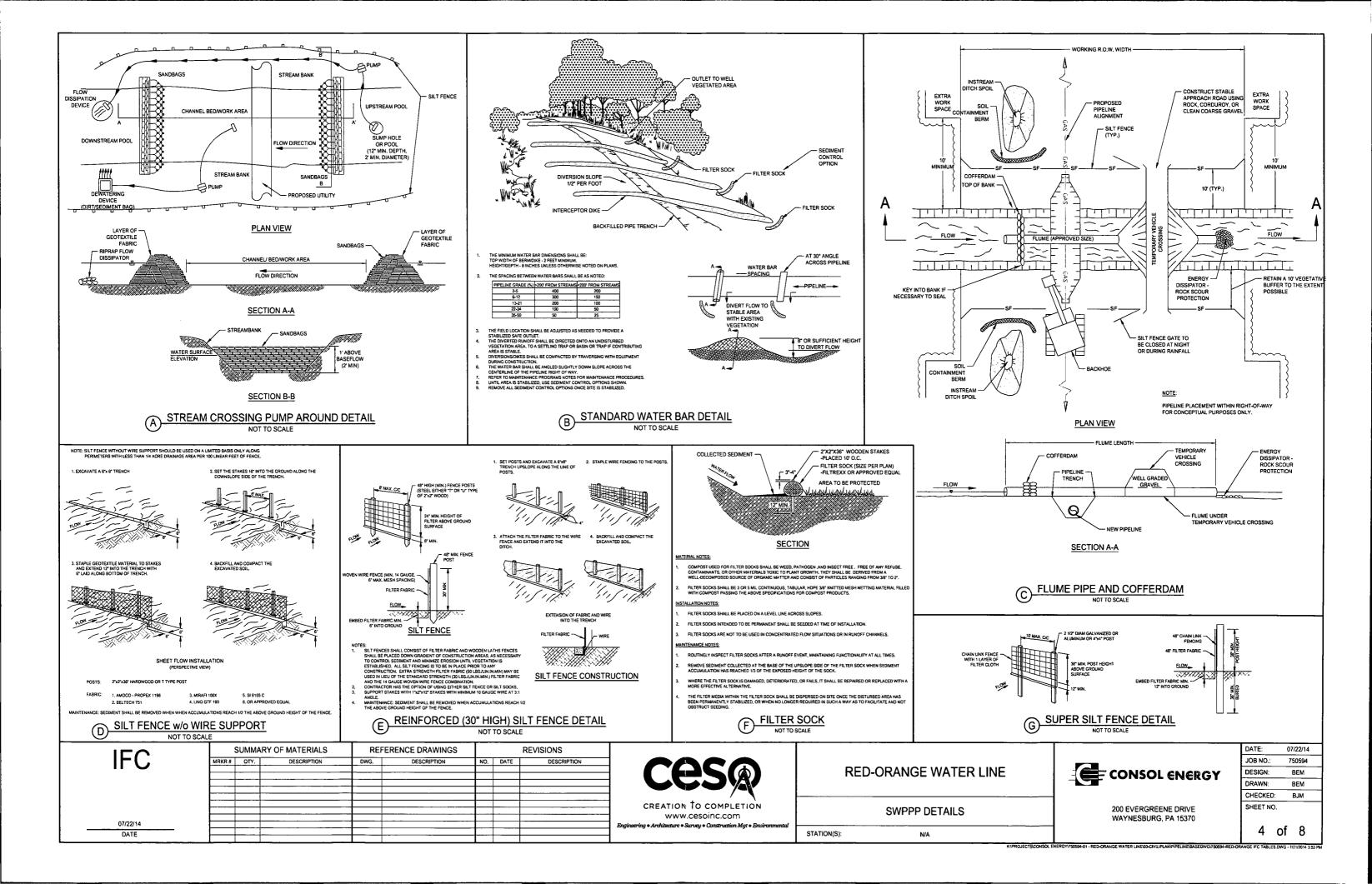
RED-ORANGE WATER LINE

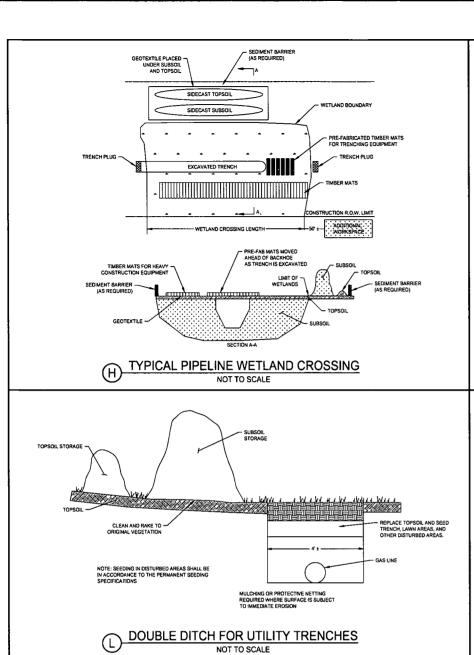
SWPPP NOTES

STATION(S):



200 EVERGREENE DRIVE WAYNESBURG, PA 15370 DATE: 07/22/14 JOB NO.: 750594 DESIGN: ВЕМ DRAWN: ВЕМ CHECKED: BJM SHEET NO. 3 of





FILTER BAG

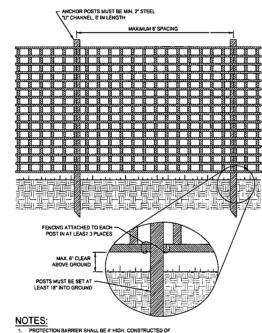
FILTER BAG

WELL VEGETATED AREA

M SEDIMENT FILTER BAG FOR PUMPED WATER DETAIL NOT TO SCALE

PLAN VIEW

ELEVATION VEW



NOTES:

THE CHECK DAM SHALL BE CONSTRUCTED OF 4°C DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIGHT OF THE CHANNEL.

TOWERS THE WIGHT OF THE CHANNEL.

MANUAL MEECHT OF CHECK DAM SHALL BOT EXCEED 3.0 FEET.

THE MOPORAT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF I LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.

THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 8 INCHES.

SPACING OF CHECK DAMS SHALL BE IN AMAINER SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

A PILADA PROM SHALL BE CONSTRUCTED WHERE CHECK DAMS ARE EXPECTED TO BE IN USE FOR AN EXTENDED PERIOD OF TIME, A STONE APPRON SHALL BE CONSTRUCTED MANDDATELY DOWNSTREAM OF THE CHECK DAM TO HEVEN'NE FOR SHALL BE CONSTRUCTED. THE STRUCTURE IT APPROVED SHOULD BE 6

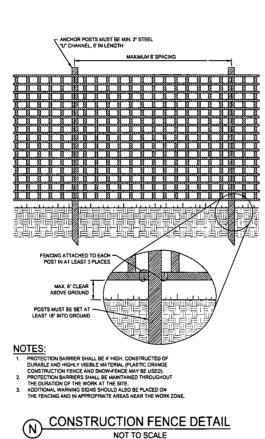
THE CHECK DAM TO HEVEN'NE FOUNS FROM SHALL BE CONSTRUCTED. THE STRUCTURE IT APPROVED DEED BE OF THE CHANNEL BE PERFORMED BY ETHER MAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS THE ENTIRE CHANNEL.

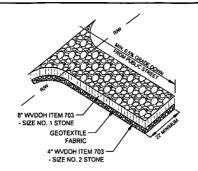
(I) ROCK CHECK DAM DETAIL

CROSS SECTION

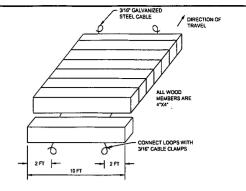
NOTES:

PROFILE





(J) STABILIZED CONSTRUCTION ENTRANCE



TYPICAL TIMBER MAT FOR WETLAND CROSSING NOT TO SCALE

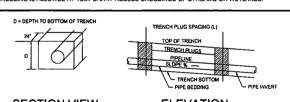
-		
OPT	ION A	

Scientific Name	Common Name	PLS Ounces/Acre
Permanent Grasses/Sedges:		
Calamagrostis canadensis	Bluejoint Grass	1.00
Carex crinita	Fringed Sedge	2.00
Carex lupulina	Common Hop Sedge	4.00
Carex lurida	Bottlebrush Sedge	1,50
Carex frankii	Bristly Cattail Sedge	3.00
Carex squarrosa	Narrow-Leaved Cattail Sedge	1.00
Carex typhinia	Common Cattail Sedge	1.00
Carex vulpinoidea	Brown Fox Sedge	4.00
Elymus virginicus	Virginia Wild Rye	20.00
Glyceria striata	Fowl Manna Grass	2.00
Leersia oryzoides	Rice Cul Grass	2.00
Scirpus atrovirens	Dark Green Rush	2.00
Spartina pectinata	Prairie Cord Grass	1.00
.,,	Tota	
	_	
Temporary Cover:		
Avena sativa	Common Oat	360.00
Lolium multibrum	Annual Rye	100.00
	Tota	al 460.00
Temporary Cover:		
Alisma spp.	Water Plantain Mix	3.00
Angelica altropurpurea	Great Angelica	1.00
Aster puniceus	Bristly Aster	0.75
Aster umbellatus	Flat-Top Aster	0.75
Aster unibelialus Bidens cemua	Nodding Bur Marigold	2.50
Cephalanthus occidentalis	Buttonbush	0.50
Campanula americana	Tall Bellflower	0.25
Helenium autumnale	Sneezeweed	2.00
Heradeum lanatum	Cow Parsnip	0.75
Hibiscus moscheutos	Swamp Rose Mallow	2.00
Lobelia siphilitica	Great Blue Lobelia	1.50
Lycopus americanus	Common Water Horehound	0.25
Mimulus ringens	Monkey Flower	1.25
Penthorum sedoides	Ditch Stonecrap	0.50
	Pinkweed mix	
Polygonum spp.		0.50
Rudbeckia laciniata Verbesina altemifolia	Wild Galden Glow Wingstem	0.75 2.00

Scientific Name	OPTION B Wetland Restoration Mixture Common Name		PLS Ounces/Acre
Avena sativa	Common Oat		480.00
Secale cereale	Cereal Rye		480.00
Panicum virgatum	Switch Grass		32.00
Panicum dandestinum	Deer-tongue Grass		32,00
Elymus riparius	Riverbank Wild Rye		32.00
Poa palustris	March Bluegrass		32.00
Sorghastrum nutans	Indian Grass		16.00
Glyceria striata	Fowl Manna Grass		8.00
Carex crinita	Fringe Sedge		8.00
Carex lurida	Bottlebrush Sedge		8.00
Scirpus atrovirens	Dark Green Rush		8.00
Polygonum pensylvanicum	Pinkweed		8.00
Verbena hastata	Blue Vervain		8.00
Verbesina alternifolia	Wingstem		8.00
Senna hebecarpa	Wild Senna		8.00
STREAM/WETLAND CROSSII	NG NOTES	Total	1168.00

STREAM/WETLAND CROSSING NOTES

- 1. ALL TREES AND WOODY DEBRIS REMOVED FROM STREAM OR WETLAND CROSSINGS MUST BE DISPOSED OF OUTSIDE THE RIPARIAN OR WETLAND CROSSING AREAS
- 2. CONSTRUCTION TIMBER MATTING MUST BE USED WHEN EQUIPMENT IS CROSSING WETLANDS AND/OR SOFT
- 3. THE SEED MIX FOR STREAM/WETLAND CROSSING AREAS (OPTIONS A OR B) SHALL BE USED.
- 4. NO FERTILIZER OR LIME SHALL BE USED IN STREAM/WETLAND CROSSING AREAS.
- 5. NO GRUBBING IS ALLOWED AT TEMPORARY ACCESS CROSSINGS OF STREAMS OR WETLANDS.

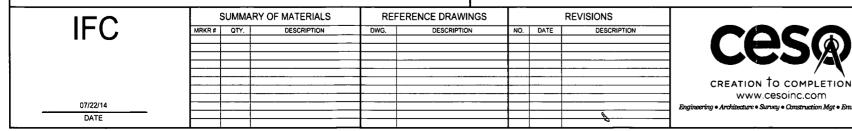


SECTION VIEW

ELEVATION NOT TO SCALE

	REQUIRED SPACING AND MATERIALS FOR TRENCH PLUGS				
TRENCH SLOPE (%)	SPACING (FT)	PLUG MATERIAL			
<5	•				
5-15	500	" EARTH FILLED SACKS			
15-25	300	" EARTH FILLED SACKS			
25-35	200	" EARTH FILLED SACKS			
35-100	100	" EARTH FILLED SACKS			
> 100	50	CEMENT FILLED BAGS (WETTED) OR MORTARED STONE			

TRENCH PLUG DETAIL



FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STREINGTH, DOUBLE STITCHED "Y" TYPE SEAMS, THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

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RED-ORANGE WATER LINE

SWPPP DETAILS

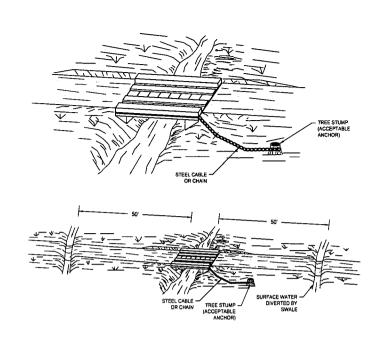
⇔ STATION(S):

NOTE: APPLY AT 32.8 PLS POUNDS PER ACRE.



200 EVERGREENE DRIVE WAYNESBURG, PA 15370

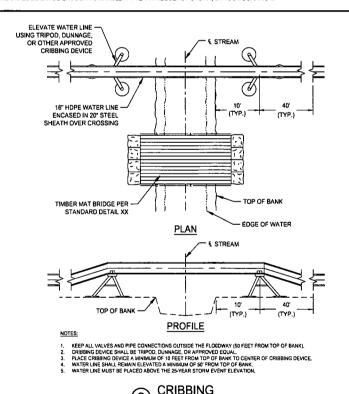
DATE:	07/22/14
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5	of 8

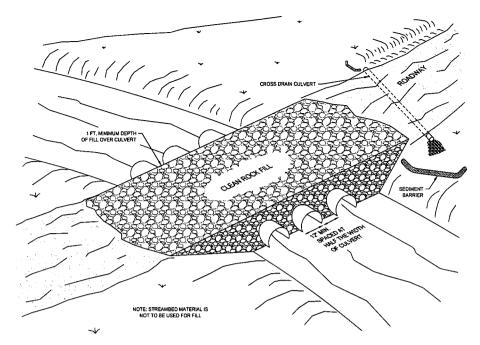


P TEMPORARY ACCESS BRIDGE DETAIL

NOTES:

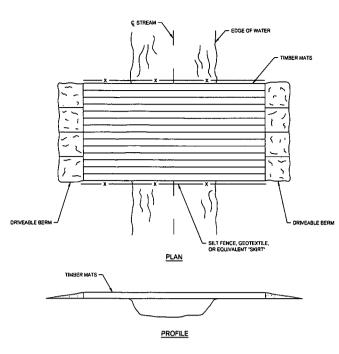
1. THE STRUCTURE SHALL BE LARGE ENOUGH TO HANDLE A 1-YEAR FREQUENCY STORM, 24 HOUR DURATION.





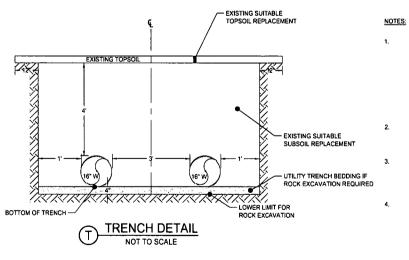
Q DETAIL FIGURE II-9: STREAM CROSSING -TEMPORARY, WITH CULVERT NOT TO SCALE

- 1. THE STRUCTURE SHALL BE LARGE ENOUGH TO HANDLE A 1-YEAR FREQUENCY STORM, 24 HOUR DURATION.
- 2. DEPTH OF COVER OVER CULVERTS SHALL BE ½ THE DIAMETER OF THE CULVERTS USED OR 12 INCHES. WHICHEVER IS GREATER
- 3. MULTI-CULVERTS SHOULD BE INSTALLED WITH SPACES BETWEEN THEM, EQUAL TO ½ THE PIPE DIAMETER.
- 4. LOW WATER CROSSINGS MAY BE USED, IF PROTECTED WHEN OVERFLOWING OCCURS. THIS CAN BE ACCOMPLISHED BY USING ROCK AND CONCRETE.
- 5, CROSS CRIBBING OF THE DOWNSTREAM SIDE OF CULVERT INSTALLATIONS MAY BE NEEDED TO AID IN REDUCING STRUCTURAL DAMAGE DURING HIGH VELOCITY WATER OVERFLOW PERIODS.
- 6. IF CULVERTS OR BRIDGES ARE NOT USED AND A STONE BASE DOESN'T EXIST, STONE SHALL BE INSTALLED, WITH THE ENTRANCE AND EXIT BEING STONED FOR APPROXIMATELY 100 FEET.
- 7. DITCH LINE EXIT POINTS AT STREAM CROSSINGS MUST HAVE SEDIMENT CONTROLS.



(R) STANDARD CONSTRUCTION DETAIL -TIMBER MAT BRIDGE

- 1. THIS TYPE OF BRIDGE IS GENERALLY USED FOR SMALL STREAM CROSSINGS LESS THAN 20 FEET IN WIDTH IN COMBINATION WITH A PROPER STREAM BANK CONFIGURATION.
- 2. BRIDGE WILL BE TEMPORARILY REMOVED IF HIGH WATER RENDERS IT UNSAFE FOR CROSSING
- 3. BRIDGE TO REMAIN IN PLACE UNTIL THE COMPLETION OF FINAL RESTORATION.
- 4. SILT FENCE, SAND BAGS, DRIVABLE BERMS, OR OTHER APPROPRIATE EROSION CONTROL MAY BE USED INTERCHANGEABLY
- 5. A "SKIRT" FORMED OF SILT FENCE, GEOTEXTILE FABRIC, OR EQUIVALENT SHALL BE PLACED ON THE SIDES AND BOTTOM OF THE BRIDGE TO TRAP SEDIMENT AS NECESSARY.
- 6. INDIVIDUAL MATS SHALL BE ANCHORED AND BUTTED TIGHTLY TO MINIMIZE THE INTRODUCTION OF SEDIMENT TO THE WATERBODY.

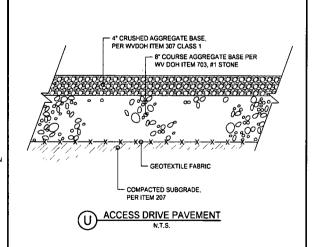


WHEN TRENCH EXCAVATION TAKES PLACE IN AN AGRICULTURAL, WETLAND, OR RESIDENTIAL AREA, THEN SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED. PLACE TRENCH PLUGS AT THE REQUIRED SPACING DURING UTILITY INSTALLATION. FOLLOW STREAM AND WETLAND CROSSING DETAILS LOCATED ON THE EROSION AND SEDIMENT CONTROL DRAWINGS FOR UTILITY CROSSINGS OF THESE FEATURES. SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION ON WATER BODY AND WETLAND CROSSING, DURING CONSTRUCTION, INSTALL AND MAINTAIN ANY ADDITIONAL EROSION AND SEDIMENT CONTROL BMP's AND IMPLEMENT STRUCTURAL POST CONSTRUCTION STORMWATER BMP's (PERMANENT WATERBARS) THAT MAY BE REQUIRED. SEE UTILITY LINE INSTALLATION REQUIREMENTS NOTES FOR LIMITS OF WORK.

ANY WATER ENCOUNTERED WITHIN THE EXCAVATION AREAS DURING CONSTRUCTION SHALL BE REMOVED BY USING PUMPS, HOSES, AND PUMPED WATER FILTER BAGS WHICH SHALL BE DISCHARGED INTO

BACKFILL AREAS EXCAVATED FOR THE INSTALLATION OF UTILITIES WITH SUITABLE EXCAVATED MATERIAL. IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL SHALL BE REPLACED FIRST, FOLLOWED BY THE TOPSOIL BEING SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. FINAL GRADES SHALL BE THE

AFTER CONSTRUCTION IS COMPLETE, FINAL SEEDING AND MULCHING OF ALL DISTURBED AREAS NOT YET STABILIZED SHALL BE COMPLETED. INSTALL EROSION CONTROL BLANKETING ON SLOPES WHICH ARE 3:1 OR STEEPER. STABILIZE AND SEED ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS.



IEC		SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS		
IFC	MRKR#	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
						#=		
07/22/14		_				\pm		· · · · · · · · · · · · · · · · ·
DATE								

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• Architecture

• Survey

• Construction Mgt

• Env

RED-ORANGE WATER LINE

SWPPP DETAILS

	JOB NO.:
CONSOL ENERGY	DESIGN:
	DRAWN:
	CHECKED

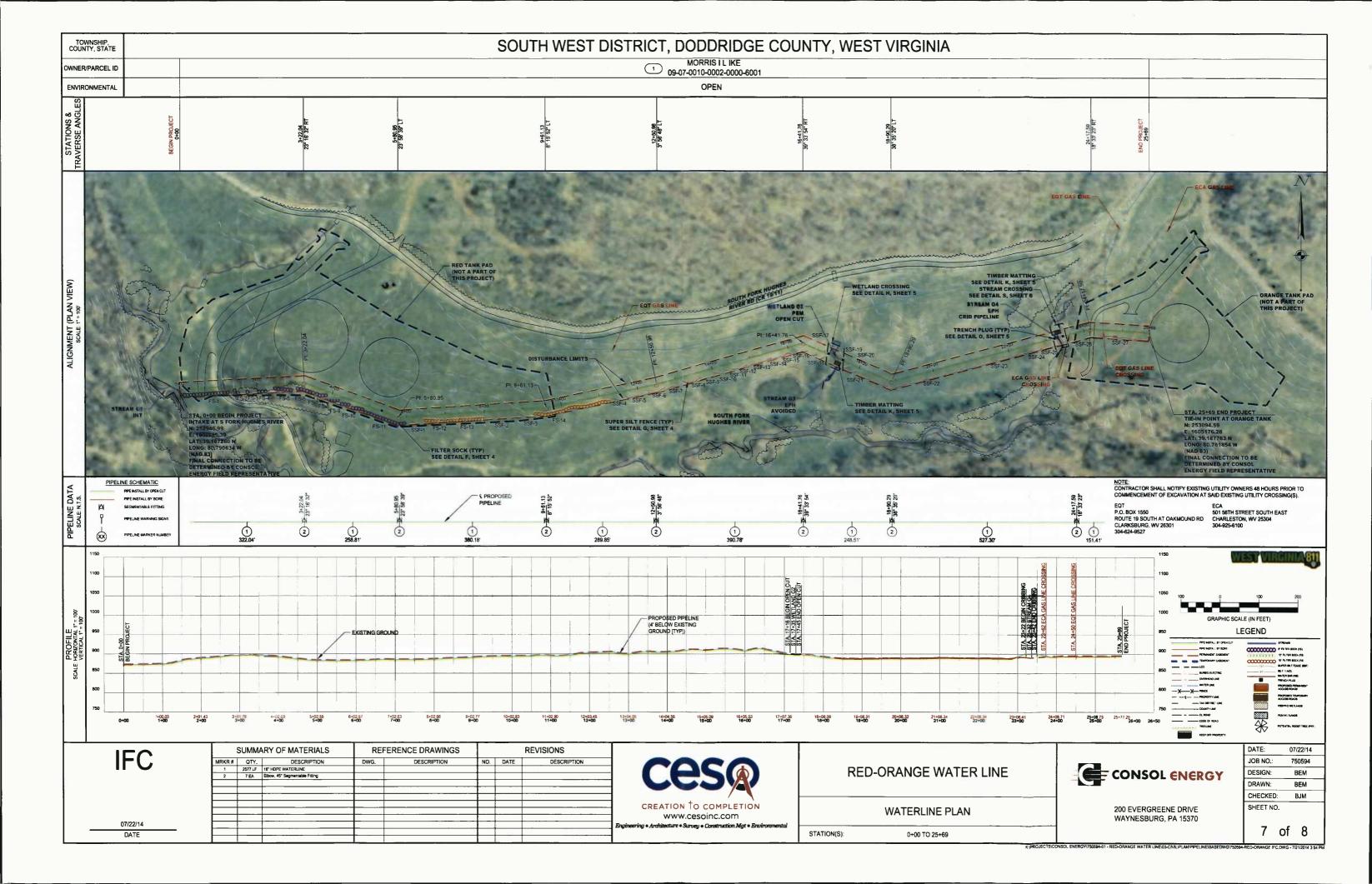
DESIGN: BEM DRAWN: BEM CHECKED: ВЈМ SHEET NO. 200 EVERGREENE DRIVE WAYNESBURG, PA 15370

DATE:

6 of

07/22/14

750594



	RED TO ORANGE WATERLINE FILTER SOCK SIZING CHART*					
SOCK#	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (fl.)	APPROXIMATE LOCATION
FS-1	8	4	100	200	123	1+00
FS-2	8	16	29	100	18	1+45
FS-3	8	11	24	140	13	1+74
FS-4	8	8	19	200	30	2+15
FS-5	8	20	14	100	55	2+60
FS-6	8	4	63	400	49	3+40
FS-7	8	10	65	200	34	3+75
FS-8	8	15	78	140	33	4+75
FS-9	8	12	121	140	28	4+40
FS-10	8	12	140	140	33	4+75
FS-11	8	8	200	200	118	5+30
FS-12	1B	9	294	300	56	6+75
FS-13	18	10	262	300	98	7+50
FS-14	18	15	197	200	200	10+35

RED TO ORANGE WATERLINE TRENCH PLUG LOCATION CHART**					
PLUG# STATION					
1	0+25				
2	5+34				
3	17+12				
4	17+53				
5 23+23					
6 23+45					

EROSION AND SEDIMENT CON	ITROL BMP PRACTICE	:S		
ВМР	UNITS	QUANTITY		
B* COMPOST FILTER SOCK	FT	534		
18" COMPOST FILTER SOCK	FT	354		
SUPER SILT FENCE	FT	1382		
SILT FENCE .	FT	177		
TRENCH PLUG	EA	6		
TIMBER MATS (10 FT WIDTH, ASSUME 8 FT SECTION LENGTHS)	LF	32		
STREAM CROSSING - CRIBBING	EA	1		
TOB TO TOB (PIPELINE CONST.)	LF	1		

STREAM CROSSINGS - PIPELINE						
STREAM ID TOB TOB LENGTH (LF) TIMBER MAT LENGTH (LF)						
STREAM G4	23+32 23+33		1	16		
TOTAL: 1 16						

WETLAND CROSSINGS - PIPELINE						
WETLAND ID	EDGE	EDGE	LENGTH (LF)	TIMBER MAT LENGTH (LF)		
WETLAND G2	17+26	17+42	16	16		
TOTAL: 16 16						

'FILTER SOCK DESIGN BASED ON THE TABLE FOUND IN THE FILTREXX LOW IMPACT DESIGN MANUAL, VERSION 8, SECTION 1: EROSION & SEDIMENT CONTROL, PAGE 324.

"TRENCH PLUG DESIGN BASED ON THE TABLE PROVIDED ON THE TRENCH PLUG DETAIL ON SHEET 5. SOME TRENCH PLUGS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

IFO	SUMMARY OF MATERIALS REFERENCE DRAWINGS		REVISIONS					
IFC	MRKR#	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
		-						
				-		—		
07/22/14								
DATE						\vdash		

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RED-ORANGE WATER LINE

E&S TABLES AND QUANTITIES

STATION(S): N/A



200 EVERGREENE DRIVE WAYNESBURG, PA 15370

DATE:	07/22/14
JOB NO.:	750594
DESIGN:	ВЕМ
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SHEET NO.	
8 0	of 8



Attachment D- Project Location-Adjacent and/or Affected Landowners

TAX ID: 09-06-0003-0002-0000-6001

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: Route 23, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351



United States Department of the Interior



FISH AND WILDLIFE SERVICE

West Virginia Field Office 694 Beverly Pike Elkins, West Virginia 26241

September 25, 2014

Mr. Andrew Longenecker CESO, Inc. 800 Bursca Drive, Suite 804 Bridgeville, Pennsylvania 15017-1451

Re: Orange to Blue Waterlines & Orange to Red Waterlines Project, Doddridge County, WV

Dear Mr. Longenecker:

This responds to your August 29, 2014, request for information regarding the potential occurrence of federally listed endangered and threatened species and their designated critical habitats. Cone Gathering, LLC (Cone) proposes to install waterlines and a temporary water withdrawal unit to extract water from the South Fork Hughes River, in Doddridge County, West Virginia. These comments are provided pursuant to the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

The U.S. Fish and Wildlife Service (Service) has determined that three federally listed endangered species may occur within the project impact area, and may be affected by the proposed water withdrawal. They are the Indiana bat (*Myotis sodalis*), the clubshell mussel (*Pleurobema clava*), and the snuffbox mussel (*Epioblasma triquetra*).

Additionally, on October 2, 2013, in the Federal Register (78 FR 61045 -61080) the Service proposed the northern long-eared bat (Myotis septentrionalis) for listing under the ESA. A final listing determination is anticipated by April 2015. If a decision is made to list this species, potential impacts from this project to this species will need to be addressed if this project is not completed by the time the listing takes effect. We encourage you to begin incorporating conservation measures to protect these species prior to any potential final listing decisions. Additional information regarding the northern long eared bat and conference procedures can be found at the following address:

http://www.fws.gov/midwest/endangered/mammals/nlba/pdf/NLEBinterimGuidance6Jan2014.pdf

Indiana bat

The project area is within the range of the Indiana bat and may provide summer foraging and roosting habitats, as well as winter habitat, for this endangered mammal. Indiana bats may use the proposed site for foraging and roosting between April 1 and November 14. In West Virginia, the Service considers all forest habitats 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 use caves or mine portals for winter hibernation habitat between November 15 and March 31.

The Service has evaluated the availability of suitable foraging and roosting habitats on the West Virginia landscape relative to the best estimate of the statewide population of Indiana bats. On that basis, we have determined that projects affecting 17 acres or less of suitable forest habitat and that occur 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 capture sites where no roosts were identified are very unlikely to result in direct or indirect impacts to the species. The effects of such projects are considered discountable and the projects, therefore, are not likely to adversely affect the species. Tree removal associated with such projects can occur at any time of year.

The proposed action involves less than 17 acres of tree clearing, does not occur within the hibernacula or summer-use buffers described above, and does not require work in the vicinity of any caves or mine portals. Therefore, the project is not likely to adversely affect the Indiana bat.

Freshwater Mussels

This project proposes to withdraw water from the South Fork Hughes River, which contains suitable habitat for clubshell and snuffbox mussels. Freshwater mussels play a key role in the health of aquatic environments by helping to maintain water quality, cycle nutrients, stabilize substrates, remove suspended sediments, and create habitat complexity (Anderson and Kreeger, 2012). Mussels remove suspended particulates from water by filter-feeding, which involves straining water over gills to remove microscopic food particles. Filter-feeding makes mussels very sensitive to excessive sedimentation caused by runoff from streambank and upland activities. Excessive sedimentation into a stream reduces suitable habitat for mussels and can smother them, causing death. Excessive suspended sediments can also impair feeding processes of mussels, leading to acute short-term or chronic long-term stress. Both excessive sedimentation and excessive suspended sediments can lead to reduced populations of mussels and therefore reduced benefits to the ecosystem (Anderson and Kreeger, 2010; Box and Mossa, 1999; Ellis, 1931; Ellis, 1936; Houp, 1993).

In electronic mail correspondence on September 8, 2014, you stated that the temporary withdrawal intake will be secured to a floating buoy that will be constructed from the streambank in such a manner so as to not disturb the stream bottom. The intake structure will have a 4 inch screen, with an open area that will cause a maximum allowable velocity of 0.50 ft/s, on it to protect aquatic life and will only extract water from the top of the water column to further avoid any impacts to the stream bottom. The temporary water withdrawal intake is estimated to be in place for no more than one year.

Please note that although the West Virginia Department of Environmental Protection (WVDEP) has drafted guidance and a web-based tool for water withdrawal limits related to natural gas production and other development activities, the tool has not yet been validated as adequately

protective of freshwater mussels or other aquatic species under all weather and precipitation conditions. We recommend that the tool be checked daily before withdrawing significant quantities of water from any watershed known to contain freshwater mussels. It is also recommended that users exercise caution and use common sense, particularly during drought or extended dry conditions, or in cases where multiple users may be withdrawing water from the same source. If a stream is low and withdrawing additional water could expose portions of the stream bottom or banks that are normally submerged, including riffle areas downstream from pools from which water is typically withdrawn, we recommend that users find a different location or water source that does not contain federally listed species. We recommend that water users not block, dam, or divert flows, or excavate pools or otherwise create unnatural deep spots in the aquatic habitats listed above or in their direct tributaries. Use of the tool does not absolve users of liability for the loss of aquatic life, including potential violation of the Endangered Species Act if take of federally listed species occurs. Cone has committed to utilize the WVDEPs water withdrawal guidance tool to ensure that it is environmentally safe to withdraw water from the South Fork Hughes River.

Additionally, Cone commits to implement best management practices (BMPs) for reduction of erosion and sedimentation as shown and described in the construction documents received by this office on September 3, 2014. These BMPs cover all work areas of the proposed project. The Service believes that implementation of these BMPs will minimize, to the extent practicable, the likelihood of adverse impacts to the South Fork Hughes River and the clubshell and snuffbox mussels. This office should be notified immediately if any deviations from the submitted project plans and associated BMPs are anticipated, or if any significant erosion-control or sedimentation issues occur during construction of the project. All erosion and sedimentation measures will be in accordance with the West Virginia online BMP manual for standard guidelines and specifications available at: https://apps.dep.wv.gov/dwwm/stormwater/bmp/index.html.

Because the proposed construction of the water withdrawal location will not directly impact the stream bottom and screens will protect aquatic life, the Service concludes that the project is not likely to adversely affect any federally endangered or other freshwater mussels.

In the event that these proposed waterlines and temporary water withdrawal structure are made permanent, consultation with the Service will need to be reinitiated. The Service is concerned that a permanent water withdrawal facility on the South Fork Hughes River would adversely impact downstream mussel populations. The recent spike in oil and gas development has led to increased disturbances in the South Fork Hughes watershed. The accumulation of pipeline crossings, access roads, and water withdrawal intake structures along this river has led to increases in erosion and sedimentation. Disturbances along the river can cause degradation of habitat quality for mussel populations downstream. A long term water withdrawal facility could exacerbate these impacts and adversely affect endangered freshwater mussels. Because the South Fork Hughes watershed is small, supports large populations of native freshwater mussels, including populations of clubshell and snuffbox mussels, the Service recommends not permanently withdrawing water from this river. As an alternative, we recommended withdrawing water from a larger or alternative watershed that does not support federally listed aquatic species.

Mr. Andrew Longenecker September 25, 2014

As a result of the information presented above, the Service has concluded that the project may affect, but is not likely to adversely affect any federally listed endangered or threatened species. Therefore, no biological assessment or further section 7 consultation under the ESA is required with the Service. 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 determination may be reconsidered. If you have any questions regarding this letter, please contact Tiernan Lennon of my staff, at (304) 636-6586, Ext. 12, or at tiernan_lennon@fws.gov, or at the letterhead address.

Sincerely,

John E. Schmidt Field Supervisor



DEPARTMENT OF THE ARMY

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

October 8, 2014

Regulatory Division
Energy Resource Branch
LRH-2014-762-South Fork Hughes River-OHR

Mr. Adam White CNX Gas, LLC One Energy Drive Post Office Box 1248 Jane Lew, WV 26378

Dear Mr. White:

I refer to the Pre-Construction Notification (PCN) submitted on your behalf by CESO, Inc., received in this office on July 29, 2014 and additional information received on August 9, 2014 and September 29, 2014. You have requested authorization to discharge dredged and/or fill material into waters of the United States (U.S.) in conjunction with the construction of the Red to Orange Waterline Project. The project will include the installation of approximately 0.48 mile of twin 16-inch waterlines to connect a water withdrawal point within the South Fork Hughes River to the proposed Orange Water Storage Tank near Porto Rico, Doddridge County, West Virginia. The installation of the waterlines will require the temporary discharge of dredged and/or fill material into Wetland G2, which is adjacent to a tributary to the South Fork Hughes River, a tributary of the Ohio River, a traditionally navigable water of the U.S.

The United States Army Corps of Engineers (Corps) authority to regulate waters of the U.S. is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a Department of the Army (DA) permit be obtained prior to discharging dredged or fill material into waters of the U.S., including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over or under a navigable water.

Based on a review of the aquatic resources in the PCN submittal, three stream channels totaling 322 linear feet and one wetland totaling 0.02 acre are located within the Area of Interest (AOI) as indicated in Table 1, which is attached to the PJD form. The on-site aquatic resources may be waters of the U.S. in accordance with the Regulatory Guidance Letter for Jurisdictional Determinations (JDs) issued by the Corps on June 26, 2008 (Regulatory Guidance Letter NO. 08-02). As indicated in the guidance, this Preliminary Jurisdictional Determination (PJD) is non-binding and cannot be appealed (33 CFR 331.2) and only provides a written indication that waters of the U.S. may be present on-site.

You have declined to exercise the option to obtain an approved JD in this instance and at this time. However, for the purposes of the determine of discharges of fill into waters of the U.S., compensatory mitigation, and aquatic resource protection measures for activities which require

authorization from this office, the streams referenced above will be evaluated as if they were waters of the U.S.

Enclosed please find two (2) copies of the PJD form. If you agree with the findings of this PJD and understand your options regarding the same, please sign and date one copy of the PJD form and return it to this office within thirty (30) days of receipt of this letter. You should submit the signed copy to the following address:

United States Army Corps of Engineers
Huntington District
Attn: Energy Resource Branch
502 8th Street
Huntington, WV 25701

You have requested authorization to discharge fill material into waters of the U.S. in conjunction with the installation of twin 16-inch High Density Polyethylene (HDPE) waterlines into one (1) palustrine emergent wetland utilizing the open trench method. The excavation of the trench and subsequent installation of the twin waterlines will result in the temporary discharge of dredged material into 0.02 acre of one (1) wetland within the project limits. Upon completion of the installation of the waterlines, the temporarily affected wetland will be restored to its predisturbance contours and elevations. In addition, two ephemeral streams will be crossed via aerial crossings (cribbing with timber mat bridges). The cribbing device will be installed on either end of the stream crossing at a minimum of ten (10) feet from the top of bank to the center of the cribbing bank and will be above the 25-year storm event elevation. The installation of the aerial crossings will not result in the discharge of fill material into waters of the U.S.

Based on the information provided in the permit application, it has been determined the discharge of dredged and/or fill material into waters of the U.S., to facilitate the installation of 0.48 mile of twin 16-inch HDPE waterlines meets the criteria for authorization under Nationwide Permit (NWP) #12 (enclosed) under the February 21, 2012 Federal Register, Notice of Reissuance of NWPs (77 FR 10184) provided you comply with all terms and conditions of the enclosed material. A copy of this NWP can be found on our website at http://www.lrh.usace.army.mil/Missions/Regulatory.aspx. Please note that you must comply with all applicable terms and conditions of the enclosed material and the attached special conditions for the authorizations to be valid.

In view of the above, your utility line activities project is authorized subject to the terms and conditions of the enclosed material, including the enclosed special conditions. It is your responsibility to ensure that your work conforms to all of the environmental management conditions listed within the enclosed material. Please be aware this NWP verification does not obviate the requirement to obtain any state or local assent required by law for the activities.

A copy of this NWP and verification letter must be supplied to your project engineer responsible for construction activities. A copy of the verification letter must be kept at the site during construction. Upon completion of the work, the enclosed certification must be signed and

returned to this office. If you have any questions concerning the above, please contact Kimberly Courts-Brown at (304) 399-6906 or by email at Kimberly.d.courtsbrown@usace.army.mil.

Sincerely,

Samantha Dailey

Regulatory Project Manager Energy Resource Branch Regulatory Division

CF: (w/out encls)

Mr. Andrew Longenecker CESO Inc. 800 Bursca Drive Suite 804 Bridgeville, Pennsylvania 15017-1451 Longenecker@cesoinc.com



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200 South Charleston WV 25303-1228 TDD (304) 558-1439 TDD 1-800-354-6087 Fax (304) 558-6048 Telephone (304) 558-3225

Frank Jezloro
Director

Earl Ray Tomblin

October 30, 2014

Division of Natural Resources RIGHT OF ENTRY

Re: P-14-VI/09-1140

CNX Gathering, LLC Adam White CESO, Inc. 800 Bursca Drive Suite 804 Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a term of ten (10) years, from the date hereof, a License and Right of Entry to construct, replace, cover, repair, operate, maintain, use and remove two (2) sixteen inch (16") HDPE surface waterlines via cribbing (Red-Orange Waterline) along an unnamed tributary of the South Fork Hughes River near Porto Rico in Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A.

This Right of Entry is subject to the following terms and conditions:

- 1. No in stream work during the fish-spawning season (April 1-June 30).
- 2. Any streambed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
- 3. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
- 4. Green concrete must not be put in the stream (highly toxic to aquatic life).
- 5. Amount of stream side vegetation disturbed should be kept to a minimum.
- 6. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.

CNX Gathering, LLC P-14-VI/09-1140 Page 2 October 30, 2014

7. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State 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.

Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity for you to obtain a permit from the U.S. Corps of Engineers District Office, Permit Section, or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This 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 you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your payment in the amount of \$450.00 is now due and payable to the Division of Natural Resources covering the (10) ten-year fee of this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,

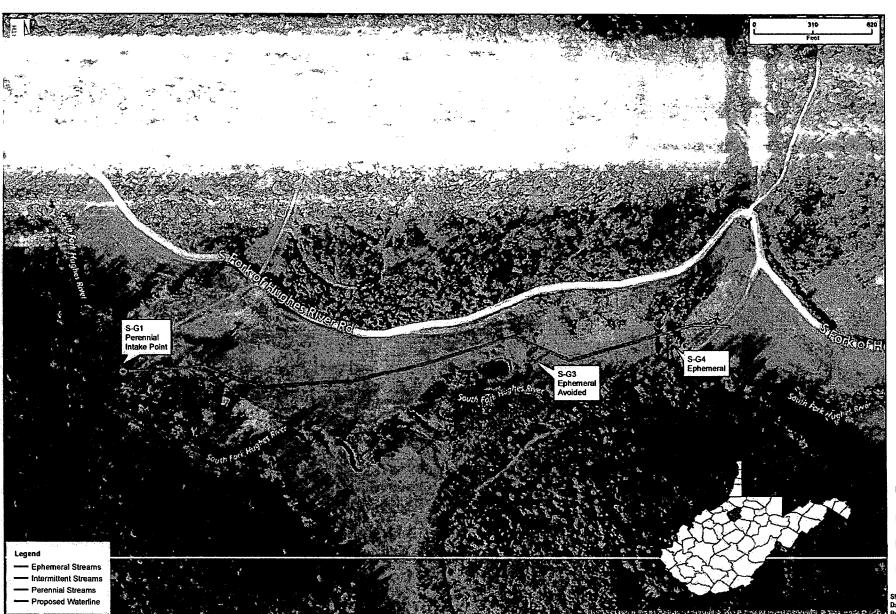
Joe T. Scarberry, Supervisor Office of Land and Streams

JTS:cb

pc: DNR Fish Biologist

Jeremy Bandy, Environmental Enforcement

DNR Conservation Officers







Red to Orange Waterline Stream Crossing Map Doddridge County, West Virginia



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200 South Charleston WV 25303-1228 TDD (304) 558-1439 TDD 1-800-354-6087 Fax (304) 558-6048 Telephone (304) 558-3225

Frank Jezioro

Director

Earl Ray Tomblin

Governor

October 30, 2014
Division of Natural Resources
RIGHT OF ENTRY

Re:

LS-14-VI/09-1141

CNX Gathering, LLC Adam White c/o CESO, Inc. 800 Bursea Drive Suite 804 Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a period of ten (10) years from the date hereof, a Right of Entry for the purpose of a timber mat bridge crossing (Red-Orange Waterline) along an unnamed tributary of the South Fork Hughes River near Porto Rico in Doddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

- No in stream work during the fish-spawning season (April 1-June 30).
- 2. Work should be completed as quickly as possible during low flows in designated work areas only.
- 3. Any streambed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
- 4. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
- 5. Green concrete must not be put in the stream (highly toxic to aquatic life).
- 6. Guidance should be obtained from NRCS (formerly SCS) and a registered engineer for the design and construction. Must allow for passage of at least ten-year year flood flow.
- 7. Be a management practices should be followed; measures such as hay but a mast be used to reduce downstream siltation.
- 8. Applied this responsible for removing debris from in and around the instruction periodically to prevent stream flow obstruction.

CNX Gathering, LLC LS-14-VI/09-1141 Page 2 October 30, 2014

- Durable head walls of logs, crossties, rock, or concrete shall be constructed at both the upstream and downstream ends of crossing to prevent erosion of fill material into the stream.
- 10. Bridge installation should not impede passage of recreational water craft. Water craft must be able to pass through or over the structure, whichever the applicant prefers.
- 11. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State assume any liability for the applicant's/landowner's construction activities. By accepting this Pinht-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this activity to both upstream and downstream landowners.
- 12. A 404 permit may be required from the U.S. Army Corps of Engineers. You may c. Tithem at 304-529-5710 or 412-395-7155.

Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity for you to the in a permit from the U.S. Corps of Engineers District Office, Permit Section, or any other state or federal mitts which may be required by law, nor does this Right of Entry negate the need to comply with the West surginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative requirements, applicant is also responsible for determining if the proposed activity is located within an identified flood part and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or play any obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or play any material that lies upon the property of any other persons. Work should be completed in as briefly any of the terms or conditions herein, this Right of Entry will be canceled and considered null and the land the land the land the land the land the land the Division will reject further applications.

Your part the amount of \$100.00 is now due and payable to the Division of Natural Resources covering the firstly annual fee of this agreement. You must notify the Division in writing with this installation has been aboved. Your agreement will be effective upon receipt of your payment in full.

Sincerely,

Joe T. Scarberry, Supervisor Office of Land and Streams

JTS:cb

pc: DNR Field Cot siet

for, Jereng // Environmental **Enforcement**

ENR Co... in Officers

From: DEP NPDESEP

Sent: Thursday, August 14, 2014 8:19 AM

To: DEP NPDESEP; a white@consolenergy.com

Cc: Swiger, Bradley C; in alge, Timothy W; Minigh, Christina D

Subject: Approval fo: W. /R310346, Red-Orange Waterline, Doddridge Co., 2.36 Acres

Adam White
CNX Gas Company LLC
One Energy Drive
Jane Lew, WV 26370

Physical Site Location: Th. Rt. 40, Porto Rico

Please be advised that this e-mail constitutes approval for your project associated with Oil and Gas Construction Activities and your registration no. is WVR310346. You are now authorized to operate under WV 'NPDES General Water Pollution Control Permit No. WV0116815, issued on May 13, 2013.

You should carefull a read the contents of this General Permit and become familiar with all requirements needed to remail in compliance with your permit. A "Notice of Termination" form is to be completed and submitted where a disturbed areas are stabilized. You can find the permit and Notice of Termination formed. Internet by visiting Permitting, Division of Water and Waste Management at www.den.gov.com/annual/permit-fee has been assessed as \$ 100.00. You will be invoiced by this agency upon the and a carry date of this approval date. Failure to submit the annual fee within ninety (90) days of the dungate will render your permit void upon the date you are mailed a certified written notice to that effect. The ase be advised that a pro-rated annual permit fee may be assessed upon the completion date and premer stabilization.

If you have any one sign irrelative to this approval, please do not hesitate to contact Alice Cooper at (304) 127 1499 for the mail at alice.e.cooper@wv.gov.

Scott G. Mandirola, 1 in con-

WV DTP-Division of their & Waste Mgt.

601 ! " St. BE

Charliston MV 132 1345

Phor: (0.01026) **Fax:** (0.04) 0.26-04 0.0



DIVISION OF NATURAL RESOURCES Wildlife Resources Section Operations Center

P.O. Box 67 Elkins, West Virginia 26241-3235 Telephone (304) 637-0245 Fax (304) 637-0250

Earl Ray Tomblin
Governor

Frank Jezioro Director

August 7, 2014

Mr. Andrew Longenecker CESO, Inc. 800 Bursca Drive, Suite 804 Bridgeville, PA 15017-1451

Dear Mr. Longenecker:

We have reviewed our files for information on rare, threatened and endangered (RTE) species and sensitive habitats for the area of the proposed Red to Orange Waterline project in Doddridge County, WV.

We have no known records of any RTE species or sensitive habitats within the project area. The Wildlife Besources 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.

The information provided above is the product of a database search and retrieval. This information does repeatisfy 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 we your inquiry, and should you have any questions please feel free to contact me at it. we number, or barbara.d.sargent@wv.gov. Enclosed please find an invoice.

Sincerely,

Environmental Resources Specialist

Wildlife Diversity Unit

enchasure



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200 South Charleston WV 25303-1228 TDD (304) 558-1439 TDD 1-800-354-6087 Fax (304) 558-6048 Telephone (304) 558-3225

Frank Jezioro

Director

Earl Ray Tomblin Governor

October 30, 2014
Division of Natural Resources
RIGHT OF ENTRY

Re: LS-14-VI/09-1142

CNX Gathering, LLC Adam White c/o CESO, Inc. 800 Bursca Drive Suite 804 Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a period of one (1) year a Right of Entry to install, maintain and use a water intake system (Red-Orange Waterline) along the South Fork Hughes River nea Posta Rico in Coddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

- 1. The applicant must have a water management plan for this water withdrawal projection roved by the West Virginia Department of Environmental Protection.
- 2. This permit does not allow any streambed disturbances. If any streambed disturbances are to be preformed, a mussel survey will be required.
- 3. Water will frawals will <u>not</u> be allowed during the fish spawning season: April 1 the string other times of the year, the applicant must follow the DEP Water Withdraw Guidance Tool for allowable periods to withdraw water.
- 4. Work should be completed as quickly as possible during low flows in designated work programmly.
- 5. The procession of aquatic life at a water withdrawal site includes the prevention of entrainment and important interest. Entrainment is the unwanted passage of fish or other aquatic life through a water in a point which is generally caused by an absent or inadequate screen surrounding the water in a point intake velocities which are too high to allow the fish to escape. Therefore the wall intake must;

CNX Gathering, LLC LS-14-VI/09-1142 Page 2 October 30, 2014

- a. Be located in at least three feet of water;
- b. Include a screen surrounding the entire intake with openings no larger than 0.1875 (3/16) inches for floating intake structures or 0.10 inches for submerged or buried intakes;
- c. Be designed to limit the through-screen approach velocity to 0.5 feet per second or less;
- d. Be regularly inspected and well-maintained.
- 6. Any streambed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
- 7. The South Fork Hughes River is known to contain endangered freshwater mussels and other important aquatic animals. Dewatering and the entrainment and/or impingement of aquatic life are a major concern to resource agencies. The angles of will be responsible for any damages that may occur to aquatic life from the contact the WV Division of Natural Resources (Fisheries Biologist; Scott Morrowship, 304 420-4550 or Mussel Biologist; Janet Clayton, 304 637-0245) and/or the JS Fish and Wildlife Service for more information. These agencies have remain terrumbe authority to levy fines and other punitive measures in the event that counts animals are harmed.
- 8. All shore areas disturbed by this operation must be reshaped, seeded and mulch of in mediately upon completion of work. The prompt establishment of vegetarious over will reduce future damage from high water levels.
- 9. Guid a mould be obtained from NRCS (formerly SCS) and a registered engine and easign and construction. Must allow for passage of at least ten-
- 10. Best more ement practices should be followed; measures such as hay bales more to reduce downstream siltation.
- 11. Applicant is responsible for removing debris from in and around the installation profession are prevent stream flow obstruction.
- 12. More saw in will be permitted when the natural stream flow is less than 50% of the incommonthly flow.
- 13. The suance of this Right-of-Entry does not provide for the applicant to be requested boundaries nor does the State assume any liability for the additional substitution activities. By accepting this Right-of-Figure 12 (and/landowner assumes liability for any/all damages caused by both upstream and downstream landowners.
- 14. Stream regions or a device to measure the required minimum flow (for example: fam) is required.

CNX Gathering, LLC LS-14-VI/09-1140 Page 2 October 30, 2014

Guidelines of Pest Management Practices for Sediment and Erosion Control as outlined by the urces, Division of Environmental Protection must be followed. Copies of those Section of Water Fire from the Section of Water Resources, 601 57th Street, S.E., Charleston, West guidelines are avall Virginia 25304-2345. lephone No. (304) 926-0440.

necessity for you ' other state or for comply with the administrative report charge of that program grant any dishtroor permission trans fail or refuse to (

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the in a permit from the U.S. Corps of Engineers District Office, Permit Section, or any mits which may be required by law, nor does this Right of Entry negate the need to rginia Water Pollution Control Act and/or the State Environmental Quality Board's s, applicant is also responsible for determining if the proposed activity is located within an identified floc figher, and it is the applicant's responsibility for contacting the local governmental agency in and obtaining a flood plain development permit for it. This Right of Entry does not es, or permission to enter upon or to cross the property of any other person, nor is nove any material that lies upon the property of any other persons. In the event you with any of the terms or conditions herein, this Right of Entry will be canceled and considered null at the Division will reject further applications.

Resource 1 dot your payment if

the amount of \$100.00 is now due and payable to the Division of Natural one time fee of this agreement. Your agreement will be effective upon receipt of

Sincerely,

Joe∕f. Scarberry Office of Land and Streams

JTS/cb

nvironmental Enforcement

on Officers



Edwin Wriston < doddridgecountyfpm@gmail.com>

Floodplain Fee Calculations for Projects submitted by CESO

1 message

Natalie Hooton hooton@cesoinc.com

Fri, Aug 1, 2014 at 1:30 PM

To: "doddridgecountyFPM@gmail.com" <doddridgecountyFPM@gmail.com>

Mr. Wriston- Below are the calculations that were made to determine the fees required for the Doddridge County Floodplain permits. Please let me know if additional information is required. Thank you for your assistance. Natalie

EQT-OX11

- Pipeline & Waterline Construction 370 LF * \$250 = \$92,500
- Timber Matting = \$500
- Access Road Apron 2 EA * \$1,000 = \$2,000
- Total Floodplain Construction Cost = \$95,000
- Check Amount Required = \$500

Meathouse Fork-OX11

- Waterline Construction 435 LF *150 = \$65,250
- Timber Matting = \$500
- Temp Pad Intake = \$20,000
- Total Floodplain Construction Cost = \$85,750
- Check Amount Required = \$500

Red to Orange Waterline

- Pipeline & Waterline Construction 1,693 LF * \$150 = \$254,000
- Timber Matting = \$500
- Total Floodplain Construction Cost = \$254.500
- Check Amount Required = \$1,000 + (\$5 * (154,500/1,000) = \$1,772.50

Orange to Blue Waterline

- Waterline Construction 4,415 LF *150 = \$662,250
- Timber Matting = \$1,750
- Access Roads 5 * \$2,500 = \$12,500
- Total Floodplain Construction Cost = \$676,500
- Check Amount Required = \$1,000 + (\$5 * (576,500/1,000) = \$3,882.50

Natalie Hooton



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Legal Advertisement de la constitue de la cons

STATE OF WEST VIRGINIA, COUNTY OF DODDRIDGE, TO WIT

I, Virginia Nicholson, Editor of THE HERALD RECORD, a weekly newspaper
published regularly, in Doddridge County,
West Virginia, Do Hereby Certify That the Accompanying Legal Notice
Entitled:
Floodplain Permit
Red-Orange Waterline
was published in said paper for?
successive weeks beginning with the issue
of august 5th 2014 and
ending with the issue of
August 12th 2014 and
that said notice contains
WORD SPACE at
amounts to the sum of \$ 3.1.74.
FOR FIRST PUBLICATION, SECOND PUBLICATION IS 75% OF THE FIRST PUBLICATION
\$ 16,31 and each publication thereafter
s 38.05 TOTAL
Luginia Micholson
SWORN TO AND SUBSCRIBED
BEFORE ME THIS THE DAY
OF August 2014
NOTARY PUBLIC
Whenox Idam
OFFICIAL SEAL OFFICI

LAURA J ADAMS 212 Edmond Street West Union, WV 26456 My Commission Expires June 14, 2023