

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: 07.26.18															
	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-A96/A103	UNT to Left Fork Holly River	Ephemeral	Webster	38.688706	-80.478590	Temporary	09/15/18	2	Pipeline ROW	83'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
2	S-A97	UNT to Left Fork Holly River	Intermittent	Webster	38.688329	-80.478406	Temporary	09/15/18	2	Pipeline ROW	125'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
3	S-A99	UNT to Left Fork Holly River	Ephemeral	Webster	38.688120	-80.478371	Permanent	09/15/18	2	Pipeline ROW	34'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
4	S-A98	UNT to Left Fork Holly River	Intermittent	Webster	38.687906	-80.478024	Temporary	09/15/18	4	Pipeline ROW/Temporary Access Road	392'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
5	S-E83a	UNT to Left Fork Holly River	Intermittent	Webster	38.677346	-80.475023	Temporary	09/15/18	2	Temporary Access Road	15'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
6	S-A100	Left Fork Holly River	Perennial	Webster	38.676643	-80.477940	Temporary	09/15/18	2	Pipeline ROW	80'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
7	S-E78/E82/R1	UNT to Left Fork Holly River	Perennial	Webster	38.676223	-80.477663	Temporary	09/15/18	2	Pipeline ROW	102'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
8	S-E76	UNT to Left Fork Holly River	Ephemeral	Webster	38.674988	-80.477360	Temporary	09/15/18	2	Pipeline ROW	51'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
9	S-KK1	UNT to Left Fork Holly River	Ephemeral	Webster	38.672719	-80.476227	Temporary	09/15/18	2	Pipeline ROW	9'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
10	S-KK2	UNT to Left Fork Holly River	Ephemeral	Webster	38.672226	-80.476315	Temporary	09/15/18	2	Pipeline ROW	75'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
11	S-KK3b	UNT to Left Fork Holly River	Ephemeral	Webster	38.672110	-80.476515	Temporary	09/15/18	2	Pipeline ROW	100'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
12	S-KK4b	UNT to Left Fork Holly River	Ephemeral	Webster	38.671976	-80.476825	Temporary	09/15/18	2	Pipeline ROW	88'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
13	S-E74	UNT to Left Fork Holly River	Perennial	Webster	38.671971	-80.476990	Temporary	09/15/18	2	Pipeline ROW	68'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
14	S-E72-Braid	UNT to Oldlick Creek	Perennial	Webster	38.667986	-80.478369	Temporary	09/15/18	2	Temporary Access Road	21'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
15	S-E72	UNT to Oldlick Creek	Perennial	Webster	38.667954	-80.478366	Temporary	09/15/18	2	Temporary Access Road	30'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
16	S-F40	Oldlick Creek	Perennial	Webster	38.667943	-80.479023	Temporary	09/15/18	2	Pipeline ROW	87'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
17	S-S1	UNT to Oldlick Creek	Ephemeral	Webster	38.667251	-80.480186	Temporary	09/15/18	2	Temporary Access Road	43'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
18	S-S1	UNT to Oldlick Creek	Ephemeral	Webster	38.667020	-80.478624	Temporary	09/15/18	2	Pipeline ROW	21'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes; Slip Mitigation	Approval
19	S-S2	UNT to Oldlick Creek	Intermittent	Webster	38.666810	-80.481345	Temporary	09/15/18	2	Temporary Access Road	40'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
20	S-S3	UNT to Oldlick Creek	Ephemeral	Webster	38.665757	-80.482481	Temporary	09/15/18	2	Temporary Access Road	104'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
21	S-S4	UNT to Oldlick Creek	Ephemeral	Webster	38.664389	-80.484709	Temporary	09/15/18	2	Temporary Access Road	45'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval

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22	S-F43	UNT to Oldlick Creek	Ephemeral	Webster	38.663706	-80.478644	Temporary	09/15/18	2	Pipeline ROW	101'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
23	S-R5	UNT to Right Fork Holly Creek	Perennial	Webster	38.652757	-80.495715	Temporary	09/15/18	2	ATWS/Temporary Access Road	36'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
24	S-R5	UNT to Right Fork Holly Creek	Perennial	Webster	38.652689	-80.495898	Temporary	09/15/18	2	Permanent Access Road	26'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
25	S-E67	Right Fork Holly Creek	Perennial	Webster	38.648021	-80.489704	Temporary	09/15/18	2	Pipeline ROW	92'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approval
26	S-A83/A91	UNT to Camp Creek	Perennial	Webster	38.557293	-80.538966	Temporary	09/15/18	2	Temporary Access Road	95'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
27	S-A83/A91	UNT to Camp Creek	Perennial	Webster	38.557237	-80.541093	Temporary	09/15/18	2	Temporary Access Road	41'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
28	S-A83/A91	UNT to Camp Creek	Perennial	Webster	38.557064	-80.535592	Temporary	09/15/18	2	Pipeline ROW	75'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
29	S-A89	UNT to Camp Creek	Perennial	Webster	38.556980	-80.537011	Temporary	09/15/18	2	Temporary Access Road	54'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
30	S-A92	UNT to Camp Creek	Ephemeral	Webster	38.556961	-80.536397	Temporary	09/15/18	2	Temporary Access Road	138'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
31	S-A92	UNT to Camp Creek	Ephemeral	Webster	38.556658	-80.535607	Temporary	09/15/18	2	Pipeline ROW	59'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
32	S-A88	UNT to Camp Creek	Intermittent	Webster	38.556958	-80.537675	Temporary	09/15/18	2	Temporary Access Road	62'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
33	S-A90	UNT to Camp Creek	Intermittent	Webster	38.556951	-80.536556	Temporary	09/15/18	2	Temporary Access Road	98'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
34	S-A86/A87	UNT to Camp Creek	Intermittent	Webster	38.556948	-80.537406	Temporary	09/15/18	2	Temporary Access Road	208'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
35	S-A93	UNT to Camp Creek	Ephemeral	Webster	38.556823	-80.535751	Temporary	09/15/18	2	Temporary Access Road	13'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
36	S-A93	UNT to Camp Creek	Ephemeral	Webster	38.556682	-80.535572	Temporary	09/15/18	2	Pipeline ROW	105'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
37	S-H108	Lower Laurel Fork	Perennial	Webster	38.549358	-80.539260	Temporary	09/15/18	2	Pipeline ROW	78'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
38	S-H107	UNT to Camp Creek	Intermittent	Webster	38.548467	-80.540073	Temporary	09/15/18	2	Pipeline ROW	10'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
39	S-H105	UNT to Camp Creek	Perennial	Webster	38.548824	-80.539644	Temporary	09/15/18	2	Pipeline ROW	121'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
40	S-H107	UNT to Camp Creek	Intermittent	Webster	38.548463	-80.540050	Permanent	09/15/18	2	Permanent Access Road	30'	20'	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
41	S-H107	UNT to Camp Creek	Intermittent	Webster	38.548378	-80.539980	Temporary	09/15/18	2	Pipeline ROW	90'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
42	S-H104	Camp Creek	Perennial	Webster	38.548121	-80.540431	Temporary	09/15/18	2	Pipeline ROW	104'	12'	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approval
43	S-H103	UNT to Camp Creek	Intermittent	Webster	38.545817	-80.542972	Temporary	09/15/18	2	Pipeline ROW	37'	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.