

Instructions: Complete the data fields shown in red for proposed stream impacts. Once the appropriate information has been received, the applicable WVDNR Fisheries Biologists will be contacted for review. For more information, contact Danielle.A.Elliott@wv.gov or call the WVDNR Coordination Unit at the Elkins Operations Center at 304-637-0245.

Fish Spawning Waiver Request- Mountain Valley Pipeline															Submitted by: Matthew Hoover Date: 07.27.18	
Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/Denial		
1	S-N8a	UNT to Hominy Creek	Perennial	Nicholas	38.162363	-80.733602	Temporary	9/15/2018	2	Pipeline ROW	187'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	
2	S-VV1	UNT to Hominy Creek	Intermittent	Nicholas	38.161085	-80.734282	Temporary	9/15/2018	2	Temporary Access Road	45'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval	
3	S-VV1	UNT to Hominy Creek	Intermittent	Nicholas	38.161064	-80.735022	Temporary	9/15/2018	2	Pipeline ROW	79'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	
4	S-H88	Sugar Creek	Perennial	Nicholas	38.136744	-80.730560	Temporary	9/15/2018	2	Pipeline ROW	76'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	
5	S-H90	Sugar Creek	Perennial	Nicholas	38.137462	-80.729246	Temporary	9/15/2018	2	Temporary Access Road	8'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval	
6	S-H80	UNT to Hominy Creek	Intermittent	Nicholas	38.128044	-80.733815	Temporary	9/15/2018	2	Pipeline ROW/Temporary Access Road	20'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval	
7	S-H71	UNT to Hominy Creek	Perennial	Nicholas	38.124315	-80.735783	Temporary	9/15/2018	2	Pipeline ROW	93'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	
8	S-H67	UNT to Hominy Creek	Perennial	Nicholas	38.120580	-80.736772	Temporary	9/15/2018	2	Pipeline ROW	85'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	
9	S-H66	UNT to Hominy Creek	Intermittent	Nicholas	38.120088	-80.737022	Temporary	9/15/2018	2	Pipeline ROW	10'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	
10	S-H64	UNT to Hominy Creek	Intermittent	Nicholas	38.116279	-80.735319	Temporary	9/15/2018	2	Pipeline ROW	87'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	
11	S-V3	UNT to Hominy Creek	Perennial	Nicholas	38.115823	-80.730960	Temporary	9/15/2018	2	Pipeline ROW	80'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	
12	S-EF41	UNT to Hominy Creek	Intermittent	Nicholas	38.107549	-80.726284	Temporary	9/15/2018	2	Pipeline ROW	82'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval	

1 Definitions for Rationale are listed below

Access to ROW/Extended Environmental Impacts: By allowing instream crossings during the restricted period, Mountain Valley will be able to permanently restore more continuous sections of ROW. If the crossing is delayed until later in the year, the ROW leading to and from can only be temporarily restored because construction equipment will need to return to the stream crossing. Travelling to and from the stream crossing will disturb any area that has been restored to final grading and seeded/mulched. In addition, leaving these areas in the temporary restoration phase creates the potential for sedimentation issues and revegetation.

Steep Slopes: All slopes over 20 degrees will require a winching/anchoring system to safely complete the project. The stream installations need to be in place to lay the hillside because in these steep slope situations, the pipe installation starts at the bottom of the hill and proceeds up the hill. As the pipe is laid up the slope, the area can be backfilled and restored as the project progresses and this eliminates the need to return to the site.

Slip Mitigation: Slip potential can also be minimized by reducing the number of crossings up and down these steep slopes. Similar to installing the permanent vegetation and restoration, being able to install the slip mitigation measures during the initial pass through, will enable Mountain Valley to immediately stabilize and install any required slip mitigation measures.

Safety: Safety is the most important part of this project. Constructing in West Virginia is an inherently complicated task especially along the steep slopes, by not having waivers, we would need to make multiple passes up and down winch hills. Our goal is to have the contractor winch and anchor one time along these areas – the less the contractor needs to engage in this process, the less they are exposed to the risks.

Road Crossings: Mountain Valley would like to simultaneously conduct the stream crossings adjacent to the roadways. This reduces the potential for additional stream impacts by reducing the number of trips to and near the streams.