Baseline Assessment – Stream Attributes

Revisit

Additional field visits were attempted on 2/8/2022, however data could not be collected due to limited access (existing spans). For those streams, professional judgment was used to assign proxy values based on comparable streams in proximity.

Reach S-IJ19 - Downstream 9' (Temporary Access Road)
Ephemeral
Spread G
Giles County, Virginia

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

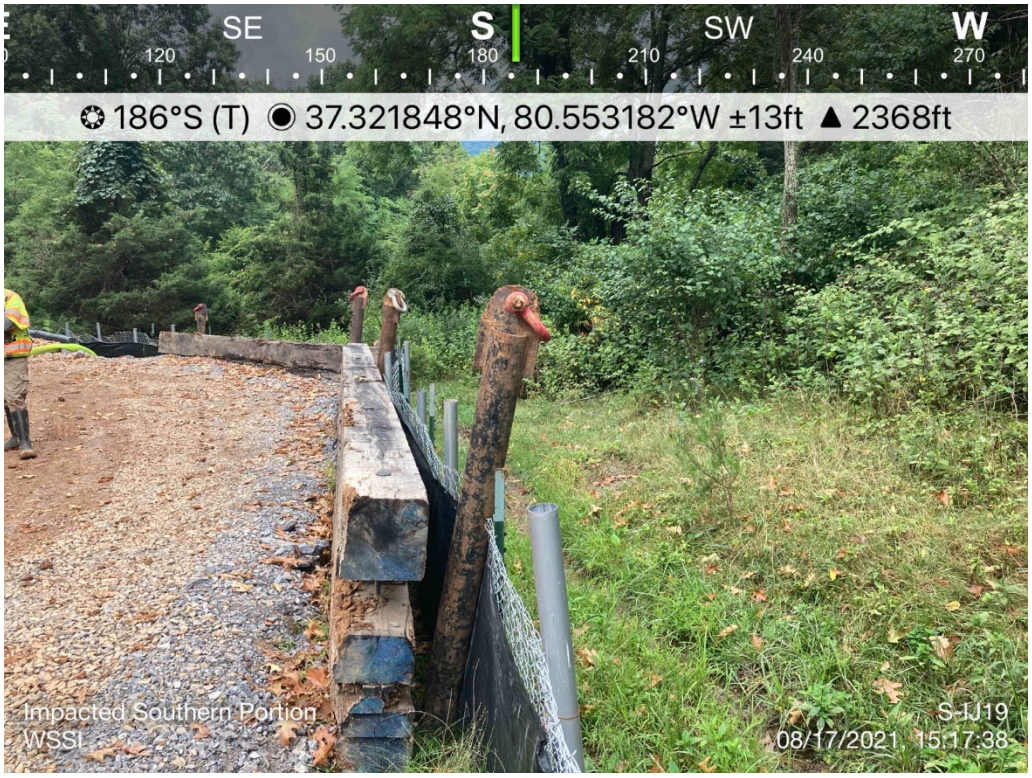


Photo Type: DS VIEW
Location, Orientation, Photographer Initials: Downstream view of LOC looking S, ES

Photo Type: US VIEW
Location, Orientation, Photographer Initials: Upstream view of LOC looking N, ES

Photo Type: DS VIEW
Location, Orientation, Photographer Initials: Downstream view of LOC looking S, KB

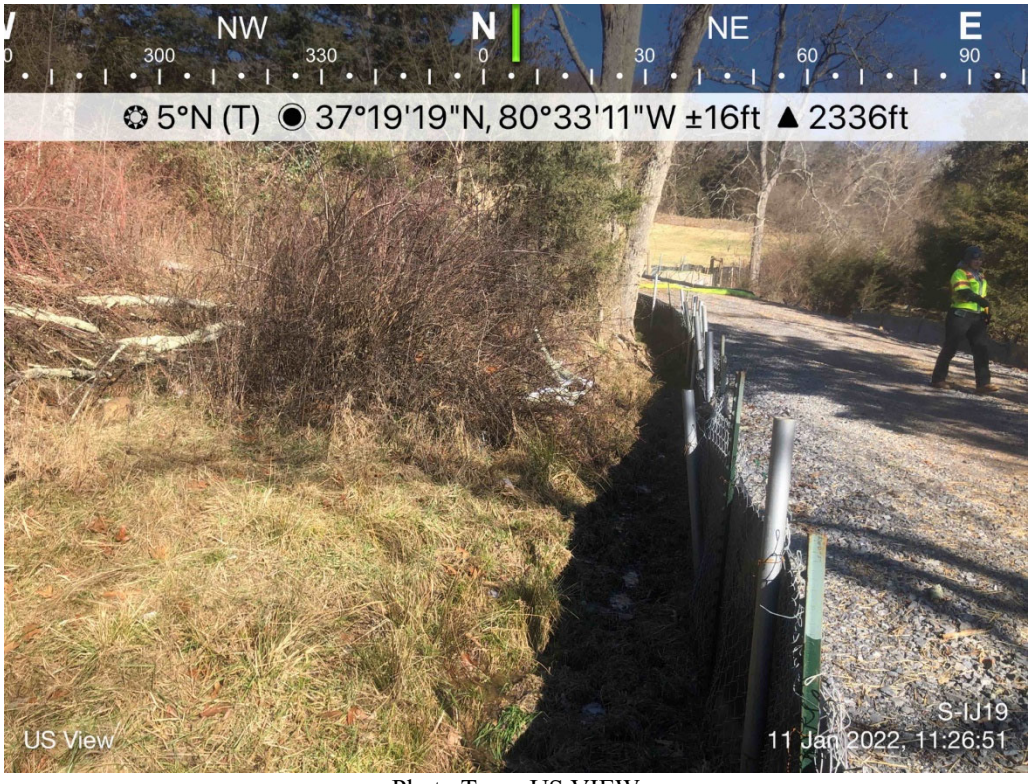


Photo Type: US VIEW
Location, Orientation, Photographer Initials: Upstream view of LOC looking N, KB

Photo Type: CL ACCESS 1
Location, Orientation, Photographer Initials: Standing off the Access Road looking E, KB

Photo Type: CL ACCESS 2
Location, Orientation, Photographer Initials: Standing off the Access Road looking W/SW, KB

Photo Type: DS COND
Location, Orientation, Photographer Initials: Downstream conditions outside of LOC looking S/SW, KB

Photo Type: US COND
Location Orientation, Photographer Initials: Upstream conditions outside of LOC looking E/NE, KB

Ephemeral Stream Assessment Form (Form 1a)

Unified Stream Methodology for use in Virginia

For use in ephemeral streams

Project #	Project Name	Locality	Cowardin Class.	HUC	Date	SAR #	Impact Length	Impact Factor
22865.06	Mountain Valley Pipeline (Mountain Valley Pipeline, LLC)	Giles County	R6	05050002	8/17/2021	S-IJ19	9	1

Name(s) of Evaluator(s)	Stream Name and Information	SAR Length
ES/AW/KD/EM	UNT to Sinking Creek	9

2. RIPARIAN BUFFERS: Assess both bank's 100 foot riparian areas along the entire SAR. (rough measurements of length & width may be acceptable)

Conditional Category								NOTES>>
	Optimal	Suboptimal		Marginal		Poor		
Riparian Buffers	Tree stratum (dbh > 3 inches) present, with > 60% tree canopy cover and an non-maintained understory. Wetlands areas.	**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.	**Low Suboptimal:** Riparian areas with tree stratum (dbh > 3 inches) present, with >30% 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.	**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.	
		High	Low	High	Low	High	Low	
Condition Scores	1.5	1.2	1.1	0.85	0.75	0.6	0.5	

1. Delineate riparian areas along each stream bank into Condition Categories and Condition Scores using the descriptors.
2. Determine square footage for each by measuring or estimating length and width. Calculators are provided for you below.
3. Enter the % Riparian Area and Score for each riparian category in the blocks below.

Ensure the sums of % Riparian Blocks equal 100

Right Bank	% Riparian Area>	90%	10%					100%			
	Score >	0.5	0.6								
									CI= (Sum % RA * Scores*0.01)/2		
Left Bank	% Riparian Area>	90%	10%					100%	Rt Bank CI >	0.51	CI
	Score >	0.5	0.6						Lt Bank CI >	0.51	0.51

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) >>	0.26

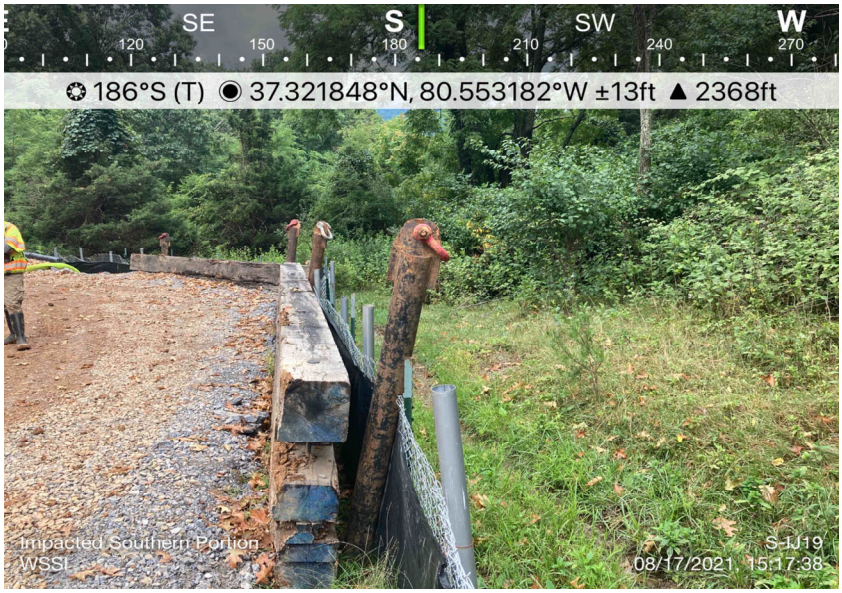
RCI= (Riparian CI)/2

COMPENSATION REQUIREMENT (CR) >>	2

CR = RCI X LF X IF

INSERT PHOTOS:

(WSSI Photo Location "L:\22000s\22800\22865.06\Admin\05-ENVR\Field Data\Spread G\Field Forms\S-IJ19 Southern\Photos\IMG_0167.JPG")



Downstream view looking S within access road. Stream was not found in the field, however, riparian buffer scores were assigned based on best professional judgement. Assessment is limited to areas within the temporary ROW.

DESCRIBE PROPOSED IMPACT:

PROVIDED UNDER SEPARATE COVER