Baseline Assessment – Stream Attributes

*During the initial site visit on 8/10/2021 data could not be collected due to limited stream access. Past agricultural use piled large rock within the stream. For this streams, professional judgment was used to assign proxy values based on comparable streams in proximity.

Reach S-PP3 (Pipeline ROW) Perennial Spread G Craig County, Virginia

Data	Included
Photos	✓
USM Form (Virginia Only)	✓
SWVM Form	
FCI Calculator and HGM Form	
RBP Physical Characteristics Form	
Water Quality Data	
RBP Habitat Form	Proxy Stream Information Utilized; Refer to
RBP Benthic Form	Master Stream Summary Table
Benthic Identification Sheet	
Wolman Pebble Count	
RiverMorph Data Sheet	
Longitudinal Profile and Cross Sections	√

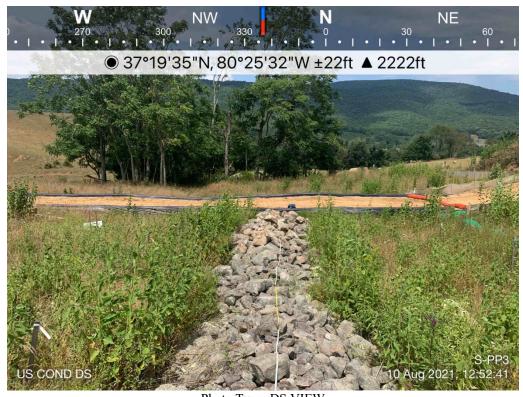


Photo Type: DS VIEW Location, Orientation, Photographer Initials: Downstream view of ROW looking NW, SB



Photo Type: US VIEW Location, Orientation, Photographer Initials: Upstream view of ROW looking SE, SB



Location, Orientation, Photographer Initials: Standing on LB looking at RB along pipe centerline looking NE, SB



Location, Orientation, Photographer Initials: Standing on RB looking at LB along pipe centerline looking SW, SB



Photo Type: DS COND Location, Orientation, Photographer Initials: Downstream conditions outside of ROW looking NW, SB

				Unified St	ream Method	dology for use			1)		
Project #				For use in wadeable channels classified as intermit Locality Cowardin Class. HUC			Date SAR #		Impact Impact Length Factor		
22865.06				Craig County	R3	05050002	8/10/21	S-PP3	82	1	
Nam	e(s) of Evalua		Stream Nam		ation				SAR Length		
	SB/EL/ES UNT to Sinking Creek								8	2	
. Channel (Condition: Asse	ess the cross-sec	ction of the stream								
	Optimal Subopt				Conditional Catego Mar	ginal	Poor		Sev	/ere	
Channel Condition	Very little incision or active erosion; 80 100% stable banks. Vegetative erosurface protection or natural rock, prominent (80.10%). AND/OP Stable M		Slightly incised, few areas of active erosion or unprotected banks. Majority of banks are stable (60-80%).		Often incised, but less than Severe or Poor. Banks more stable than Severe or Poor due to lower bank slopes.		Overwidened/incised. Vertically / laterally unstable. Likely to widen further. Majority of both banks are		Deeply incised (or excavated), vertical/lateral instability. Severe incision, flow contained within the		
o o i u i u i u i	to their original fi developed wide bar channel bars and tr	ransverse bars few. It deposition covers	Depositional feat stability. The bar channels are wel likely has acc benches,or ne portions of the r sediment covers	-80%) AND/OR ures contribute to htfull and low flow II defined. Stream ess to bankfull ewly developed each. Transient s 10-40% of the bottom.	40-60% of banks. be vertical or un 40-60% Sediment transient, contr Deposition that co may be forming/p shaped channel protection on > 40 depositional featur	atative protection on Streambanks may dercut. AND/OR may be temporary / ribute instability, ontribute to stability, resent. AND/OR V-s have vegetative % of the banks and res which contribute ability.	on 20-40% of insufficient to puthe stream is cow Sediment is temp nature, and contril AND/OR V-shap vegetative protect 40% of the banks a	protection present banks, and is revent erosion. ered by sediment. orary / transient in outing to instability. ed channels have ion is present on > and stable sediment is absent.	than 20% of banks erosion. Obvious present. Erosion, 100%. AND/OR A	ion present on less s, is not preventing s bank sloughing /raw banks on 80- kggrading channel. In bed is covered by butting to instability. channels and/or	CI
Scores	3	3	2	.4		2	1	.6	•	1	1.00
. IN AINAI	. DOI I LING. /	rosess built ballk			entire SAP (rou	ah measuramanta	of length & width	may be accontab	le)		
	Opti	imal	Con	ditional Cate	gory	gh measurements	of length & width	may be acceptab	NOTES>>		
Riparian Buffers	Tree stratum (dbh > with > 60% tree	imal > 3 inches) present, e canopy cover. within the riparian	Con Subor Subor High Suboptimal: Riparian areas with tree stratum (dbh > 3 inches) present, with 30% to 60% tree canopy cover and containing both herbaceous and shrub layers or a non-maintained understory.	ditional Cate ptimal Low Suboptimal: Riparian areas with tree stratum (dbh > 3 inches) present, with 30% to 60% tree canopy cover and a maintained understory. Recent cutover (dense vegetation).	High Marginal: Non-maintained, dense herbaceous vegetation with either a shrub layer or a tree layer (dbh > 3 inches) present, with <30% tree canopy cover.	ginal Low Marginal: Non-maintained, dense herbaceous vegetation, riparian areas lacking shrub and tree stratum, hay production, ponds, open water. If present, tree stratum (dbh >3 inches) present, with <30% tree canopy cover with maintained understory.	High Poor: Lawns, mowed, and maintained areas, nurseries; no-till cropland; actively grazed pasture, sparsely vegetated non- maintained area, recently seeded and stabilized, or other comparable condition.	Low Poor: Impervious surfaces, mine spoil lands, denuded surfaces, row crops, active feed lots, trails, or other comparable conditions.			
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	St	ream In	npact A	ssessn	nent Fo	rm Pag	e 2		
Project #	Project Name (App	licant)	Locality	Cowardin Class.	HUC	Date	SAR#	Impact Length	Impact Factor
22865.06	Mountain Valley Pipeline Valley Pipeline, L	•	Craig County	R3	05050002	8/10/21	S-PP3	82	1
. CHANNEL	L ALTERATION: Stream crossi	ings, riprap, conci	rete, gabions, or c	concrete blocks, st	traightening of cha	annel, channelizat	ion, embankments	s, spoil piles, const	trictions, livestock
				al Category				NOTES>>	
	Negligible		Conditiona nor	Mod	erate	Sev		NOTES>>	
Channel Alteration	Negligible Channelization, dredging, alteration, or hardening absent. Stream has an	Minus Less than 20% of the stream reach	20-40% of the stream reach is disrupted by any of the channel	Mode 40 - 60% of reach is disrupted by any of the channel	erate 60 - 80% of reach is disrupted by any of the channel alterations listed in	Greater than 80% o	of reach is disrupted let alterations listed uidelines AND/OR ored with gabion,		

REACH CONDITION INDEX and STREAM CONDITION UNITS FOR THIS REACH

NOTE: The CIs and RCI should be rounded to 2 decimal places. The CR should be rounded to a whole number.

THE REACH CONDITION INDEX (RCI) >> 0.54 RCI= (Sum of all Cl's)/5, except if stream is ephemeral RCI = (Riparian Cl/2)

COMPENSATION REQUIREMENT (CR) >> 44

CR = RCI X L_I X IF

INSERT PHOTOS:

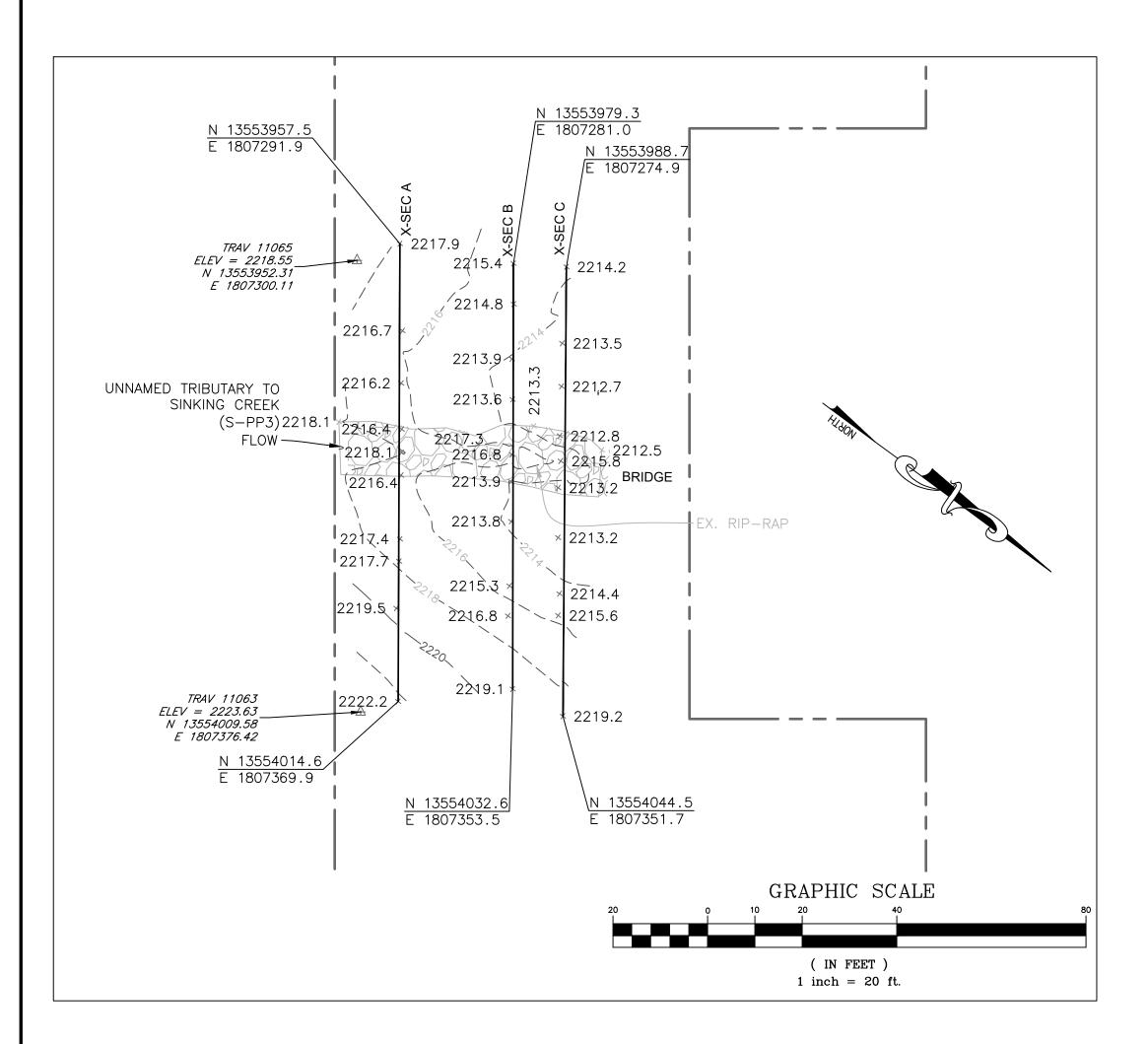
(WSSI Photo Location "L:\22000s\22800\22865.06\Admin\05-ENVR\Field Data\Spread G\Field Forms\S-PP3\Photos\S-PP3_US COND DS.JPG")



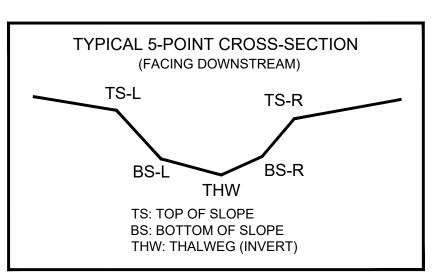
Looking downstream within the ROW. Assessment is limited to areas within the temporary ROW.

DESCRIBE PROPOSED IMPACT:

PROVIDED UNDER SEPARATE COVER



CL STAKEOUT POINTS: S-PP3 CROSS SECTION B (PIPE CL)								
	P	PRE-CROSSING						
PT. LOC.	NORTHING	EASTING	ELEV	VERT.	HORZ.			
PI. LUC.	NORTHING	EASTING	ELEV	DIFF.	DIFF.			
TS-L	13553984.44	1807287.86	2214.78					
BS-L	13553993.32	1807300.62	2213.62					
THW	N/A	N/A	N/A					
BS-R	13554011.28	1807325.13	2213.81					
TS-R	13554022.59	1807341.60	2216.80					

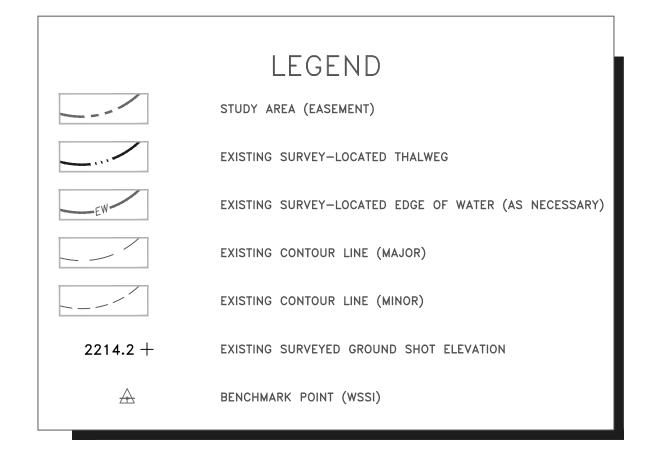


SURVEY NOTES:

- 1. This map has been oriented to NAD 1983 UTM ZONE 17N, and vertically to The North American Vertical Datum of 1988 (NAVD 88), using a Real Time Network (RTN) GPS. Field locations were completed on October 24, 2018.
- 2. Monumentation, including traverse stations and fly points, shown on this drawing should be used to orient any future boundary, topographic, or location survey.
- 3. Easement lines shown on plan view were provided by Mountain Valley Pipeline (MVP).
- 4. WSSI Contour Interval = 2.0'. Contours within the channel were interpolated using stream channel breaklines (i.e. top of slopes, toe of slopes, thalweg) and cross-sectional points. Contours outside the channel were interpolated using cross-sectional spot shots.
- 5. All section views shown are left to right facing downstream.
- 6. Cross-section B shot at location of pipe centerline (based on best professional judgement).

CROSS SECTION LEGEND

EXISTING GRADE

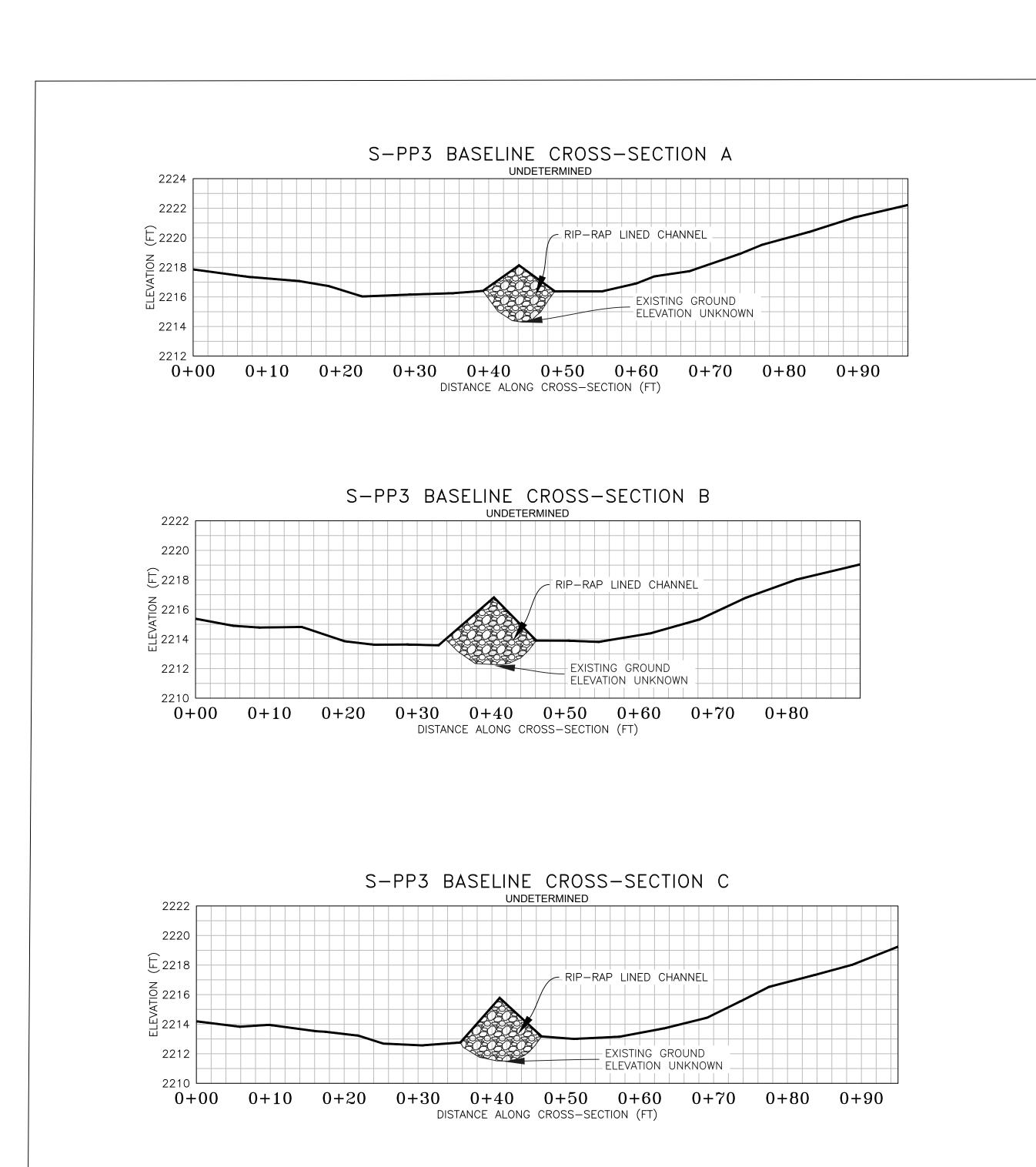


CROSS SECTION

SCALE:

H: 1"=10'

V: 1"=5'



NOTE: ALL SECTION VIEWS SHOWN LEFT TO

RIGHT FACING DOWNSTREAM.



Wetland

7.8)

7

to



PHOTO TAKEN LOOKING DOWNSTREAM ON 03/10/2018



PHOTO TAKEN LOOKING UPSTREAM ON 03/10/2018

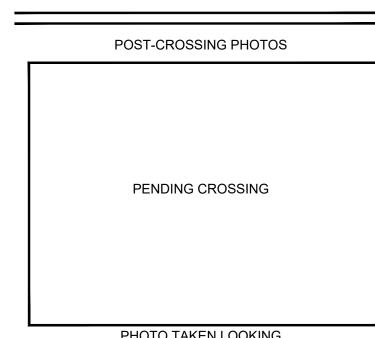


PHOTO TAKEN LOOKING
PENDING CROSSING
PHOTO TAKEN LOOKING

	Rev. App. By By						
	Rev. By						
REVISIONS	No. Date Description						DATE: September, 2021 SCALE: AS NOTED
	No.						DA
Horiz	zontal 1	Datı	ım:	NAD	1983 U	TM ZC	NE 17N

	No.						DAT
Horiz	zontal]	Datı	ım:	NAD	1983 U	TM ZC)NE 17N
Vertical Datum: NAVD 88							
Boundary and Topo Source: MVP WSSI 2' C.I. Topo							
Des	ign	Г	raft		$\mathbf{A}_{\mathbf{j}}$	ppro	ved
EJ	C	P	MD)	1	VAS	3
		S	heet	:#			

Computer File Name: :\Survey\22000s\22800\22865.03\Spread G Work Dwgs 2865_03 S-G MP 208-227 Sheets.dwg

1 of 1