

Photograph Direction SE

Date: 05/06/2015

Comments: 2015 stream identification.



Photograph Direction SE

Date: 10/10/2019

STREAM ID S-H114	STREAM NAME UNT to Elk River			
LAT 38.613259 LONG -80.504243	DATE 05/06/2015			
CLIENT MVP	CLIENT MVP			
INVESTIGATORS A. Grech, S. Kelly, M. Whitten				
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW NRPW <u>✓</u>			

Perennial _	Intermitte	nt Ephem	eral 🖊 TNW 📖	RPW —	NRPW 💆		
			Measurements		Stream Erosion		
		Top of Ban	k Width: 2.0 ft		✓ NoneModerate	Heavy	
		Top of Ban	k Height:		Artificial, Modified or Char	nnelized	
		LB <u>6.0</u>	in RB <u>6.0</u>	<u>in</u>	✓ Yes No		
CHANNEL FE	ATUDEC	Water Dep	th: 0.00 in				
CHANNEL FE	AIURES	Water Widt			Dam PresentYes _	<u>∕</u> No	
			Mark: <u>6.0 in</u>		Sinuosity <u>v</u> Low	Medium High	
						_ 3	
		Flow Direct	IIOU: INOLILI		Gradient Flat _✓ Moderate _	Severe	
					—	(10 ft/100 ft)	
		Water Pres	sent		Proportion of Reach Repre	esented by Stream	
			r, stream bed dry		Morphology Types	-	
		_	oed moist		Riffle % Run	%	
FLOW		— Standing	•		Pool %		
CHARACTER	ISTICS	Flowing	water		Turbidity		
		Velocity			ClearSlightly	turbidTurbid	
		Fast	Moderate		OpaqueStained		
		Slow			Other		
INORGANIC SUBSTRATE COMPONENTS					RGANIC SUBSTRATE CON		
	(should a	add up to 10			does not necessarily add u	1	
Substrate	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Type Bedrock			Sampling Reach	туре		Sampling Area	
Boulder	> 256 mm (10")			Detritus	sticks, wood, coarse plant materials (CPOM)	30	
Cobble					` ` `	- 00	
Gravel	2-64 mm (0.1"-2.5")		5	Muck-Mud	black, very fine organic (FPOM)	10	
Sand		nm (gritty)	30		(**************************************		
Silt		0.06 mm	30	Marl	grey, shell fragments		
Clay		mm (slick)	35		g. cy, ccagcc		
Predominant Surrounding Landuse Indicate the dominant type (Check one)					(Check one)		
		<u>✓</u> Forest			cial <u>v</u> Trees Shrubs		
			astureIndustria	l	Grasses Herbaceous		
WATERSHED		Agricult		tial	Floodplain Width		
FEATURES	,	<u>✓</u> Other:	✓ Other: Old road			rate 15-30ft	
		Canopy Co	over		✓ Narrow <16ft		
1 . 5			Partly openPartly shaded				
		Shaded			Wetland PresentYes Wetland ID	<u>✓</u> No	
Indicate the dominant type and record the dominant species prese							
,,			Rooted subme	•	ting Free floating		
Floating algae			g algae	Attached alga	e —	_	
Information listed on this form represe			presents the d	ata collected in 2015. The st	ream was revisited		
					nnel and OHWM was confirm		
MACROINVE	RTEBRATES	s [
OR OTHER WILDLIFE							
OBSERVED/C							
OBSERVATIONS AND NOTES							

Stream ID S-H114



Photograph Direction SW

Date: 05/06/2015

Comments: 2015 stream identification.



Photograph Direction North

Date: 10/10/2019

STREAM ID S-H112	STREAM NAME UNT to Elk River			
LAT 38.613163 LONG -80.504012	DATE 05/06/2015			
CLIENT MVP	CLIENT MVP			
INVESTIGATORS A. Grech, S. Kelly, M. Whitten				
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —			

Perenniai –	_ mermine	nt <u> </u>	erai — Tivvv —	RPW —	NRPW	
			leasurements		Stream Erosion	
		Top of Bank Width: 3.0 ft			NoneModerate .	Heavy
		Top of Bank	<u> </u>		Artificial, Modified or Chan	nelized
		LB <u>6.0</u>	n RB <u>6.0</u>	<u>in</u>	<u>✓</u> YesNo	
CHANNEL FE	ATURES	Water Dept	h: <u>0.50 in</u>		Dam Duasant Vas	. No
		Water Widt	h: <u>2.0 ft</u>		Dam PresentYes	NO
		High Water	Mark: 3.0 in		Sinuosity 🔽 Low	Medium High
		Flow Direct	ion: Northeast		Gradient	
					Flat Moderate	Severe
					. ,	(10 ft/100 ft)
		Water Pres	ent r, stream bed dry		Proportion of Reach Repre Morphology Types	sented by Stream
			ed moist		Riffle 70 % Run	%
ou		Standing			Pool 30 %	
FLOW CHARACTER	ISTICS	Flowing v	water		T	
		Valasitu			Turbidity <u>✓</u> ClearSlightly to	turbidTurbid
		Velocity Fast	Moderate		OpaqueStained	
		✓ Slow	_		Other	
INORGANIC SUBSTRATE COMPONENTS			ORGANIC SUBSTRATE COMPONENTS			
	(should	add up to 100	0%)	(c	(does not necessarily add up to 100%)	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")	5	Detritus	plant materials (CPOM)	20
Cobble	64-256 m	ım (2.5"-10")	20	Muck-Mud	black, very fine organic	20
Gravel	2-64 mm	า (0.1"-2.5")	20	Widok Wida	(FPOM)	20
Sand	0.06-2r	nm (gritty)	30			
Silt		0.06 mm	15	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	10			
			nt Surrounding Lan	iduse	Indicate the dominant type	
		Field/Pa	Commer asture Industrial		<u>✓</u> Trees Shrub: Grasses Herba	
		Field/PastureIndustrial Agricultural Residential		tial	_	ccous
WATERSHED FEATURES		✓ Other:			Floodplain Width	45 20 5
PEATURES					Wide > 30ft Moder	ate 15-30ft
Canopy Cove				adad		
				Wetland PresentYes Wetland ID	<u>✓</u> No	
			, , , , , , , , , , , , , , , , , , ,		lominant species present	
AQUATIC VEGETATION				Rooted subme	<u> </u>	ingFree floating
		Floating	<u></u>	Attached algae	-	
					ata collected in 2015. The str nnel and OHWM was confirm	

	Information listed on this form represents the data collected in 2015. The stream was revisited on 10/10/2019. The presence of a stream channel and OHWM was confirmed.
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	



Photograph Direction SW

Date: 05/06/2015

Comments: 2015 stream identification.



Photograph Direction NE

Date: 10/10/2019

STREAM ID S-H113	STREAM NAME UNT to Elk River			
LAT 38.612845 LONG -80.503743	DATE 05/06/2015			
CLIENT MVP	CLIENT MVP			
INVESTIGATORS A. Grech, S. Kelly, M. Whitten				
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —			

i elelililai =	intermitte	nt— Epitein		N: W —		
		Fatimata N	1		Ctus our Funcion	
				Stream Erosion ✓ None Moderate	Heavy	
						•
		Top of Ban	•	61	Artificial, Modified or Chai	nnelized
		LB <u>3.0</u>		<u>ft</u>	Yes _ <u>✓</u> No	
CHANNEL FE	ATURES	•	th: 4.00 in		Dam Present Yes	✓ No
		Water Widt	h: 10.0 ft			
		High Water	Mark: <u>16.0 in</u>		Sinuosity Low	Medium High
		Flow Direct	tion: North		Gradient	
					Flat Moderate _	✓ Severe
					(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)
		Water Pres	sent r, stream bed dry		Proportion of Reach Representation Morphology Types	esented by Stream
			ped moist		Riffle 60 % Run	%
E1 014		— Standing			Pool 40 %	
FLOW CHARACTER	ISTICS	<u>✓</u> Flowing	water		Total Lille	
		Volocity			Turbidity <u>✓</u> ClearSlightly	turbidTurbid
		Velocity Fast	✓ Moderate		Opaque Stained	
		Slow			Other	
INOR	GANIC SUB	STRATE CO	MPONENTS	0	RGANIC SUBSTRATE COM	// IPONENTS
	(should a	add up to 10	0%)	(0	does not necessarily add u	p to 100%)
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Dodnitus	sticks, wood, coarse	
Boulder	> 256	mm (10")	40	Detritus	plant materials (CPOM)	10
Cobble	64-256 m	m (2.5"-10")	40	Musels Musel	black, very fine organic	
Gravel	2-64 mm	n (0.1"-2.5")	20 Muck-Mud		(FPOM)	
Sand	0.06-2n	nm (gritty)				
Silt	0.004-0	0.06 mm	Marl		grey, shell fragments	
Clay	< 0.004	mm (slick)				
Predominant Surrounding Landuse Indicate the dominant type (Check one)						
		Forest	Commer		✓ Trees Shrub Grasses Herba	os aceous
		Field/Pasture Industrial Agricultural Residential Other:			Grassesnerba	iceous
WATERSHED	1			iidi	Floodplain Width Wide > 30ft Moderate 15-30ft Narrow <16ft	
FEATURES						
		Canopy Cover			V Nanow Clott	
		Partly open Partly shade Open		aueu	Wetland PresentYes	<u>✓</u> No
					Wetland ID	
Indicate the dominant type and Rooted emergent			d record the d Rooted subme		tina Free floatina	
Floating algae			Attached alga	<u> </u>		
			-			
		Information	listed on this form re	presents the d	lata collected in 2015. The st	ream was revisited
					nnel and OHWM was confirm	
MACROINVER	RTEBRATES	s [
OR OTHER WILDLIFE						
OBSERVED/C						
NOTES	NO AND					
		1				

Stream ID S-H113



Photograph Direction South

Date: 05/06/2015

Comments: 2015 stream identification.



Photograph Direction South

Date: 10/10/2019

STREAM ID S-H110	STREAM NAME UNT to Houston Run			
LAT 38.587043 LONG -80.509727	DATE 05/05/2015			
CLIENT MVP	PROJECT NAME MVP			
INVESTIGATORS A. Grech, S. Kelly, M. Whitten				
FLOW REGIME Perennial — Intermittent— Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓			

FLOW REGIN Perennial —	1E <u>Intermitte</u>	nt <u> Ephe</u> me	eral <u>✓ WATER TY</u> I	PE <u>RPW</u>	NRPW <u></u> ✓	
			•			
			Measurements "	· · · · · · · · · · · · · · · · · · ·	Stream Erosion	
		Top of Bank Width: 3.0 ft			None Moderate	Heavy
		Top of Ban	k Height:		Artificial, Modified or Char	nnelized
		LB <u>6.0</u>	in RB <u>6.0</u>		<u>√</u> YesNo	
CHANNEL FE	ATURES	Water Dept	th: <u>0.00 in</u>		Dom Dropont Vac	(No
		Water Widt	h: <u>0.0 ft</u>		Dam PresentYes	<u>/</u> NO
		High Water	Mark: <u>6.0 in</u>		Sinuosity _/ Low	Medium High
		Flow Direct	tion: South		Gradient	
					Flat✓ Moderate	Severe
		W-4. D	4		. ,	(10 ft/100 ft)
		Water Pres	sent r, stream bed dry		Proportion of Reach Representation Morphology Types	esented by Stream
			ped moist		Riffle 100 % Run	%
FLOW		Standing	g water		Pool %	
CHARACTER	ISTICS	Flowing	water		Turbidity	
		Velocity			ClearSlightly	turbidTurbid
		•	Moderate		OpaqueStained	
		Slow			Other	
INOR	INORGANIC SUBSTRATE COMP			_	RGANIC SUBSTRATE CON	
Out to t	(should a	add up to 10	, .		does not necessarily add u	1
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		4.6		Detritus	sticks, wood, coarse	
Boulder		mm (10")			plant materials (CPOM)	20
Croyol		m (2.5"-10")		Muck-Mud	black, very fine organic (FPOM)	
Gravel		(0.1"-2.5")	05		(i i Oivi)	
Sand Silt		nm (gritty) 0.06 mm	95	Marl	grey, shell fragments	
Clay		nm (slick)	5	IVIGIT	grey, shell flagifields	
Jiuy	1 0.0041	, ,	lant Surrounding Lan	duse	Indicate the dominant type	(Check one)
		✓ Forest Commercial			✓ Trees Shrub	s
		Field/Pasture Industrial			GrassesHerba	iceous
WATERSHED		Agricultural Residential Other: Road		ual	Floodplain Width	
FEATURES		<u>✓</u> Otner: Road			Wide > 30ft Moderate 15-30ft	
		Canopy Cover			✓ Narrow <16ft	
		Partly openPartly shaded Shaded Open			Wetland PresentYes	_✓_No
_			Open		Wetland ID	_ _
_					Iominant species present	ting Fronting
AQUATIC VEGETATION		Rooted	_	Rooted subme Attached algae		tingFree floating
				assa aiga	-	
		l. f	Patrid and P. C.		-t Wtt : 0045 T' : :	
				•	ata collected in 2015. The st nnel and OHWM was confirm	
MACROINVER	RTEBRATES					
OR OTHER WILDLIFE						
OBSERVED/C						
OBSERVATIO NOTES	UNA GNU					

Stream ID S-H110



Photograph Direction NE

Date: 05/05/2015

Comments: 2015 stream identification.



Photograph Direction SW

Date: 10/10/2019

STREAM ID S-T29	STREAM NAME Houston Run
LAT 38.587711 LONG -80.528294	DATE 06/18/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS JH, LM, JK	
FLOW REGIME Perennial ✓ Intermittent Ephemeral	WATER TYPE TNW — RPW ✓ NRPW —

i cicilliai =	_ 11110111111111	nt <u> — Epnem</u>	erai INVV —	RPW -	NRPW —	
	-					
Top of Bank Width: 30.0 ft			Stream ErosionNone ✓ Moderate	Heavy		
		Top of Bank Height:				ricavy
			-	CL.	Artificial, Modified or Char	nnelized
		LB <u>3.0</u>		<u>ft</u> .	Yes _ ✓ No	
CHANNEL FE	ATURES	Water Dept	th: <u>5.00 in</u>		Dam PresentYes	∠ No
		Water Widt	h: 15.0 ft			
		High Water	Mark: <u>18.0 in</u>		Sinuosity ✓ Low	Medium High
		Flow Direct	tion: North		Gradient	
					Flat Moderate	
		Motor Duce			` ,	,
		Water Pres No wate	senτ r, stream bed dry		Proportion of Reach Repre Morphology Types	esented by Stream
		Stream I			Riffle 90 % Run 0	%
FLOW		Standing	g water		Pool 10 %	
CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	turbidTurbid
			Moderate		OpaqueStained	
		Slow			Other	
INOR		STRATE CO			RGANIC SUBSTRATE COM does not necessarily add u	
Substrate	(Siloulu a	add up to 10	% Composition in	Substrate	loes not necessarily add d	% Composition in
Type	Diame	ter	Sampling Reach	Type	Characteristic	Sampling Area
Bedrock			10	Detritus	sticks, wood, coarse	
Boulder		mm (10")	30	Dounted	plant materials (CPOM)	5
Cobble	64-256 mm (2.5"-10")		30	Muck-Mud	black, very fine organic	15
Gravel	2-64 mm	1 (0.1"-2.5")	20		(FPOM)	15
Sand		nm (gritty)	10			0
Silt		0.06 mm	0	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick) 0		-		
Predominant Surrounding Lar ✓ Forest Commer			iduse	Indicate the dominant type ✓ Trees Shrub		
		Field/Pa				iceous
		AgriculturalResident		tial	_	
WATERSHED FEATURES		Other:		Floodplain Width ✓ Wide > 30ft Moderate 15-30ft		rate 15-30ft
		Canony Co	over		Narrow <16ft	
		Canopy Cover ✓ Partly open Partly sh		aded Wetland PresentYes _✓_No		
		Shaded	Open		Wetland PresentYes Wetland ID	_✓_No
		Indicate th	e dominant type and	d record the d	Iominant species present	
			Rooted subme		tingFree floating	
		Floating	g algae	Attached algae	e	
		Information	listed on this form re	presents the d	ata collected in 2015. The st	ream was revisited
		on 10/10/20	019. The presence of	a stream chan	nnel and OHWM was confirm	ied.
MACROINVER OR OTHER	RTEBRATES					
WILDLIFE	THER					
OBSERVED/C						
NOTES						
		1				



Photograph Direction North

Date: 06/18/2015

Comments: 2015 stream identification.



Photograph Direction SE

Date: 10/10/2019

STREAM ID S-A83/A91	STREAM NAME UNT to Camp Creek
LAT 38.557403 LONG -80.540035	DATE 05/03/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS Cook, Heule, Lew	
FLOW REGIME Perennial / Intermittent _ Ephemeral	WATER TYPE TNW RPW ✓ NRPW

		nt <u> </u>	eral INVV	RPW <u> </u>	NRPW	
		Estimato N	/leasurements		Stream Erosion	
		Top of Bank Width: 30.0 ft			<u>✓ None</u> Moderate	Heavy
		Top of Bank Height:				
					Artificial, Modified or Chan Yes _∠ No	inelized
			th: 3.00 in			
CHANNEL FE	ATURES	Water Widt			Dam PresentYes	<u>∕</u> No
			Mark: 15.0 in		Sinuosity Low	Medium High
		0	tion: Southwest			<u> </u>
		Flow Direct	lion. <u>Southwest</u>		Gradient Flat _✓ Moderate _	Severe
						(10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	sented by Stream
			r, stream bed dry bed moist		Morphology Types Riffle 45 % Run 40	%
		Standing			Pool 15 %	,,
FLOW CHARACTER	ISTICS	Flowing	•			
		Valasitu.			Turbidity <u>✓</u> ClearSlightly to	turbidTurbid
		Velocity Fast	✓ Moderate		Opaque Stained	
		Slow			Other	
INOR		SSTRATE COMPONENTS		_	ORGANIC SUBSTRATE COMPONENTS	
	(should a	add up to 10	,	•	loes not necessarily add up	,
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")	30		plant materials (CPOM)	
Cobble		m (2.5"-10")	40	Muck-Mud	black, very fine organic	
Gravel		(0.1"-2.5")	30		(FPOM)	
Sand Silt		nm (gritty) 0.06 mm		Marl	grov, shall fragments	
Clay		mm (slick)		IVIAII	grey, shell fragments	
Clay	10.0041		l ant Surrounding Lan	lduse	Indicate the dominant type	(Check one)
		<u>✓</u> Forest	Commer		✓ Trees Shrub	
		Field/Pasture Industrial			Grasses Herba	ceous
WATERSHED		Agricult Other:	tural Resident	tial	Floodplain Width	
FEATURES		Canopy Cover		Wide > 30ft ✓ Moderate 15-30ft Narrow <16ft		ate 15-30ft
		<u>✓</u> Partly o	: — ·	aded	Wetland PresentYes	<u>✓</u> No
		— Wetland ID				
AQUATIC VEGETATION		Indicate the dominant type and record the dominant species present				
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating Floating algae Attached algae				
		Information	listed on this form re	presents the d	ata collected in 2015. The str	eam was revisited
				•	nel and OHWM was confirmed	
MACROINVER	RTEBRATES					
OR OTHER WILDLIFE						
OBSERVED/C						
NOTES						

Stream ID S-A83/A91



Photograph Direction NE

Date: 05/03/2015

Comments: 2015 stream identification.



Photograph Direction SW

Date: 10/08/2019

STREAM ID S-A93	STREAM NAME UNT to Camp Creek
LAT 38.556526 LONG -80.535378	DATE 05/03/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS Cook, Heule, Lew	
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW NRPW_

		•	•				
			fleasurements k Width: 8.0 ft		Stream Erosion None Moderate	Heavy	
		Top of Ban				•	
		LB <u>17.0</u>	· ·	in	Artificial, Modified or Char	nnelized	
				<u></u>	Yes <u></u> ✓No		
CHANNEL FE	ATURES	·	th: 0.50 ft		Dam PresentYes _	✓ No	
		Water Widt			_ _	<u> </u>	
		ŭ	Mark: <u>5.0 in</u>		Sinuosity <u>v</u> Low	iviedium High	
		Flow Direct	tion: Northwest		Gradient		
						✓ Severe (10 ft/100 ft)	
		Water Pres			Proportion of Reach Repre	esented by Stream	
			r, stream bed dry oed moist		Morphology Types Riffle 20 % Run 40	%	
		✓ Standing			Pool 40 %	70	
FLOW CHARACTER	ISTICS	Flowing					
					Turbidity <u>✓</u> ClearSlightly	turbidTurbid	
		Velocity Fast	Moderate		OpaqueStained		
		Slow			Other		
INOR	GANIC SUB	SSTRATE COMPONENTS		0	ORGANIC SUBSTRATE COMPONENTS		
	(should	add up to 10	0%)	(0	does not necessarily add u	p to 100%)	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder		mm (10")		Detritus	plant materials (CPOM)	20	
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic		
Gravel		1 (0.1"-2.5")	30		(FPOM)		
Sand		nm (gritty)	40				
Silt		0.06 mm	30	Marl	grey, shell fragments		
Clay	< 0.004	mm (slick)					
		✓ Forest	ant Surrounding Lan Commer		Indicate the dominant type ✓ Trees Shrub		
		Field/Pa			Grasses Herba		
MATEROLIER		Agricult	ural Resident	ial	Floodplain Width		
WATERSHED FEATURES		Other:				rate 15-30ft	
		Canopy Co	over		✓ Narrow <16ft		
		<u>✓</u> Partly c	penPartly sh	aded	Wetland PresentYes	√ No	
		Shaded	Open		Wetland ID	<u>✓</u> No	
					dominant species present		
AQUATIC VEGETATION		— Rooted		Rooted subme Attached alga		ingFree floating	
				aon ca aiga			
			P 4 1 41 4				
Information listed on this form represents the data collected in 2015. The stream was revisited							

MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Information listed on this form represents the data collected in 2015. The stream was revisited on 10/09/2019. The presence of a stream channel and OHWM was unable to be confirmed because of construction activities within the LOD.



Photograph Direction NW

Date: 05/03/2015

Comments: 2015 stream identification.



Photograph Direction South

Date: 10/09/2019

STREAM ID S-A92	STREAM NAME UNT to Camp Creek			
LAT 38.556810 LONG -80.536081	DATE 05/03/2015			
CLIENT MVP	PROJECT NAME MVP			
INVESTIGATORS Cook, Heule, Lew				
FLOW REGIME	WATER TYPE			
Perennial Intermittent Ephemeral	TNW RPW NRPW			

Perennial	Intermitte	nt Ephem	eral TNW	RPW	NRPW	
			_			
			Measurements		Stream ErosionNoneModerateHeavy	
			k Width: 13.0 ft		None _v woderate	<u> —</u> пеаvy
		Top of Ban	· ·		Artificial, Modified or Char	nnelized
CHANNEL FEATURES		LB <u>7.0</u>	in RB <u>1.0</u>	<u>ft</u>	Yes No	
		Water Dep	th: 0.00 ft		Dom Brocent Voc	4 No
		Water Widt	h: 0.0 ft		Dam PresentYes _	NO
		High Water	Mark: <u>16.0 in</u>		Sinuosity <u>v</u> Low	Medium High
		Flow Direct	tion: West		Gradient	
					Flat Moderate _	
					(0.5/100 ft (2 ft/100 ft)	
		Water Pres	sent r, stream bed dry		Proportion of Reach Repre Morphology Types	esented by Stream
			ned moist		Riffle % Run 10	0 %
		Standin			Pool %	
FLOW CHARACTER	ISTICS	Flowing	water			
		Valacity			Turbidity ClearSlightly	turbidTurbid
		Velocity Fast	Moderate		OpaqueStained	
		✓ Slow			✓ Other None	
INOR	GANIC SUB	STRATE CO	MPONENTS	0	RGANIC SUBSTRATE COM	/IPONENTS
	(should a	add up to 10	0%)	(c	does not necessarily add u	p to 100%)
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256 ı	mm (10")		Detritus	plant materials (CPOM)	20
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel	2-64 mm	(0.1"-2.5")	35		(FPOM)	
Sand	0.06-2n	nm (gritty)	35			
Silt	0.004-0	0.06 mm	15	Marl	grey, shell fragments	
Clay	< 0.004 r	mm (slick)	15			
			ant Surrounding Lan		Indicate the dominant type ✓ Trees Shrub	
		Forest Commer			Grasses Herba	
		— Agricult		al		.00040
WATERSHED FEATURES		✓ Other: Road			Floodplain Width Wide > 30ft Mode	rato 15 30ft
TEATORES				Wide > 30ft Moderate 15-30 ✓ Narrow <16ft		rate 15-301t
		Canopy Cover <u>✓</u> Partly open Partly sha				
		✓ Partly open — Partly shaded Open			Wetland PresentYes Wetland ID	<u>✓</u> No
		Indicate th	e dominant type and			
AQUATIC VEGETATION		Indicate the dominant type and record the dominant species present Rooted emergentRooted submergent Rooted floating Free floating				
		Floating algaeAttached algae				
		Off road hu	nting trail, currently o	nly moist		-
MACROINVER	RTEBRATES					
OR OTHER WILDLIFE						
OBSERVED/C						
NOTES						



Photograph Direction ESE

Comments:

STREAM NAME Lower Laurel Fork
DATE 05/03/2015
PROJECT NAME MVP
en
WATER TYPE TNW RPW ✓ NRPW

Perenniai -	_ Intermitte	nt <u> Ephem</u>	eral TNW	RPW –	NRPW	
		F	4		Otan	
	Estimate Measurements Top of Bank Width: 14.0 ft			Stream Erosion ✓ None Moderate	Heavy	
		Top of Bank Height:				
		•	ŭ		Artificial, Modified or Channelized	
		LB <u>4.0</u>		<u>ft</u>	Yes _ <u>✓</u> No	
CHANNEL FE	ATURES	·	th: 8.00 in		Dam PresentYes _	∠ No
			th: 6.0 ft			
		J	r Mark: <u>2.0 ft</u>		Sinuosity Low	wedium nigh
		Flow Direc	tion: Northwest		Gradient	0
						Severe (10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	esented by Stream
			r, stream bed dry		Morphology Types	•
		Stream Standin			Riffle 30 % Run 50 Pool 20 %	%
FLOW CHARACTER	ISTICS	— Standing ✓ Flowing	•		70	
CHARACTER	131103				Turbidity	لمنطسية
		Velocity Fast	<u>✓</u> Moderate		✓ Clear — Slightly — Opaque — Stained	
		Slow	<u> </u>		Other	
INOR	GANIC SUB	SSTRATE COMPONENTS		0	RGANIC SUBSTRATE COM	IPONENTS
		add up to 10		_	does not necessarily add u	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")	20		plant materials (CPOM)	5
Cobble		m (2.5"-10")	65	Muck-Mud	black, very fine organic	
Gravel		(0.1"-2.5")	15		(FPOM)	
Sand		nm (gritty)				
Silt		0.06 mm		Marl	grey, shell fragments	
Clay	< 0.004 1	mm (slick)	ant Curreunding Lar	duas	Indicate the deminent type	(Ob a alla assa)
		✓ Forest	ant Surrounding Lan Commer		Indicate the dominant type ✓ Trees Shrub	
			astureIndustrial		Grasses Herba	ceous
WATERSHED		Agricultural Residential Other: Canopy Cover Partly open Partly shaded		ial Floodplain Width		
FEATURES					Wide > 30ft Moderate 15-30ft	
					✓ Narrow <16ft	
				aded	Wetland Present _v_Yes	No
					Wetland ID w-H67	
		Indicate the dominant type and record the dominant species present				
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating Floating algae Attached algae				
				macricu aiyat	<u> </u>	
MACROINVERTEBRATES						
OR OTHER WILDLIFE						
OBSERVED/C						
OBSERVATIO NOTES	UNA GNU					



Photograph Direction East

Comments:

STREAM ID S-H105	STREAM NAME UNT to Camp Creek
LAT 38.548872 LONG -80.539883	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Grech, S. Kelly, M. Whitte	en
FLOW REGIME Perennial ✓ Intermittent— Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

Perenniai -	<u> </u>	nt Ephem	eral TNW —	RPW <u>▼</u>	NRPW —	
-						
		1		Stream Erosion None Moderate Heavy		
					V Nonewoderate	rieavy
		Top of Ban	-		Artificial, Modified or Char	nnelized
		LB <u>8.0</u>		<u>in</u>	✓ YesNo	
CHANNEL FE	ATURES	·	th: 3.00 in		Dam PresentYes	/ No
		Water Widt	th: 2.0 ft			
			Mark: <u>8.0 in</u>		Sinuosity Low _✓	Medium High
		Flow Direct	tion: West		Gradient	
					Flat Moderate (0.5/100 ft	Severe
		Water Pres	cont		Proportion of Reach Repre	,
			r, stream bed dry		Morphology Types	ssented by Stream
		Stream I	bed moist		Riffle 55 % Run 40	%
FLOW		— Standing	-		Pool 5 %	
CHARACTER	ISTICS	✓ Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	
			✓ Moderate		OpaqueStained	
		Slow			Other	
INOR		STRATE CO add up to 10	MPONENTS 0%)	_	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)	
Substrate	Diame		% Composition in	Substrate	Characteristic	% Composition in
Type	2.0		Sampling Reach	Туре		Sampling Area
Bedrock Boulder	> 256	mm (10")		Detritus	sticks, wood, coarse plant materials (CPOM)	10
Cobble	64-256 m	m (2.5"-10")	5	Music Mud	black, very fine organic	
Gravel	2-64 mm	(0.1"-2.5")	20	Muck-Mud	(FPOM)	20
Sand	0.06-2n	nm (gritty)	60			
Silt	0.004-0	0.06 mm	15	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)				
			ant Surrounding Lan	iduse	Indicate the dominant type	
		✓ Forest	Commer asture Industrial		Trees Shrub Grasses Herba	
		Agricultural Resident		ial		
WATERSHED FEATURES		Other:	_	Floodplain Width Wide > 30ft Moderate 15-30ft		rate 15-30ft
						rate to con
		Canopy Co ✓ Partly o		naded		
		ShadedOpen			Wetland Present ✓ Yes Wetland ID WH65,66	No
		Indicate th	e dominant type and	d record the d	Iominant species present	
AQUATIC VE	GETATION	Rooted	l emergent	Rooted subme	ergentRooted float	tingFree floating
		Floating algae Attached algae				
					ata collected in 2015. The st	
			019. The presence of	a stream chan	inel and OHWM was confirm	ed.
MACROINVER OR OTHER	KIEBRATES					
WILDLIFE OBSERVED/C	THER					
OBSERVATIO						
NOTES						



Photograph Direction West

Date: 05/02/2015

Comments: 2015 stream identification.



Photograph Direction West

Date: 10/08/2019

STREAM ID S-H107	STREAM NAME UNT to Camp Creek
LAT 38.548459 LONG -80.540022	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Grech, S. Kelly, M. Whitte	en
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

Perenniai _	<u> </u>	nt <u>*</u> Ephem	eral TNW	RPW <u>*</u>	NRPW	
	1	Father 4	A		Otmanus Francisco	
			/leasurements k Width: <u>1.5</u> ft		Stream Erosion None Moderate Heavy	
		Top of Bank Height:				
		LB <u>6.0</u>	-	in	Artificial, Modified or Channelized	
				<u>""</u>	Yes _ _ _No	
CHANNEL FE	ATURES	· ·	th: <u>0.50 in</u>		Dam PresentYes	<u>∕</u> No
		Water Widt			Sinuosity ✓ Low	Medium High
			Mark: 3.0 in		Siliuosity V Low	. Wedidiii riigii
		Flow Direct	tion: Northwest		Gradient	/ Causana
					Flat Moderate (0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	esented by Stream
			r, stream bed dry		Morphology Types Riffle 90 % Run	%
		Stream I			Riffle 90 % Run Pool 10 %	70
FLOW CHARACTER	ISTICS	✓ Flowing	-		70 70	
O I A I A I A	.555	_ `			Turbidity Clear✓_Slightly	turbidTurbid
		Velocity Fast	Moderate		OpaqueStained	
		✓ Slow			Other	
INOR	GANIC SUB	STRATE CO	MPONENTS	0	RGANIC SUBSTRATE COM	//PONENTS
		add up to 10		(0	does not necessarily add u	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")	1		plant materials (CPOM)	20
Cobble		m (2.5"-10")	5	Muck-Mud	black, very fine organic	10
Gravel		1 (0.1"-2.5")	10		(FPOM)	1.0
Sand Silt		nm (gritty)	35	Morl	grov shall fragments	
Clay		0.06 mm mm (slick)	30 20	Marl	grey, shell fragments	
Clay	V 0.004		<u> </u>	ndusa	Indicate the dominant type	(Check one)
		Predominant Surrounding Land ✓ Forest Commerci		cial	Trees Shrub	
			astureIndustria		Grasses Herba	iceous
WATERSHED		Agricultural Residential		tial	Floodplain Width	
FEATURES		Other:			Wide > 30ft Mode	rate 15-30ft
		Canopy Cover			✓ Narrow <16ft	
		Partly openPartly shaded			Wetland PresentYes	<u>√</u> No
		_			Wetland ID	
AOHATIC VE	CETATION			d record the o	lominant species present ergent Rooted float	ting Free floating
AQUATIC VEGETATION			· —	Attached alga	_	gi ree noaung
]			<u> </u>	, J-		
		Information	listed on this form re	nresents the d	ata collected in 2015. The st	ream was revisited
					nnel and OHWM was confirm	
MACROINVER	RTEBRATES	5				
OR OTHER WILDLIFE						
OBSERVED/C OBSERVATION						
NOTES	= -					
ĺ		1				



Photograph Direction West

Date: 05/02/2015

Comments: 2015 stream identification.



Photograph Direction North

Date: 10/08/2019

STREAM ID S-H104	STREAM NAME Camp Creek
LAT 38.548077 LONG -80.540454	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Grech, S. Kelly, M. Whitte	en
FLOW REGIME Perennial ✓ Intermittent Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —

Perenniai -	<u> </u>	nt Ephem	eral TNW —	RPW <u>▼</u>	NRPW —	
4						
				Stream ErosionNone _✓ ModerateHeavy		
		Top of Bank Width: 15.0 ft			None _v Noderate	Tleavy
		Top of Ban	_		Artificial, Modified or Char	nnelized
			ft RB <u>5.0</u>	<u>tt</u>	Yes _ <u>✓</u> No	
CHANNEL FE	ATURES	·	th: 10.00 in		Dam PresentYes _,	✓ No
		Water Widt	h: 10.0 ft			
		High Water	Mark: 30.0 in		Sinuosity Low _✓	Medium High
		Flow Direct	tion: Northeast		Gradient	
					Flat Moderate (2 ft/100 ft)	
		Water Pres	cont		Proportion of Reach Repre	
			r, stream bed dry		Morphology Types	•
		Stream I	oed moist		Riffle 30 % Run 35	%
FLOW		— Standing	-		Pool 35 %	
CHARACTER	ISTICS	✓ Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	
			✓ Moderate		OpaqueStained	
		Slow		1	Other	
INOR		STRATE CO add up to 10	MPONENTS		RGANIC SUBSTRATE COM does not necessarily add u	
Substrate	`		% Composition in	· `	1	% Composition in
Туре	Diame	ter	Sampling Reach			Sampling Area
Bedrock			25	Detritus	sticks, wood, coarse	
Boulder		mm (10")	10	Detritus	plant materials (CPOM)	5
Cobble	64-256 m	m (2.5"-10")	45	Muck-Mud	black, very fine organic	
Gravel	2-64 mm	(0.1"-2.5")	10		(FPOM)	
Sand		nm (gritty)	10			
Silt		0.06 mm		Marl	grey, shell fragments	
Clay	< 0.004 i	mm (slick)				
		Predominant Surrounding Land Forest Commerce		iduse rcial	Indicate the dominant type Trees Shrub	
			astureIndustria		GrassesHerba	
		Agricult	tural Residen	tial	Elecatricis Width	
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Mode	rate 15-30ft
		Canopy CoverPartly openPartly sha			✓ Narrow <16ft	
				naded Wetland PresentYesN		No
		ShadedOpen			Wetland ID wares	NO
					lominant species present	
AQUATIC VEGETATIONRoo			_	Rooted subme	_	tingFree floating
Floating algaeA			Attached algae	e 		
		1				
MACROINVERTEBRATES OR OTHER					ata collected in 2015. The st nnel and OHWM was confirm	
			ora. The presence of	a Siream Chan	inei and Onvivi was commi	leu.
WILDLIFE OBSERVED/C						
OBSERVATION NOTES	NS AND					



Photograph Direction NE

Date: 05/02/2015

Comments: 2015 stream identification.



Photograph Direction SW

Date: 10/08/2019

STREAM ID S-H103	STREAM NAME UNT to Camp Creek
LAT 38.545950 LONG -80.542838	DATE 05/01/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Grech, S. Kelly, M. Whitte	en
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —

Perennial _	Intermitte	nt <u> </u>	eral TNW	RPW <u>✓</u>	NRPW	
	1		leasurements		Stream Erosion	
		Top of Ban	k Width: 4.0 ft		None✓ Moderate	Heavy
		Top of Ban	k Height:		Artificial, Modified or Char	nnolizad
		LB 6.0	in RB <u>6.0</u>	in	Yes ✓ No	menzea
CHANNEL FE	ATUDES	Water Dept	h: 0.50 in		<u> </u>	
CHANNEL FE	ATURES	Water Widt			Dam PresentYes	<u>/_</u> No
			Mark: 6.0 in		Sinuosity ✓ Low	Medium High
		Ū				
		Flow Direct	ion: Northeast		Gradient	(0
						✓ Severe (10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	,
			r, stream bed dry		Morphology Types	-
			ped moist		Riffle 55 % Run 0	%
FLOW		Standing	•		Pool 45 %	
CHARACTER	ISTICS	<u>√</u> Flowing	water		Turbidity	
		Velocity			ClearSlightly	
			Moderate		OpaqueStained	
		✓ Slow	<u>✓</u> Slow		Other	
INOR		STRATE CO		_	RGANIC SUBSTRATE CON	
	(should a	add up to 100			does not necessarily add u	1
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")	5	Botilido	plant materials (CPOM)	20
Cobble	64-256 m	m (2.5"-10")	20	Muck-Mud	black, very fine organic	
Gravel	2-64 mm	1 (0.1"-2.5")	30	Maok Maa	(FPOM)	
Sand	0.06-2n	nm (gritty)	15		grey, shell fragments	
Silt	0.004-0	0.06 mm	15	Marl		
Clay	< 0.004	mm (slick)	15			
	,		int Surrounding Lan	nduse	Indicate the dominant type	
		✓ Forest Field/Pa	Commer		✓ Trees Shrub Grasses Herba	os Iceous
		Agricult		tial		ccous
WATERSHED FEATURES		Other:	_		Floodplain Width Wide > 30ft Mode	rate 15-30ft
TEATORES					Narrow <16ft	ale 15-3011
		Canopy Co				
		Partly open			Wetland Present <u>√</u> Yes Wetland ID w4456	No
		Indicate th	e dominant type and	d record the c	Iominant species present	
AQUATIC VEGETATION				Rooted subme		tingFree floating
Floating alga		g algae	Attached algae	e		
		Information	listed on this form re	presents the d	ata collected in 2015. The st	ream was revisited
MACROINVERTEBRATES OR OTHER WILDLIFE		on 11/25/20)19. The presence of	a stream char	nnel and OHWM was confirm	ed.
OBSERVED/C						
NOTES	= 					



Photograph Direction SW

Date: 05/01/2015

Comments: 2015 stream identification.



Photograph Direction NE

Date: 11/25/2019

STREAM ID S-B34	STREAM NAME Amos Run
LAT 38.493734 LONG -80.561286	DATE 05/01/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS e. Foster, k. Lamontagne	
FLOW REGIME Perennial ✓ Intermittent— Ephemeral—	WATER TYPE TNW — RPW ✓ NRPW —

Perenniai -	<u> </u>	nt <u> — Ephem</u>	eral TNW —	RPW <u>▼</u>	NRPW —	
			Measurements		Stream Erosion	Цооли
		·		✓ NoneModerate	пеачу	
		Top of Ban	•		Artificial, Modified or Char	nnelized
		LB <u>4.0</u>		<u>ft</u> .	YesNo	
CHANNEL FE	ATURES	Water Dept	th: 2.00 ft		Dam PresentYes _	/ No
		Water Widt	h: 25.0 ft			<u>/_</u> 140
		High Water	Mark: <u>2.5 ft</u>		Sinuosity Low _✓	Medium High
		Flow Direct	tion: Northwest		Gradient	
					✓ FlatModerate	
		14/ 4 B				(10 ft/100 ft)
		Water Pres	sent r, stream bed dry		Proportion of Reach Repre Morphology Types	esented by Stream
		Stream l			Riffle 25 % Run 75	%
FLOW		Standing			Pool %	
CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	turbidTurbid
			Moderate		OpaqueStained	
		Slow			Other	
INOR			MPONENTS		RGANIC SUBSTRATE COM	
	(should a	add up to 10	, '	,	does not necessarily add u	<u>, </u>
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		20111110	plant materials (CPOM)	5
Cobble		m (2.5"-10")	80	Muck-Mud	black, very fine organic	
Gravel		1 (0.1"-2.5")	10		(FPOM)	
Sand		nm (gritty)	5			
Silt		0.06 mm	5	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	1.0			
		Predominant Surrounding Land ✓ Forest Commerce			Indicate the dominant type ✓ Trees Shrub	
		_	astureIndustrial		Grasses Herba	
WATEROUER		Agricult	tural Residen	tial	Floodplain Width	
WATERSHED FEATURES		Other:			✓ Wide > 30ft Mode	rate 15-30ft
		Canopy Cover			Narrow <16ft	
		_✓ Partly o	ppenPartly sh	aded	Wetland Present Yes	/ No
		Shaded Open			Wetland ID	<u>▼</u> NO
		Indicate th	e dominant type and	d record the d	Iominant species present	
AQUATIC VE	GETATION	Rooted emergentRooted submergentRooted floatingFree floating				
Floating algae		Attached algae	e			
		1				
					ata collected in 2015. The st	
			019. The presence of	a stream chan	nnel and OHWM was confirm	ied.
MACROINVER OR OTHER	KIEBRATES	1				
WILDLIFE OBSERVED/C	THER					
OBSERVATIO						
NOTES						
		1				



Photograph Direction SE

Date: 05/01/2015

Comments: 2015 stream identification.



Photograph Direction SE

Date: 10/07/2019

STREAM ID S-B35	STREAM NAME UNT to Amos Run
LAT 38.493950 LONG -80.560824	DATE 05/01/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS E. Foster, K. Lamontagne, C	C. Ansari
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

Perennial — Intermittent ✓ E		nt <u></u> Epheme	eral TNW	RPW <u>✓</u>	NRPW	
		Estimate N	leasurements		Stream Erosion	
		Top of Banl	k Width: 2.0 ft		✓ NoneModerate	Heavy
		Top of Banl	k Height:		Artificial, Modified or Chai	nnolizod
		LB 1.0	ft RB <u>1.5</u>	ft	Yes ✓ No	menzeu
		Water Dept	h: <u>4.00 in</u>	_	<u> </u>	
CHANNEL FE	ATURES	Water Widt			Dam PresentYes	<u>∕</u> No
					Sinuosity Low ✓	Medium High
		Ŭ	Mark: 8.0 in		<u> </u>	WicdianiTiligii
		Flow Direct	ion: Southwest		Gradient	0
					✓ Flat Moderate (2 ft/100 ft)	Severe (10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	,
			r, stream bed dry		Morphology Types	-
		_	ped moist		Riffle % Run 75	%
FLOW		Standing	•		Pool 25 %	
CHARACTER	ISTICS	<u>√</u> Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	
			✓ Moderate		OpaqueStained	
		Slow			Other	
INOR		STRATE CO		_	RGANIC SUBSTRATE COM	
	(should a	add up to 100		1	does not necessarily add u	1
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")		Boundo	plant materials (CPOM)	75
Cobble		m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel	2-64 mm	า (0.1"-2.5")			(FPOM)	
Sand	0.06-2n	nm (gritty)	80			
Silt		0.06 mm	20	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)				
		Predomina ✓ Forest	int Surrounding Lar Comme		Indicate the dominant type ✓ Trees Shrub	
		Field/Pa			- -	aceous
		Agricult		tial		100000
WATERSHED FEATURES		Other:	_		Floodplain Width Wide > 30ft Mode	rate 15-30ft
TEATORES					Narrow <16ft	Tate 15-50it
		Canopy Co Partly o		aded		
		✓ Shaded — Open Wetland ID Wetland ID			No	
Ind		Indicate th	e dominant type an	d record the c	dominant species present	
AQUATIC VEGETATION		✓ Rooted	emergent	Rooted subme		tingFree floating
Floating alga-		g algae	Attached alga	е		
MACROINVERTEBRATES OR OTHER WILDLIFE					ata collected in 2015. The st	
		on 10/08/20)19. The presence of	a stream char	nnel and OHWM was confirm	ed.
		5				
OBSERVED/C						
NOTES						
		1				



Photograph Direction SW

Date: 05/01/2015

Comments: 2015 stream identification.



Photograph Direction NE

Date: 10/08/2019

STREAM ID S-B36	STREAM NAME UNT to Amos Run
LAT 38.493846 LONG -80.560687	DATE 05/01/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS E. Foster, K. Lamontagne, C	C. Ansari
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓

Perennial _	Intermitte	nt Epheme	eral <u>TNW</u>	RPW —	NRPW <u></u> ✓		
			Measurements		Stream Erosion	Lloo: " ·	
			k Width: 2.0 ft		✓ NoneModerate	неаvy	
CHANNEL FEATURES		Top of Ban	_		Artificial, Modified or Char	nnelized	
		LB <u>18.0</u>	in RB <u>18.0</u>	<u>in</u>	Yes _ <u>✓</u> No		
		Water Dept	th: 0.00 in		Dam PresentYes	/ No	
		Water Widt	h: 0.0 ft		Dalli Flesellt 165 _	<u>/ </u>	
		High Water	Mark: <u>0.0 ft</u>		Sinuosity ✓ Low ✓	Medium High	
		Flow Direct	tion: West		Gradient		
					✓ FlatModerate _	Severe	
		W-4 D			`	(10 ft/100 ft)	
		Water Pres No wate	senτ r, stream bed dry		Proportion of Reach Repre Morphology Types	esented by Stream	
		✓ Stream I	•		Riffle % Run	%	
FLOW		Standing	-		Pool %		
CHARACTER	ISTICS	Flowing	water		Turbidity		
		Velocity			ClearSlightly	turbidTurbid	
		Fast	Moderate		OpaqueStained		
		Slow			Other		
INOR	INORGANIC SUBSTRATE CO (should add up to 1)			_	RGANIC SUBSTRATE CON does not necessarily add u		
Substrate	,	-	% Composition in		1	% Composition in	
Туре	Diame	ter	Sampling Reach		Characteristic	Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	100	
Cobble		m (2.5"-10")		Muck-Mud	black, very fine organic		
Gravel		(0.1"-2.5")			(FPOM)		
Sand		nm (gritty)	40				
Silt		0.06 mm	60	Marl	grey, shell fragments		
Clay	< 0.004 i	nm (slick)			In dia station of a selection of the sec	(6)	
		✓ Forest	ant Surrounding Lan Commer		Indicate the dominant type ✓ Trees Shrub		
		Field/Pa				iceous	
WATERCHER		Agricult	tural Resident	tial	Floodplain Width		
WATERSHED FEATURES		Other:			Wide > 30ft Moderate 15-30ft		
		Canopy Co	over	✓ Narrow <16ft added Wetland Present Yes ✓ No			
		Partly o	penPartly sh			√ No	
		✓ Shaded Open			Wetland ID	<u>v</u> No	
					lominant species present		
AQUATIC VEGETATION			· —	Rooted subme	<u> </u>	tingFree floating	
		Floating algaeAttached algae					
		1					
MACROINVERTEBRATES OR OTHER					ata collected in 2015. The stance and OHWM was confirm		
			ore. The produine of	a on oam ona			
WILDLIFE OBSERVED/C							
OBSERVATION NOTES	INS AND						



Photograph Direction East

Date: 05/01/2015

Comments: 2015 stream identification.



Photograph Direction East

Date: 10/08/2019

STREAM ID S-B37	STREAM NAME UNT to Amos Run
LAT 38.493750 LONG -80.560997	DATE 05/01/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS E. Foster, K. Lamontagne, C	C. Ansari
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

Perennial — Intermittent ✓		<u>nt</u> Ephem∈	eral TNW	RPW <u>✓</u>	NRPW —	
			leasurements		Stream Erosion	
			k Width: 2.0 ft		✓ NoneModerate .	Heavy
		Top of Bank	J		Artificial, Modified or Chan	ınelized
		LB <u>0.5</u> f	ft RB <u>0.5</u> 1	<u>ft</u> .	Yes <u></u> ✓ No	
CHANNEL FE	ATURES	Water Dept	th: <u>2.00 in</u>		5 5 Vac	- NI=
· · · · · · · · · · · · · · · · · · ·		Water Width	h: 2.0 ft		Dam PresentYesY	<u>/</u> No
		High Water	Mark: <u>3.0 in</u>		Sinuosity Low	Medium High
İ		Flow Directi			Gradient	
					<u>√</u> Flat Moderate	Severe
						(10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	sented by Stream
			r, stream bed dry		Morphology Types Riffle % Run 75	%
		Stream b			Pool 25 %	70
FLOW CHARACTER	ISTICS	✓ Flowing v	•		20	
CHARACIEN	131103				Turbidity	tumbial Tumbial
		Velocity	/ Madarata		Clear Slightly t Opaque Stained	
		Fast _ Slow	✓ Moderate		Other	
INOE	POANIC SUB	STRATE CO	MDONENTS	0	RGANIC SUBSTRATE COM	IDONENTS
INCIN		add up to 100	0%)	(d	does not necessarily add up	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	l	mm (10")		500	plant materials (CPOM)	10
Cobble	l	ım (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel		n (0.1"-2.5")	50		(FPOM)	
Sand	 	mm (gritty)				
Silt		0.06 mm	50	Marl	grey, shell fragments	
Clay	< 0.004 r	mm (slick)	<u> </u>	_		<u> </u>
		Predomina ✓ Forest	ant Surrounding Lan Commer	iduse rcial	Indicate the dominant type ✓ Trees Shrubs	
		Field/Pa			Grasses — Siliub	
	1	Agricult		tial	_	
WATERSHED FEATURES	1	Other:			Floodplain Width Wide > 30ft Moder	rate 15-30ft
1 =		Canany Co			✓ Narrow <16ft	ate to con
		Canopy Co Partly o		aded	_	
		✓ Shaded			Wetland Present _✓ Yes Wetland ID W-B35	No
		Indicate th	e dominant type and		dominant species present	
AQUATIC VE	GETATION	✓ Rooted	emergent	Rooted subme	ergentRooted float	ingFree floating
Floa		Floating	ي algae	Attached algae	e	
MACROINVERTEBRATES OR OTHER		on 10/08/20			ata collected in 2015. The str nnel and OHWM was confirme	
WILDLIFE	**************************************					
OBSERVED/C						
NOTES						
1						
1						



Photograph Direction East

Date: 05/01/2015

Comments: 2015 stream identification.



Photograph Direction North

Date: 10/08/2019

STREAM ID S-B38	STREAM NAME UNT to Amos Run					
LAT 38.493721 LONG -80.560849	DATE 05/01/2015					
CLIENT MVP	PROJECT NAME MVP					
INVESTIGATORS E. Foster, K. Lamontagne, C. Ansari						
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓					

Perennial _	Intermitte	nt Ephem	eral ✓ TNW —	RPW	NRPW <u></u> ✓		
		Estimate Measurements			Stream Erosion		
		Top of Bank Width: 2.0 ft			✓ NoneModerateHeavy		
		Top of Ban	k Height:		Artificial, Modified or Channelized		
CHANNEL FEATURES		LB <u>4.0 in</u> RB <u>6.0 in</u>			Yes ✓ No		
		Water Dep	th: 0.50 in				
		Water Widt			Dam PresentYes✓ No		
		High Water Mark: 3.0 in			Sinuosity ✓ Low ✓ Medium — High		
		-			Thigh		
		Flow Direction: Northwest			Gradient Course		
					✓ FlatModerateSevere (2 ft/100 ft) (10 ft/100 ft)		
		Water Present			Proportion of Reach Represented by Stream		
		No water, stream bed dry			Morphology Types		
		_	oed moist		Riffle % Run 100 %		
FLOW		Standing water			Pool 0 %		
CHARACTERISTICS		Flowing water			Turbidity		
		Velocity			✓ Clear —Slightly turbid —Turbid		
		Fast Moderate			OpaqueStained		
		✓ Slow			Other		
INORGANIC SUBSTRATE		STRATE CO	RATE COMPONENTS O		RGANIC SUBSTRATE COMPONENTS		
	(should a	add up to 10	0%)	(0	does not necessarily add u	p to 100%)	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder	> 256 mm (10")				plant materials (CPOM) 10		
Cobble	64-256 mm (2.5"-10")				black, very fine organic		
Gravel	2-64 mm (0.1"-2.5")		50	Muck-Mud	(FPOM)		
Sand	0.06-2n	nm (gritty)					
Silt	0.004-0.06 mm		50 Marl		grey, shell fragments		
Clay	< 0.004	mm (slick)					
		Predomina ✓ Forest	ant Surrounding Lan	iduse	Indicate the dominant type ✓ Trees Shrub		
		✓ Forest Commercial Field/Pasture Industrial			Grasses Herbaceous		
		Agricultural Residential					
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Moderate 15-30ft		
FEATURES		Canopy Cover			Wide > 30ft Moderate 15-30ft Marrow <16ft		
			over open Partly sh	aded	Transmission		
		✓ Shaded Open		aucu	Wetland Present ✓ YesNo		
		<u> </u>			Wetland ID w-B34		
ACHATIC VE	CETATION	Indicate the dominant type and record the dominant species present ✓ Rooted emergentRooted submergent Rooted floating Free floating					
AQUATIC VEGETATION		Floating algae Attached algae Attached algae					
					-		
		T		,			
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES		Information listed on this form represents the data collected in 2015. The stream was revisited on 10/08/2019. The presence of a stream channel and OHWM was confirmed.					
		· ·					

Stream ID S-B38



Photograph Direction NW

Date: 05/01/2015

Comments: 2015 stream identification.



Photograph Direction SE

Date: 10/08/2019

STREAM ID S-B42	STREAM NAME UNT to Amos Run
LAT 38.493643 LONG -80.560883	DATE 05/01/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS E. Foster, K. Lamontagne, C	C. Ansari
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓

Perennial _		nt Epheme	eral ✓ TNW —		NRPW <u></u> ✓		
			leasurements		Stream Erosion	Usa	
		Top of Bank Width: 2.0 ft		✓ NoneModerate	Heavy		
		Top of Ban	-		Artificial, Modified or Char	nelized	
CHANNEL FEATURES		LB 3.0	in RB <u>3.0</u>	•	Yes _ <u>✓</u> No		
		Water Dept	th: 0.00 in				
		Water Widt	h· 0.0 ft		Dam PresentYes	<u>/_</u> No	
			Mark: 1.0 in		Sinuosity _/ Low _/	Medium High	
			tion: Northwest			– °	
		Flow Direct	IIOII. IVOITIWOSI		Gradient ✓ Flat Moderate _	Severe	
						(10 ft/100 ft)	
		Water Pres	sent		Proportion of Reach Repre	sented by Stream	
			r, stream bed dry		Morphology Types	-	
		✓ Stream b			Riffle % Run	%	
FLOW		Standing	-		Pool %		
CHARACTER	ISTICS	Flowing	walei		Turbidity		
		Velocity			ClearSlightly		
			Moderate		OpaqueStained		
		Slow			Other		
INOR					RGANIC SUBSTRATE COMPONENTS		
	(snould a	add up to 100	,	· ·	loes not necessarily add u	1	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock			- campining reducin	. , , , ,	sticks, wood, coarse		
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	10	
Cobble		m (2.5"-10")			black, very fine organic		
Gravel		(0.1"-2.5")	50	Muck-Mud	(FPOM)		
Sand		nm (gritty)					
Silt		0.06 mm	50	Marl	grey, shell fragments		
Clay	< 0.004 ı	mm (slick)	- 00	1			
,		` '	ant Surrounding Lar	nduse	Indicate the dominant type	(Check one)	
		✓ Forest	Comme	rcial	✓ Trees Shrub	s	
		_	astureIndustria		GrassesHerba	iceous	
WATERSHED		Agricult Other:	tural Residen	tial	Floodplain Width		
FEATURES		Other.			Wide > 30ft Mode	rate 15-30ft	
		Canopy Co	over		✓ Narrow <16ft		
		Partly openPartly shaded			d Wetland Present ✓ Yes No		
		Shaded Open			Wetland ID W-35		
					lominant species present		
AQUATIC VEGETATION			emergent	Rooted subme		tingFree floating	
		Floating algaeAttached algae					
		<u> </u>					
					ata collected in 2015. The st		
			019. The presence of	a stream chan	inel and OHWM was confirm	ed.	
MACROINVER OR OTHER	RTEBRATES						
WILDLIFE	TUED						
OBSERVED/C							
NOTES							
		1					

Stream ID S-B42



Photograph Direction SE

Date: 05/01/2015

Comments: 2015 stream identification.



Photograph Direction SW

Date: 10/08/2019

STREAM ID S-B39B	STREAM NAME UNT to Amos Run
LAT 38.493624 LONG -80.560938	DATE 10/13/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS S. Townsend, A. Hatfield, L.	Sexton
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓

Perennial _		nt Epheme	eral <u>VATER 11</u>	RPW	NRPW <u></u> ✓	
			Measurements		Stream Erosion	
		Top of Ban	k Width: 3.0 in		✓ NoneModerate	Heavy
		Top of Ban	k Height:		Artificial, Modified or Cha	nnelized
		LB 6.0	in RB 6.0	in	Yes ✓ No	illelized
		Water Dent	 th: 0.00 in			
CHANNEL FE	ATURES	·			Dam Present Yes	<u>√</u> No
		Water Widt			Cinuacity / Low	Madium Lligh
		High Water	Mark: <u>0.0 ft</u>		Sinuosity _/ Low	. Medium nign
		Flow Direct	tion: W		Gradient	
					✓ FlatModerate .	Severe
		101 1 5			, , ,	(10 ft/100 ft)
		Water Pres	sent r, stream bed dry		Proportion of Reach Repro Morphology Types	esented by Stream
		✓ Stream b			Riffle % Run	%
		Standing			Pool %	,,
FLOW CHARACTER	ISTICS	Flowing	-			
SHARACIER	101100				Turbidity	4 -
		Velocity			Clear Slightly	
			Moderate		OpaqueStainedOther	
		Slow		1		
INOR		STRATE CO		ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
0.1.1.1	(snoula a	add up to 100			does not necessarily add u	
Substrate Type	Diame	ter	% Composition in Sampling Reach		Characteristic	% Composition in Sampling Area
			Sampling Reach	Туре		Sampling Area
Bedrock	. 050	··- (40II)		Detritus	sticks, wood, coarse plant materials (CPOM)	
Boulder		mm (10")				
Cobble		m (2.5"-10")	r	Muck-Mud	black, very fine organic	
Gravel		1 (0.1"-2.5")	20		(FPOM)	
Sand	0.06-2r	nm (gritty)	30	_		
Silt	0.004-0	0.06 mm	25	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	25			
			ant Surrounding La		Indicate the dominant type	
		✓ Forest		rcial	✓ Trees — Shrub	
			astureIndustria turalResider		Grasses Herba	aceous
WATERSHED		Agricult Other:	.urai Kesidei	illai	Floodplain Width	
FEATURES		00101.			✓ Wide > 30ft Mode	rate 15-30ft
		Canopy Co			Narrow <16ft	
		Partly open Partly sha		naded	Wetland Present ✓ Yes	No
		✓ Shaded Open			Wetland ID Flows into W-B35	
		Indicate th	e dominant type an	d record the c	dominant species present	
AQUATIC VEGETATION			emergent	_Rooted subme		tingFree floating
		Floating algae Attached algae				
		Information	listed on this form re	epresents the d	ata collected in 2015. The st	ream was revisited
					nnel and OHWM was confirm	
MACROINVER	RTEBRATES	; 				
OR OTHER WILDLIFE						
OBSERVED/C						
OBSERVATION NOTES	NS AND					

Stream Photograph Page

Stream ID S-B39B



Photograph Direction East

Date: 10/13/2015

Comments: 2015 stream identification.



Photograph Direction East

Date: 10/07/2019

STREAM ID S-B45	STREAM NAME UNT to Amos Run
LAT 38.493399 LONG -80.560789	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS E. Foster, K. Lamontagne, C	2. Ansari
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓

Perennial _	Intermitte	nt Ephem	eral <u>✓ TNW —</u>	RPW —	NRPW <u></u> ✓		
1		Estimate Measurements			Stream Erosion		
		Top of Bank Width: 3.0 ft			None/ Moderate	Heavy	
CHANNEL FEATURES		Top of Ban	k Height:		Artificial, Modified or Cha	nnelized	
		LB <u>4.0</u>	in RB <u>4.0</u>	<u>in</u>	Yes ✓ No		
		Water Dep	th: 0.00 in				
CHANNEL FE	AIURES	Water Widt			Dam PresentYes	<u>√</u> No	
			Mark: 1.0 in		Sinuosity ✓ Low	Medium High	
		_	tion: Northwest				
		Flow Direct	tion: Horawest		Gradient ✓ FlatModerate	Severe	
					(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)	
		Water Pres	sent		Proportion of Reach Repre	esented by Stream	
			r, stream bed dry		Morphology Types	-	
		<u>√</u> Stream I			Riffle % Run	%	
FLOW		Standing	-		Pool %		
CHARACTER	ISTICS	Flowing	walei		Turbidity		
		Velocity			ClearSlightly		
			Moderate		OpaqueStained		
		Slow			Other		
INOR	INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			_	RGANIC SUBSTRATE COM		
Substrate			% Composition in			% Composition in	
Туре	Diame	eter	Sampling Reach	Туре	Characteristic	Sampling Area	
Bedrock				Dataita	sticks, wood, coarse		
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	50	
Cobble	64-256 m	m (2.5"-10")		Musels Musel	black, very fine organic		
Gravel	2-64 mm	n (0.1"-2.5")	30	Muck-Mud	(FPOM)		
Sand	0.06-2r	nm (gritty)	30				
Silt	0.004-0	0.06 mm	40	Marl	grey, shell fragments		
Clay	< 0.004	mm (slick)					
		Predomina	ant Surrounding Lan	iduse	Indicate the dominant type	(Check one)	
		✓ Forest	Commer		✓ Trees Shrub		
		Field/P			Grasses Herba	aceous	
WATERSHED)	Agricult Other:	tural Residen	uai	Floodplain Width		
FEATURES		001161.			Wide > 30ft Moderate 15-30ft		
		Canopy Co			Narrow <16ft		
		✓ Partly open — Partly shaded		aded	Wetland Present Yes	✓ No	
		ShadedOpen		Wetland ID			
					dominant species present		
AQUATIC VEGETATION			Rooted emergent Rooted submergent Rooted floating Free floating Floating algae Attached algae				
		Floating	g algae	Attached alga	е		
		1					
					lata collected in 2015. The st nnel and OHWM was unable		
MACROINVER	DTERRATES	hannung of	construction activities			to be confinited	
OR OTHER	NIEDKAIES	'					
WILDLIFE OBSERVED/C	THER						
OBSERVATIO							
NOTES							

Stream ID S-B45



Photograph Direction SE

Date: 05/02/2015

Comments: 2015 stream identification.



Photograph Direction SW

Date: 10/07/2019

STREAM ID S-B39A/S-B46	STREAM NAME UNT to Amos Run			
LAT 38.493005 LONG -80.560239	DATE 05/02/2015			
CLIENT MVP	PROJECT NAME MVP			
INVESTIGATORS E. Foster, K. Lamontagne, C	C. Ansari			
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW NRPW <u>✓</u>			

Perennial _	_ Intermitte	nt Ephem	eral TNW	RPW —	NRPW <u> </u>	
			fleasurements k Width: <u>5.0</u> ft		Stream Erosion ✓ NoneModerate	Heavy
		Top of Ban	k Height:		Artificial, Modified or Char	nelized
		LB <u>9.0</u>	in RB <u>9.0</u>	<u>in</u>	Yes ✓ No	menzeu
CHANNEL FE	ATHRES	Water Dep	th: 3.00 in			
CHANNEL FE	ATURES	Water Widt	h: 4.0 ft		Dam PresentYes _	<u>∕</u> No
		High Water	Mark: 4.0 in		Sinuosity <u>v</u> Low	Medium High
		Flow Direct	tion: Northwest		Gradient	
					<u>✓</u> FlatModerate _	
					, , ,	(10 ft/100 ft)
		Water Pres	sent r, stream bed dry		Proportion of Reach Repre Morphology Types	esented by Stream
			ped moist		Riffle 50 % Run 25	%
FLOW		Standing	•		Pool 25 %	
CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	
		Fast	✓ Moderate		OpaqueStained	
		Slow		1	Other	
INORGANIC SUBSTRATE COMP (should add up to 100%)				RGANIC SUBSTRATE CON does not necessarily add u		
Substrate	,		% Composition in			% Composition in
Туре	Diame	eter	Sampling Reach	Туре	Characteristic	Sampling Area
Bedrock			85	Detritus	sticks, wood, coarse	_
Boulder		mm (10")	5		plant materials (CPOM)	5
Cobble		m (2.5"-10")	5	Muck-Mud	black, very fine organic (FPOM)	
Gravel		1 (0.1"-2.5")	5		(I FON)	
Sand Silt		nm (gritty) 0.06 mm		Marl	grey, shell fragments	
Clay		mm (slick)		Iviaii	grey, shell fragilierits	
Olay	10.004	` ′	l ant Surrounding Lar	nduse	Indicate the dominant type	(Check one)
		Forest Commerce			Trees Shrub	S
			astureIndustria		Grasses Herba	ceous
WATERSHED	ı	Agricult Other:	tural Residen	tiai	Floodplain Width	
FEATURES		Other:		Wide > 30ft Modera		rate 15-30ft
		Canopy Cover			✓ Narrow <16ft	
		✓ Partly open — Partly shaded — Shaded — Open		aded	Wetland PresentYes	<u>✓</u> No
					Wetland ID	
AQUATIC VEGETATION			Indicate the dominant type and record the dominant species present Rooted emergent Rooted submergent Rooted floating Free floatin			
				Attached algae	<u> </u>	
	<u> </u>					
Information listed on this form r			presents the d	ata collected in 2015. The st	ream was revisited	
					nnel and OHWM was confirm	
MACROINVEI OR OTHER	RTEBRATES	5				
WILDLIFE OBSERVED/C	TUED					
OBSERVATIO						
NOTES		1				

Stream Photograph Page

Stream ID S-B39A/S-B46



Photograph Direction SE

Date: 05/02/2015

Comments: 2015 stream identification.



Photograph Direction South

Date: 10/07/2019

STREAM ID S-O4	STREAM NAME Lost Run
LAT 38.483013 LONG -80.556312	DATE 06/18/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS Alicia rodrian, Vladimir Prile	oin, scott therkildson
FLOW REGIME Perennial ✓ Intermittent— Ephemeral—	WATER TYPE TNW — RPW ✓ NRPW —

Perenniai 🗅	<u> </u>	nt Ephem	eral TNW —	RPW <u>▼</u>	NRPW —	
4						
				Stream Erosion None ✓ Moderate	Неэм	
					NoneNoderate	Tleavy
		Top of Ban	-		Artificial, Modified or Char	nnelized
		LB <u>8.0</u>		<u>tt</u>	Yes✓ No	
CHANNEL FE	ATURES	Water Dep	th: 8.00 in		Dam PresentYes	/ No
		Water Widt	h: 18.0 ft			
		High Water	Mark: <u>8.0 in</u>		Sinuosity ✓ Low	Medium High
		Flow Direct	tion: South		Gradient	
					✓ FlatModerate	
		Motor Duc				(10 ft/100 ft)
		Water Pres No wate	senτ r, stream bed dry		Proportion of Reach Repre Morphology Types	esented by Stream
		Stream I			Riffle 75 % Run 15	%
FLOW		Standing	-		Pool 10 %	
CHARACTER	ISTICS	✓ Flowing	water		Turbidity	
		Velocity			ClearSlightly	turbidTurbid
		•	Moderate		OpaqueStained	
		Slow			Other	
INOR			MPONENTS	_	RGANIC SUBSTRATE COM	
	(should a	add up to 10	, ,	,	does not necessarily add u	'
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			65	Detritus	sticks, wood, coarse	
Boulder		mm (10")	15	Dounted	plant materials (CPOM)	15
Cobble		m (2.5"-10")	10	Muck-Mud	black, very fine organic	0
Gravel	2-64 mm	(0.1"-2.5")	5		(FPOM)	0
Sand		nm (gritty)	5			10
Silt		0.06 mm	0	Marl	grey, shell fragments	10
Clay	< 0.004	mm (slick)	0			
		Predominant Surrounding Land			Indicate the dominant type ✓ Trees Shrub	
		✓ Forest Commer Field/Pasture Industrial			Grasses Herba	
		Agricult	tural Residen		<u> </u>	
WATERSHED FEATURES		Other:		Floodplain Width Wide > 30ft ✓ Mode		rate 15-30ft
		Canopy Cover			Narrow <16ft	
		Partly of	ppen <u>√</u> Partly sh	aded Wattand Brand Was (No.		. NI
		Shaded Open			Wetland PresentYes Wetland ID	<u>√</u> No
		Indicate th	e dominant type and	d record the d	dominant species present	
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating				
Floating al		g algae	Attached algae	е		
					ata collected in 2015. The st	
			019. The presence of	a stream chan	nnel and OHWM was confirm	ied.
MACROINVER OR OTHER	RTEBRATES					
WILDLIFE OBSERVED/C	THEP					
OBSERVATIO						
NOTES						



Photograph Direction South

Date: 06/18/2015

Comments: 2015 stream identification.



Photograph Direction North

Date: 10/11/2019

STREAM ID S-O5	STREAM NAME UNT to Laurel Creek
LAT 38.482262 LONG -80.555485	DATE 06/18/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS Alicia rodrian, Vladimir Prile	pin, scott therkildson
FLOW REGIME Perennial Intermittent Ephemeral 	WATER TYPE TNW — RPW — NRPW <u>✓</u>

Perennial _	<u> </u>	nt Epheme	eral TNW	RPW	NRPW	
		Estimate Measurements			Stream Erosion	
		Top of Bank Width: 2.0 ft			None Moderate _	Heavy
		Top of Bank Height:			Artificial, Modified or Chan	nolizod
		LB 3.0 f	ft RB <u>8.0 i</u>	<u>in</u>	Yes ✓ No	ilelizea
CHANNEL FE	ATURES		th: 0.50 in		Dam PresentYesv	<u>∕</u> No
		Water Widtl			Sinuosity Low	Modium High
		Ŭ	Mark: <u>1.0 in</u>		Silidosity v Low	Mediaiii riigii
		Flow Direct	tion: Southwest		Gradient	0
					<u>✓</u> Flat Moderate (0.5/100 ft) (2 ft/100 ft) (Severe (10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	sented by Stream
			r, stream bed dry oed moist		Morphology Types Riffle 75 % Run 15	%
		Standing			Pool 10 %	
FLOW CHARACTERI	ISTICS	Flowing v	•			
	-	Valacity			Turbidity <u>✓</u> ClearSlightly t	turbidTurbid
		Velocity ✓ Fast	Moderate		OpaqueStained	
Slow					Other	
INOR	INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)		_	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate	Diame	otor	% Composition in	Substrate	Characteristic	% Composition in
Туре	Diame	itei	Sampling Reach	Туре	Orial acteristic	Sampling Area
Bedrock		(4011)	0	Detritus	sticks, wood, coarse	15
Boulder		mm (10")	15		plant materials (CPOM)	15
Crovol		ım (2.5"-10")	60	Muck-Mud	black, very fine organic (FPOM)	0
Gravel		n (0.1"-2.5")	10		(I I OWI)	
Sand Silt		nm (gritty) 0.06 mm	10	Marl	grey, shell fragments	10
Clay		mm (slick)	10 0	IVIAII	giey, silen nagmente	
Ciay	10.004	` ′ '	nnt Surrounding Lan	lduse	Indicate the dominant type	(Check one)
		<u>✓</u> Forest	Commer		<u>✓</u> Trees Shrubs	s
		Field/Pasture Industrial			Grasses Herbaceous	
WATERSHED		Agriculti Other:	ural Resident	iiai	Floodplain Width	
FEATURES		Other.				ate 15-30ft
		Canopy Co	over		✓ Narrow <16ft	
		<u>✓</u> Partly o Shaded	. ——	aded	Wetland Present Yes	✓ No
Snac		_Shaded	OpenOpen		Wetland ID	
					dominant species present	lan Fara flanklan
AQUATIC VEGETATIONRooted emergent Floating algae		· —	Rooted submer Attached alga	—	ingFree floating	
			<u></u>	- maonou aiga		
		No aqua ve				
			t OHWM due to recer	nt rain		
MACDOINVE	TEDDATES	, ∣ ⊢iows unde	er road into SO6			

MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	No aqua veg Stream is at OHWM due to recent rain Flows under road into SO6
---	--



Photograph Direction SW

STREAM ID S-A81	STREAM NAME UNT to Laurel Creek
LAT 38.481141 LONG -80.554670	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS Heule, lew, Cook	
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW NRPW_

Perenniai —		nt — Epnem	erai invv —	RPW —	NRPW —		
		Estimate Measurements Top of Bank Width: 2.0 ft			Stream Erosion None Moderate Heavy		
					NoneModerate	neavy	
		Top of Ban	k Height:		Artificial, Modified or Char	nnelized	
		LB <u>4.0</u>	in RB <u>3.0</u>	<u>in</u>	Yes <u></u> ✓ No		
CHANNEL FE	ATURES	Water Dept	th: <u>0.00 in</u>		5 6 1 1		
011111111111111111111111111111111111111	, o	Water Widt	h: 0.0 ft		Dam PresentYes _	<u>∕</u> No	
		High Water	Mark: 1.0 in		Sinuosity V Low	Medium High	
		ŭ	tion: Southwest		Out dis ut		
		I low blico			Gradient Flat✓ Moderate _	Severe	
					(0.5/100 ft (2 ft/100 ft)		
		Water Pres	sent		Proportion of Reach Repre	esented by Stream	
			r, stream bed dry		Morphology Types	0/	
		_	oed moist		Riffle % Run 80 Pool 20 %	%	
FLOW		Standing	•		7001 20 70		
CHARACTER	ISTICS		water		Turbidity		
		Velocity			Clear Slightly		
			Moderate		OpaqueStainedOther		
		✓ Slow		I			
INOR		STRATE CO add up to 10			RGANIC SUBSTRATE COM does not necessarily add u		
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition ir Sampling Area	
Bedrock				Dotritus	sticks, wood, coarse		
Boulder	> 256 ı	mm (10")		Detritus	plant materials (CPOM)	20	
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic		
Gravel	2-64 mm	(0.1"-2.5")		WIUCK-WIUU	(FPOM)	0	
Sand	0.06-2n	nm (gritty)				_	
Silt	0.004-0).06 mm	60	Marl	grey, shell fragments	0	
Clay	< 0.004 r	mm (slick)	40				
			ant Surrounding Lan	iduse	Indicate the dominant type	(Check one)	
		Forest	Commer	cial	Trees Shrub		
		— Field/Pa			Grasses Herba	iceous	
WATERSHED		Agricuit	urar <u>v</u> Resideni	liai	Floodplain Width		
FEATURES		0.11011				rate 15-30ft	
		Canopy Co			✓ Narrow <16ft		
			ppen Partly sh	Wetland PresentYes ✓ No			
		Shaded	OpenOpen		Wetland ID	_	
					lominant species present		
AQUATIC VE	GETATION	Rooted emergentRooted submergentRooted floatingFree floating Floating algae Attached algae					
		Floating	g algae	Attached algae	e 		
		1					
		Flows to S-	A79				
MACRONN	TEDD 4 TEC						
MACROINVER OR OTHER	KIEBKAIES						
WILDLIFE OBSERVED/C	THER						
OBSERVATIO							
NOTES							
		1					



Photograph Direction NNE

STREAM ID S-A79	STREAM NAME Laurel Creek
LAT 38.480735 LONG -80.554654	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS J.Cook, J.Heule, K.Lew	
FLOW REGIME	WATER TYPE
Perennial / Intermittent _ Ephemeral _	TNW RPW NRPW

Perennial -	_ Intermitte	nt <u> </u>	eral TNW	RPW <u>→</u>	NRPW		
			/leasurements k Width: <u>55.0 ft</u>		Stream Erosion ✓ None Moderate	Незуу	
					V Nonewoderate	rieavy	
		Top of Ban	ŭ		Artificial, Modified or Char	nnelized	
		LB <u>5.0</u>		<u>rt</u>	Yes No		
CHANNEL FE	ATURES	·	th: 2.00 ft		Dam Present Yes	✓ No	
		Water Widt	h: 40.0 ft			_	
		High Water	Mark: <u>3.0 ft</u>		Sinuosity <u>v</u> Low	Medium High	
		Flow Direct	tion: North		Gradient		
					<u>✓</u> FlatModerate (2 ft/100 ft)		
		Water Pres	cont		Proportion of Reach Repre	, ,	
			r, stream bed dry		Morphology Types	ssented by Stream	
		Stream	ped moist		Riffle 40 % Run 40	%	
FLOW		Standin	•		Pool 20 %		
CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity		
		Velocity			✓ Clear — Slightly		
			Moderate		OpaqueStained		
		Slow		ı	Other		
INOR		STRATE CO add up to 10	MPONENTS 0%)	_	RGANIC SUBSTRATE COM does not necessarily add u		
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder	> 256 ı	mm (10")	30	Delilius	plant materials (CPOM)		
Cobble	64-256 m	m (2.5"-10")	30	Muck-Mud	black, very fine organic		
Gravel	2-64 mm	(0.1"-2.5")	10	Widok-Wida	(FPOM)		
Sand	0.06-2n	nm (gritty)	20				
Silt	0.004-0	0.06 mm	5	Marl	grey, shell fragments		
Clay	< 0.004 r	mm (slick)	5				
		Predomina ✓ Forest	ant Surrounding Lar Commer		Indicate the dominant type Trees ✓ Shrub	(Check one)	
		Field/P			Grasses Herba		
		Agricul		tial	<u> </u>		
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Mode	rate 15-30ft	
		Canopy Co	ovor		✓ Narrow <16ft		
		Partly of	ppenPartly sh	aded	aded Water J Breeze A Van		
		Shaded Open			Wetland Present ✓ Yes Wetland IDW-A18	No	
		Indicate th	e dominant type and		Iominant species present		
AQUATIC VE	GETATION	Rooted emergentRooted submergentRooted floatingFree floating					
		Floating algaeAttached algae					
		_					
		Adjacent to	atws 454, 453 and 4	53a and WB 1	29.		
MACROINVER OR OTHER	KIEBKAIES						
WILDLIFE OBSERVED/C	THER						
OBSERVATION NOTES							
NOTES							
		•					



Photograph Direction WNW

STREAM ID S-A80	STREAM NAME UNT to Laurel Creek
LAT 38.480681 LONG -80.5541	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS J.Cook, J.Heule, K.Lew	
FLOW REGIME Perennial Intermittent ✓ Ephemeral	WATER TYPE TNW RPW_✓ NRPW

Perenniai	_	nt <u> —</u> Epnem	erai INVV —	RPW —	NRPW	
		F-414- B			Ota	
			/leasurements k Width: 4.0 ft		Stream Erosion None ✓ Moderate	Heavy
					Woderate	ricavy
		Top of Ban	· ·	. .	Artificial, Modified or Char	nnelized
		LB <u>1.0</u>	ft RB <u>3.0</u>	<u>ft</u>	Yes _ <u>✔</u> No	
CHANNEL FE	ATURES	•	th: 1.00 in		Dam PresentYes _	✓ No
		Water Widt	h: 2.0 ft			
		High Water	Mark: <u>2.0 ft</u>		Sinuosity <u>v</u> Low	Medium High
		Flow Direct	tion: West		Gradient	
						Severe
					, , ,	(10 ft/100 ft)
		Water Pres	sent r, stream bed dry		Proportion of Reach Repre Morphology Types	esented by Stream
			ned moist		Riffle % Run 80	%
EL 014/		Standing			Pool 20 %	
FLOW CHARACTER	ISTICS	<u>✓</u> Flowing	water		Total Lille	
		Valasitu			Turbidity ClearSlightly	turbidTurbid
		Velocity Fast	Moderate		✓ Opaque —Stained	
		✓ Slow			Other	
INOR	GANIC SUB	STRATE COMPONENTS		0	RGANIC SUBSTRATE COM	/IPONENTS
	(should a	add up to 10	0%)	(0	does not necessarily add u	p to 100%)
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Delilius	plant materials (CPOM)	20
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel	2-64 mm	า (0.1"-2.5")		Wack-Waa	(FPOM)	
Sand	0.06-2n	nm (gritty)	10			
Silt	0.004-0	0.06 mm	70	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	20			
			ant Surrounding Lan		Indicate the dominant type	
		— Forest	Commer		Trees Shrub	
		— Field/Pa			<u>✓</u> GrassesHerba	iceous
WATERSHED		Other:	Teolaeni	iiui	Floodplain Width	45 006
FEATURES					Wide > 30ft Mode ✓ Narrow <16ft Mode	rate 15-30ft
		Canopy Co Partly o		adod	- Narrow Tolt	
		Shaded		aucu	Wetland PresentYes	<u>✓</u> No
		_			Wetland ID	
AQUATIC VE	CETATION			d record the o	dominant species present	ting Free floating
AQUATIC VEC	SEIATION	— Floating	· —	Attached alga	_	rree lloating
			<u>-</u>			
MACROINVERTEBRATES						
OR OTHER						
WILDLIFE OBSERVED/C						
OBSERVATION NOTES	NS AND					



Photograph Direction SE

STREAM ID	STREAM ID S-E58			STREAM NAME Little Glade Run				
CLIENT MV	Р			PROJECT NAME MVP				
LAT 38.4445		ONG -80.55256	4	DATE 06/16/2016 COUNTY Webster				
		oster, S. Therkild	son, C.					
	WATER TYPE TNW RPW NRPW NRPW				Perennial Intermittent Ephemeral			
		T						
, ,				7.0 ft RB 2.0 ft O in ft r Mark (Width): 4.0 ft r Mark (Height): 8.0 in		Sinuosity Low Medium _ High Gradient _ Flat Moderate Severe (0.5/100 ft)		
Water Present No water, stream Stream bed mois Standing water ✓ Flowing water Velocity — Fast ✓ Moo Slow			etream b d moist vater ter			Proportion of Reach Represented by Stream Morphology Types (Only enter if water present) Riffle 25 % Run 65 % Pool 10 % Turbidity Clear Slightly turbid Turbid Other		
INOF	_	UBSTRATE CO		_			NIC SUBSTRATE COM not necessarily add u	
Substrate Type	Dia	meter		omposition in npling Reach	Substra Type		Characteristic	% Composition in Sampling Area
Bedrock					Detritus		sticks, wood, coarse	
Boulder	> 2	56 mm (10")			Domina	р	lant materials (CPOM)	20
Cobble		6 mm (2.5"-10")			Muck-Mu	_{id} b	lack, very fine organic	
Gravel		mm (0.1"-2.5")	10)	WIGGK-WIG	<u> </u>	(FPOM)	
Sand	0.06	-2mm (gritty)	30)				
Silt	0.00	04-0.06 mm	30)	Marl		grey, shell fragments	
Clay	< 0.00	04 mm (slick)	30					<u> </u>
Predominant Surr ✓ Forest — Field/Pasture — Agricultural — ROW Canopy Cover — Open ✓ Shaded			ure _ al _	unding Landu Commercia Industrial Residential Other: Partly shad	al	Wi	p lain Width de > 30ft Modera arrow <15ft	ate 15-30ft
MACROINVERTEBRATES/OTHER WILDLIFE OBSERVED OR OTHER NOTES AND OBSERVATIONS						RVATIONS		
Observed large crawfish and small minnows.								



Photograph Direction South

STREAM ID S-E55	STREAM NAME UNT to Laurel Creek
LAT 38.440226 LONG -80.559771	DATE 05/01/2015
CLIENT MVP	CLIENT MVP
INVESTIGATORS S Ryan, L Harloe, H Heist	
FLOW REGIME Perennial — Intermittent— Ephemeral	WATER TYPE TNW RPW NRPW ✓

Perennial _	_ Intermitte	nt Ephem	eral TNW	RPW —	NRPW <u>~</u>		
		-					
			fleasurements k Width: 2.0 ft		Stream ErosionNone <u>✓</u> Moderate	Heavy	
		Top of Ban	k Height:		Artificial, Modified or Char	nnelized	
		LB <u>1.0</u>	ft RB <u>1.0</u>		Yes <u></u> ✓ No		
CHANNEL FE	ATURES		th: 0.50 in		Dam PresentYes _	✓ No	
		Water Widt				_	
		High Water	Mark: <u>2.0 in</u>		Sinuosity Low	Medium High	
		Flow Direct	tion: East		Gradient		
					Flat Moderate (2 ft/100 ft)		
		Water Pres			Proportion of Reach Repre	esented by Stream	
		✓ Stream I	r, stream bed dry		Morphology Types Riffle % Run 95	%	
		✓ Standing			Pool 5 %		
FLOW CHARACTER	ISTICS	Flowing					
		Velocity			Turbidity Clear ∠ Slightly	turbidTurbid	
		•	Moderate		OpaqueStained		
		Slow			Other		
INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)				_	RGANIC SUBSTRATE COM does not necessarily add u		
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse		
Boulder	> 256 ı	mm (10")		Detritus	plant materials (CPOM)	90	
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	0	
Gravel		(0.1"-2.5")			(FPOM)	<u> </u>	
Sand		nm (gritty)				0	
Silt		0.06 mm	100	Marl	grey, shell fragments		
Clay	< 0.004 1	nm (slick)	100 ant Surrounding Lan	duco	Indicate the dominant type	(Cheek ene)	
		✓ Forest			Indicate the dominant type Trees Shrub	; (Cneck one) S	
			astureIndustrial		Grasses Herba		
WATERSHED		Agricult Other:	tural Resident	tial	Floodplain Width		
FEATURES		Other.				rate 15-30ft	
		Canopy Co	over		✓ Narrow <16ft		
		Partly open Partly shaded ✓ Shaded Open			Wetland PresentYes Wetland ID	<u>✓</u> No	
					dominant species present		
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating					
		Floating	g algae	Attached algae	<u> </u>		
		Otanadinan				of video Downsinder	
			percent) of stream be		near origin of stream at top of the flowing or pooled.	or riage. Hemainaer	
MACROINVE	RTEBRATES				• .		
OR OTHER WILDLIFE							
OBSERVED/C							
NOTES	NIO AND						
		Ī					



Photograph Direction East

STREAM ID S-F35	STREAM NAME UNT to Birch River
LAT 38.424125 LONG -80.570751	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Flake, D. McCullough, E.	Strohmaier
FLOW REGIME Perennial ✓ Intermittent — Ephemeral —	WATER TYPE TNW RPW_✓ NRPW

Perenniai -	_ memme	ntEpnem	erai INVV —	RPW —	NRPW	
		F-414- B			Ot	
			/leasurements k Width: <u>5.0 ft</u>		Stream Erosion ✓ None Moderate	Heavy
		-				
		Top of Ban	· ·		Artificial, Modified or Char	nnelized
		LB <u>2.0</u>		<u>ft</u>	Yes No	
CHANNEL FE	ATURES	Water Dep	th: 2.00 in		Dam PresentYes _	∠ No
		Water Widt	h: <u>2.0 ft</u>			<u>/ </u>
		High Water	Mark: <u>2.0 ft</u>		Sinuosity 🔽 Low	Medium High
		Flow Direct	tion: SE		Gradient	
					✓ FlatModerate _	Severe
					` , ,	(10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	esented by Stream
			r, stream bed dry bed moist		Morphology Types Riffle 25 % Run 10	%
		— Standing			Pool 65 %	, ,
FLOW CHARACTER	ISTICS	Flowing	-			
01344010121					Turbidity <u>✓</u> ClearSlightly	turbidTurbid
		Velocity Fast	Moderate		OpaqueStained	
		✓ Slow	Woderate		Other	
INOR	GANIC SUB	STRATE CO	MPONENTS	0	RGANIC SUBSTRATE COM	//PONENTS
	(should add up to 100%)				does not necessarily add u	
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritue	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	20
Cobble	64-256 m	m (2.5"-10")	10	Muck-Mud	black, very fine organic	_
Gravel	2-64 mm	า (0.1"-2.5")	30	Wuck-Wuu	(FPOM)	5
Sand	0.06-2n	nm (gritty)	10			
Silt	0.004-0	0.06 mm	50	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)				
			ant Surrounding Lan		Indicate the dominant type	(Check one)
		Forest	Commer		✓ Trees ✓ Shrub	
		Field/Pa			<u>✓</u> Grasses <u>✓</u> Herba	iceous
WATERSHED		Other:		Floodplain Width		
FEATURES					Wide > 30ftMode	rate 15-30ft
		Canopy Co			Narrow < roll	
		Shaded	ppen <u>✓</u> Partly sh d Open	aded	Wetland Present <u>✓</u> Yes	No
		_			Wetland ID	
401147101/5					dominant species present	line Franklantine
AQUATIC VE	EIATION	Floating	_	Rooted subme Attached algae	_	tingFree floating
				/ titaorica aiga		
MACROINVERTEBRATES						
OR OTHER	VILDIVATEO					
WILDLIFE OBSERVED/C						
OBSERVATION NOTES	NS AND					



Photograph Direction SE

STREAM ID S-F34	STREAM NAME UNT to Birch River
LAT 38.423988 LONG -80.570679	DATE 05/02/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Flake, D. McCullough, E.	Strohmaier
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW_✓ NRPW

Perenniai -	_ memilie	nt <u> — Epnem</u>	erai INVV	RPW —	NRPW		
		F-4'4- B			Ot		
			/leasurements k Width: <u>5.0 ft</u>		Stream ErosionNoneModerate	✓ Heavy	
		Top of Bank Height:					
			ŭ		Artificial, Modified or Char	nnelized	
		LB <u>3.0</u>	ft RB <u>3.0</u>	<u>tt</u>	Yes No		
CHANNEL FE	ATURES	Water Dep	th: 0.50 in		Dam PresentYes _	∠ No	
		Water Widt	th: 4.0 ft				
		High Water	Mark: <u>1.0 ft</u>		Sinuosity Low	Medium High	
		Flow Direc	tion: S		Gradient		
					✓ FlatModerate _	Severe	
					,	(10 ft/100 ft)	
		Water Pres			Proportion of Reach Repre	esented by Stream	
			r, stream bed dry bed moist		Morphology Types Riffle 25 % Run 75	%	
		— Stream			Pool %	70	
FLOW CHARACTER	ISTICS	Flowing	-				
011111111111111111111111111111111111111					Turbidity <u>✓</u> ClearSlightly	turbidTurbid	
		Velocity Fast	✓ Moderate		Opaque Stained		
		Slow	<u> </u>		Other		
INOR	GANIC SUB	STRATE CO	MPONENTS	0	RGANIC SUBSTRATE CON	MPONENTS	
iii oi		add up to 10			does not necessarily add u		
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock			Carripining recom	1,700	sticks, wood, coarse	Camping 7 ii ca	
Boulder	> 256	mm (10")	5	Detritus	plant materials (CPOM)	25	
Cobble	64-256 m	m (2.5"-10")	10	Musik Mud	black, very fine organic		
Gravel	2-64 mm	n (0.1"-2.5")	25	Muck-Mud	(FPOM)		
Sand	0.06-2n	nm (gritty)	15				
Silt	0.004-0	0.06 mm	25	Marl	grey, shell fragments		
Clay	< 0.004	mm (slick)	20				
			ant Surrounding Lan		Indicate the dominant type		
		Forest	Commer		<u>✓</u> Trees Shrub		
		Field/PastureIndustrial Agricultural Resident			Grasses Herba	iceous	
WATERSHED		Other:	itesideiii	liai	Floodplain Width		
FEATURES				Wide > 30ft Moderate		rate 15-30ft	
		Canopy Cover		<u>✓</u> Narrow <16ft			
		Partly open Shaded Open		aded	Wetland PresentYes	✓ No	
			D Open		Wetland ID		
					dominant species present		
AQUATIC VE	GETATION		· —	Rooted subme Attached algae	<u> </u>	tingFree floating	
		1 10atii1	<u></u>	Allacried algai	<u> </u>		
		1					
MACROINVERTEBRATES OR OTHER							
		'					
WILDLIFE OBSERVED/C	THER						
OBSERVATION NOTES							
NOTES							



Photograph Direction South

Comments:			

STREAM ID S-F36A	STREAM NAME UNT to Birch River
LAT 38.419809 LONG -80.572627	DATE 05/03/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Flake, D. McCullough, E.	Strohmaier
FLOW REGIME Perennial / Intermittent _ Ephemeral	WATER TYPE TNW RPW_✓ NRPW

			Measurements k Width: 5.0 ft		Stream Erosion None Moderate	Heavy
		Top of Bank Height:			Autificial Madified or Cham	malinad
		LB <u>1.0 ft</u> RB <u>1.0 ft</u>			Artificial, Modified or Chan Yes ✓ No	menzea
CHANNEL FE	ATURES		th: 0.50 ft			
OHAMILLIL	ATORLO	Water Width: 5.0 ft			Dam PresentYes	<u>∕</u> No
		High Water	Mark: <u>1.0 ft</u>		Sinuosity Low	Medium High
		Flow Direct	tion: W		Gradient	
					✓ Flat Moderate	Severe (10 ft/100 ft)
5 1 004			r, stream bed dry bed moist		Proportion of Reach Representation of Reach Representa	sented by Stream
FLOW CHARACTERISTICS		✓ Flowing Velocity Fast Slow	water ✓ Moderate		Turbidity <u>✓</u> ClearSlightly turbidTur OpaqueStainedOther	
INORGANIC SUBSTRATE COMPONENTS			ORGANIC SUBSTRATE COMPONENTS			
0.45-44-	(should	add up to 10			does not necessarily add up	•
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")	5		plant materials (CPOM)	10
Crovel		ım (2.5"-10")	45	Muck-Mud	black, very fine organic (FPOM)	
Gravel Sand		n (0.1"-2.5")	15		(I I OW)	
Silt		nm (gritty) 0.06 mm	10 15	Marl	grey, shell fragments	
Clay		mm (slick)	10	IVICIT		
Olay	0.00	·	ant Surrounding Lan	duso	Indicate the dominant type	(Chaok ana)
WATERSHED FEATURES		✓ Forest Commercial ✓ Field/Pasture Industrial Agricultural Residential Other:		cial l tial	<u>✓</u> Trees Shrub: <u>✓</u> Grasses Herba: Floodplain Width Wide > 30ft Moder	S
		Canopy Co			✓ Narrow <16ft	
l —		Partly of Shadeo	· — ·		Wetland Present <u>✓</u> Yes Wetland ID W-F38, W-F39,	No W-F40
AQUATIC VEGETATION Indicate the domernment of the control of the c		emergent <u>v</u>		lominant species present ergentRooted float		
	A culvert connects S-F36A to S-F36B (downstream). Small fish in stream					

MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	A culvert connects S-F36A to S-F36B (downstream). Small fish in stream Stream changed to centerline at S-F36.76: stream bankfull width 10ft.
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Photograph Direction West

STREAM ID S-F36B	STREAM NAME UNT to Birch River
LAT 38.417924 LONG -80.576756	DATE 05/03/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Flake, D. McCullough, E.	Strohmaier
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW_✓ NRPW

i eleliliai –	_ 11110111111110	III.— Epileili			11111 11	
			Measurements		Stream Erosion	«€ Hanni
		•	k Width: 20.0 ft		NoneModerate	L Heavy
		Top of Bank Height:			Artificial, Modified or Char	nnelized
		LB <u>5.0</u>	ft RB <u>5.0</u>	<u>ft</u>	Yes _ <u>✔</u> No	
CHANNEL FE	ATURES	Water Dep	th: 1.00 ft		Dom Brosont Voc	4 No
		Water Widt	h: 15.0 ft		Dam PresentYes _	<u> </u>
		High Water	Mark: <u>4.0 ft</u>		Sinuosity 🔽 Low	Medium High
		Flow Direct	tion: N		Gradient	
					Flat Moderate _	
					`	(10 ft/100 ft)
		Water Pres	sent r, stream bed dry		Proportion of Reach Repre Morphology Types	esented by Stream
			ped moist		Riffle 50 % Run 50	%
EL OW		Standing	g water		Pool %	
FLOW CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	turbidTurbid
			✓ Moderate		OpaqueStained	
		Slow			Other	
INOR			MPONENTS		RGANIC SUBSTRATE CON	
	(should a	add up to 10	i -	(c	loes not necessarily add u	· · · · · · · · · · · · · · · · · · ·
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			30	Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")	25	Detritus	plant materials (CPOM)	15
Cobble	64-256 m	m (2.5"-10")	30	Muck-Mud	black, very fine organic	
Gravel	2-64 mm	(0.1"-2.5")	10		(FPOM)	
Sand		nm (gritty)				
Silt		0.06 mm	5	Marl	grey, shell fragments	
Clay	< 0.004 i	mm (slick)				
		Predominant Surrounding Land			Indicate the dominant type V Trees Shrub	
		Forest Commer Field/Pasture Industrial			Grasses Herba	
		Agricult	tural Resident	tial	_	
WATERSHED FEATURES		Other:			Floodplain Width Wide > 30ft Mode	rate 15-30ft
		Canopy Cover ✓ Partly open Partly sha		✓ Narrow <16ft		
		Shaded	DpenOpen		Wetland Present <u>✓</u> Yes Wetland ID W-F31, W-F32	No
		Indicate th	e dominant type and		- , -	
AQUATIC VE	GETATION	Indicate the dominant type and record the dominant species presentRooted emergentRooted emergentRooted floating				
Floating algae		g algae	Attached algae	e		
		Culvert con	nects S-F36B to S-F3	36A (upstream)	
MACROINVER OR OTHER	RTEBRATES	1				
WILDLIFE OBSERVED/C	THED					
OBSERVATIO						
NOTES						



Photograph Direction North

STREAM ID S-F37	STREAM NAME UNT to Birch River
LAT 38.417448 LONG -80.576388	DATE 05/03/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Flake, D. McCullough, E.	Strohmaier
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW_✓ NRPW

			leasurements		Stream Erosion		
		Top of Ban	k Width: 4.0 ft		None _v Moderate Heavy		
		Top of Bank Height:		Artificial, Modified or Channelized			
		LB <u>1.0</u>	ft RB <u>1.0</u>	tı.	<u>✓</u> Yes No		
CHANNEL FE	ATURES	Water Dept	h: 0.50 ft				
OHARREL I E	ATORLO	Water Widt	h: 2.0 ft		Dam PresentYes _	<u>∕</u> No	
		High Water	Mark: 0.5 ft		Sinuosity Low	Medium High	
		Flow Direct			Cuadiant		
		1 low bileon			Gradient ✓ Flat Moderate _	Severe	
						(10 ft/100 ft)	
		Water Pres			Proportion of Reach Repre	esented by Stream	
			r, stream bed dry		Morphology Types Riffle 25 % Run 75	%	
		Stream of Standing	ped moist		Pool %	70	
FLOW	ICTICC	<u>✓</u> Flowing	•		70		
CHARACTER	151105	<u></u> 9			Turbidity		
		Velocity			✓ Clear — Slightly — Opaque — Stained		
		Fast . ✓ Slow	Moderate		OpaqueStainedOther		
INOR		STRATE CO		_	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Dotrituo	sticks, wood, coarse		
Boulder	> 256 ı	mm (10")		Detritus	plant materials (CPOM)	10	
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic		
Gravel	2-64 mm	(0.1"-2.5")	10	iviuck-iviuu	(FPOM)		
Sand	0.06-2n	nm (gritty)	35				
Silt	0.004-0).06 mm	30	Marl	grey, shell fragments		
Clay	< 0.004 r	mm (slick)	25				
			nt Surrounding Lan		Indicate the dominant type		
		Forest ✓ Field/Pa	Commer		Trees Shrub ✓ Grasses Herba		
		Agricult				iceous	
WATERSHED		Other:		iidi	Floodplain Width		
FEATURES		_			Wide > 30ft Mode ✓ Narrow <16ft	rate 15-30ft	
		Canopy Co		_			
		Partly o		aded	Wetland Present Yes No		
			<u>v</u> Open		Wetland ID W-F41		
					ominant species present	tion - Frankis	
AQUATIC VE	SETATION		Rooted emergentRooted submergentRooted floatingFree floating Floating algae Attached algae				
FI				Attached algae	7		
		la. ,					
MACROINVERTEBRATES OR OTHER		Stream has	been modified by co	WS.			
WILDLIFE OBSERVED/C	THER						
OBSERVATIO							
NOTES							



Photograph Direction North

STREAM ID S-C49	STREAM NAME UNT to Birch River
LAT 38.416648 LONG -80.577753	DATE 04/30/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Grech, S.Kelly, M. Whitte	n
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW NRPW ✓

Perennial_	Intermitte	ntEphem	eral Y TNW_	RPW	NRPW_	
			Measurements		Stream Erosion	Hanni
			k Width: 3.0 ft		NoneModerate	Heavy
		Top of Ban	· ·		Artificial, Modified or Char	nnelized
		LB <u>6.0</u>	in RB <u>10.0</u>	<u>in</u>	Yes No	
CHANNEL FE	ATURES	•	th: 0.00 in		Dam PresentYes _	∠ No
		Water Widt			Cinus aitus de Laur	Madium High
		_	Mark: 6.0 in		Sinuosity <u>v</u> Low	iviedium High
		Flow Direc	tion: East		Gradient	_
						Severe (10 ft/100 ft)
		Water Pres			Proportion of Reach Repre	esented by Stream
			r, stream bed dry bed moist		Morphology Types Riffle 70 % Run	%
		Standin			Pool 30 %	70
FLOW CHARACTER	ISTICS	Flowing				
011111111111111	.01100				Turbidity ClearSlightly	turbidTurbid
		Velocity Fast	Moderate		OpaqueStained	
		Slow			Other	
INOR	GANIC SUB	STRATE CO	MPONENTS	0	RGANIC SUBSTRATE CON	// IPONENTS
	(should a	add up to 10	0%)	(0	loes not necessarily add up to 100%)	
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder		mm (10")	5		plant materials (CPOM)	30
Cobble		m (2.5"-10")	5	Muck-Mud	black, very fine organic	
Gravel		(0.1"-2.5")	10		(FPOM)	
Sand		nm (gritty)	25	Mani		
Silt		0.06 mm	25	Marl	grey, shell fragments	
Clay	< 0.004 1	mm (slick)	30	duaa	Indicate the deminent type	(Ob 1)
		✓ Forest	ant Surrounding Lar Commer		Indicate the dominant type ✓ Trees Shrub	
		Field/P	astureIndustria	I		aceous
WATERSHED		Agricul	tural Residen	tial	Floodplain Width	
FEATURES		Other:				rate 15-30ft
		Canopy Cover		<u>✓</u> Narrow <16ft		
		<u>✓</u> Partly o		naded Wetland PresentYes		✓ No
		ShadedOpen			Wetland ID	
ı					lominant species present	
AQUATIC VEGETATION		Rooted emergentRooted submergentRooted floatingFree floating				
Floating algae		Attached algae				
		Enhamaral	abannal unatroom fla	wing to boom	oo intermittent (C C49)	
MACROINVERTEBRATES		Epinemeral	channel upstream no	wing to becom	ne intermittent (S-C48).	
OR OTHER WILDLIFE						
OBSERVED/C						
OBSERVATION NOTES	INS AND					



Photograph Direction East

STREAM ID S-B33	STREAM NAME UNT to Meadow Fork				
LAT 38.408874 LONG -80.589286	DATE 04/30/2015				
CLIENT MVP	PROJECT NAME MVP				
INVESTIGATORS E. Foster, K. Lamontagne, C. Ansari					
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —				

Perenniai _		nt <u> </u>	erai rivvv	RPW —	NRPW —		
		F-414- 1					
CHANNEL FEATURES		Estimate Measurements Top of Bank Width: 10.0 ft			Stream Erosion None Moderate Heavy		
		'					
		Top of Bank Height:			Artificial, Modified or Channelized Yes✓ No		
		LB <u>6.0 ft</u> RB <u>6.0 ft</u>		<u>tt</u>			
		Water Depth: 3.00 in			Dam Present Yes ✓ No Sinuosity ✓ Low Medium High Gradient — Flat ✓ Moderate Severe (0.5/100 ft) (2 ft/100 ft) (10 ft/100 ft)		
		Water Width: 3.0 ft					
		High Water Mark: <u>3.0 in</u>					
		Flow Direction: West					
		Water Present No water, stream bed dry			Proportion of Reach Represented by Stream Morphology Types		
			n, stream bed dry bed moist		Riffle 50 % Run %		
		Standing water			Pool 50 %		
FLOW CHARACTER	ISTICS	Flowing water					
					Turbidity <u>✓</u> ClearSlightly turbidTurbid OpaqueStained		
		Velocity Fast Moderate					
		✓ Slow			Other		
INORGANIC SUBSTRATE COMPONENTS ORGANIC SUBSTRATE COMPONENTS							
		add up to 10		(does not necessarily add up to 100%)			
Substrate Type	Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock					sticks, wood, coarse	-	
Boulder	> 256	> 256 mm (10") 10		Detritus	plant materials (CPOM)	30	
Cobble	64-256 m	m (2.5"-10")	10	Muck Mud	black, very fine organic		
Gravel	2-64 mm	ı (0.1"-2.5")	25	Muck-Mud	(FPOM)		
Sand	0.06-2n	0.06-2mm (gritty) 30					
Silt	0.004-0.06 mm		25	Marl	grey, shell fragments		
Clay	< 0.004	004 mm (slick)					
Predominant Surrounding Landuse Indicate the dominant type (Check							
		<u>✓</u> Forest	Commer				
WATERSHED		Field/PastureIndustrial Agricultural Resident					
		Other:	itesideli	liai	Floodplain Width		
FEATURES					Wide > 30ft Moderate 15-30ft		
		Canopy Cover			✓ Narrow <16ft		
		Partly open Partly shaded Open		aded	Wetland PresentYes <u>✓</u> No		
		ShadedOpen			Wetland ID		
Indicate the dominant type and record the dominant species present							
AQUATIC VEGETATION Rooted emergent Rooted submergent Rooted floating Fr Floating algae Attached algae						ingFree floating	
				rittaoriea aigai			
		1					
MACROINVER	TERDATES						
OR OTHER	VILDIVAILS						
WILDLIFE OBSERVED/C	THER						
OBSERVATIO NOTES							
110120							



Photograph Direction West

STREAM ID S-B32 Braid	STREAM NAME UNT to Meadow Fork				
LAT 38.405939 LONG -80.591024	DATE 04/30/2015				
CLIENT MVP	PROJECT NAME MVP				
INVESTIGATORS E. Foster, K. Lamontagne, C. Ansari					
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW ✓ NRPW				

Perennial _	Intermitte	nt Epheme	eral —	TNW	RPW 💆	NRPW		
					Stream Erosion			
		Top of Bank Width: 7.0 ft				NoneModerate	Heavy	
		Top of Ban	k Height:			Artificial, Modified or Chai	nnelized	
		LB 3.0	<u>ft</u>	RB <u>3.0</u>	<u>ft</u>	Yes ✓ No		
CHANNEL FE	ATUDES	Water Dept	th: 1.50	ft				
CHANNEL FE	AIUKES	Water Widt				Dam PresentYes	<u>∠</u> No	
		High Water		_		Sinuosity Low	Medium ✓ High	
		Flow Direct					_ ~	
		Flow Direct	lion			Gradient ✓ FlatModerate	Severe	
						(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)	
		Water Pres				Proportion of Reach Repre	esented by Stream	
			r, stream l			Morphology Types	0/	
			oed moist			Riffle % Run Pool %	%	
FLOW		Standing	_			70		
CHARACTER	ISTICS	<u>v</u> i lowing	water			Turbidity		
		Velocity				Clear Slightly Opaque Stained		
		Fast ✓ Slow	Mode	erate		OpaqueStainedOther		
INOR		STRATE CO add up to 10	_	ITS	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)			
Substrate Type	Diame	ter		nposition in ling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock					Detritus	sticks, wood, coarse		
Boulder	> 256 ı	mm (10")			Detitius	plant materials (CPOM)	5	
Cobble	64-256 m	m (2.5"-10")			Muck-Mud	black, very fine organic		
Gravel	2-64 mm	(0.1"-2.5")			Widok Widd	(FPOM)		
Sand	0.06-2n	nm (gritty)						
Silt).06 mm	100)	Marl	grey, shell fragments		
Clay	< 0.004 r	mm (slick)						
		Predomina Forest	ant Surro	unding Lan Commer		Indicate the dominant type Trees Shrub	(Check one)	
		Field/Pa	asture -	Commen		Grasses Herba		
		Agricult		Resident		<u> </u>		
WATERSHED FEATURES		Other:	-			Floodplain Width ✓ Wide > 30ft Mode	rate 15-30ft	
LATOREO		C				Narrow <16ft	Tate 10-301t	
		Canopy Co		Partly sh	aded	_		
- - : : ·			<u>✓</u> Open		Wetland Present _v_Yes Wetland ID w-B30	No		
		Indicate th	e domina	ant type and	d record the d	dominant species present		
AQUATIC VE	GETATION		emerger		Rooted subm		tingFree floating	
Floating algae			Attached alga	e				
						ıs serrulata, hypericum densi	flora, and salix nigra	
		0	hin the na	arrow stream	n bank full wid	th.		
MACROINVER OR OTHER	RTEBRATES							
WILDLIFE	THED							
OBSERVED/C								
NOTES								



Photograph Direction North

STREAM ID S-B32	STREAM NAME UNT to Meadow Fork
LAT 38.405740 LONG -80.591010	DATE 04/30/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS E. Foster, K. Lamontagne, C	C. Ansari
FLOW REGIME Perennial — Intermittent Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

Perennial _	Intermitte	nt Epheme	eral —	TNW	RPW 💆	NRPW —			
					Stream Erosion				
		Top of Ban	k Width:	7.0 ft		NoneModerate	Heavy		
		Top of Ban	k Height:			Artificial, Modified or Char	nnelized		
		LB 3.0	ft	RB 3.0	<u>ft</u>	Yes ✓ No			
CHANNEL FE	ATUDES	Water Dept	th: 1.50	ft		<u> </u>			
CHANNEL FE	AIUKES	Water Widt				Dam PresentYes	<u>∠</u> No		
		High Water				Sinuosity Low	Medium ✓ High		
		Flow Direct					_ ~		
		Flow Direct	1011. 1401			Gradient ✓ FlatModerate _	Severe		
						(0.5/100 ft (2 ft/100 ft)	(10 ft/100 ft)		
		Water Pres				Proportion of Reach Repre	esented by Stream		
			r, stream			Morphology Types	-		
			oed moist			Riffle % Run Pool %	%		
FLOW		Standing Flowing	_			70			
CHARACTER	ISTICS	<u>v</u> i lowing	water			Turbidity			
		Velocity				Clear Slightly			
			Mode	erate		OpaqueStainedOther			
		<u>✓</u> Slow			_				
INOR		STRATE CO add up to 10	_	NTS		ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)			
Substrate Type	Diame	ter		mposition in oling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock					Detritus	sticks, wood, coarse			
Boulder	> 256 ı	mm (10")			Detilitus	plant materials (CPOM)	5		
Cobble	64-256 m	m (2.5"-10")			Muck-Mud	black, very fine organic			
Gravel	2-64 mm	(0.1"-2.5")			Widok Widd	(FPOM)			
Sand	0.06-2n	nm (gritty)							
Silt		0.06 mm	10	0	Marl	grey, shell fragments			
Clay	< 0.004 r	mm (slick)							
		Predomina Forest	ant Surro	ounding Lan Commer		Indicate the dominant type Trees Shrub	(Check one)		
		Field/Pa	asture -	Commen		Grasses Herba			
		Agricult		Resident					
WATERSHED FEATURES		Other:	_			Floodplain Width ✓ Wide > 30ft Mode	rate 15-30ft		
LATOREO		C				Narrow <16ft	Tate 10-301t		
		Canopy Co Partly o		Partly sh	aded	_			
I — —			<u>✓</u> Open		Wetland Present Yes Wetland ID W-B30	No			
		Indicate th	e domin	ant type and	d record the d	dominant species present			
AQUATIC VE	GETATION	Rooted	l emerger		Rooted subm		tingFree floating		
Floating algae			Attached alga	е					
						ıs serrulata, hypericum densi	iflora, and salix nigra		
			thin the n	arrow stream	n bank full wid	th.			
MACROINVER OR OTHER	RTEBRATES								
WILDLIFE	THED								
OBSERVED/C									
NOTES									



Photograph Direction North

STREAM ID S-EF40			STREAM NAME UNT to Meadow Fork					
CLIENT MVP			PROJECT NAME MVP					
LAT 38.40090	09 <u>L</u>	ONG -80.59772		DATE 07/21/2016 COUNTY Webster				
INVESTIGATO	ORS D Ha	dersbeck S Rya	n S Pi	tcher				
WATER TYPE	RPW [NRPW		FLOW REG Perennial		nittent 🗾 Ephemeral 🗌		
CHANNEL FE	ATURES	Estimate Measurements Top of Bank Width:7.0ft Top of Bank Height: LB1.5ft					ere	
FLOW CHARACTER	ISTICS	Water Present No water, stream bed dry Stream bed moistStanding water Flowing water VelocityFastModerateSlow				Proportion of Reach Represented by Stream Morphology Types (Only enter if water present) Riffle 10 % Run 90 % Pool % Turbidity Clear ✓ Slightly turbid Turbid Other		
INOR	-	UBSTRATE CO		_		ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Dia	meter		Composition in mpling Reach	Substra Type	I Characteristic I '		
Bedrock					Detritus	sticks, wood, coarse		
Boulder		56 mm (10")				plant materials (CPOM) 5		
Cobble		6 mm (2.5"-10")			Muck-Mu	d black, very fine organic (FPOM)		
Gravel		nm (0.1"-2.5")	10			(FFOIVI)		
Sand		-2mm (gritty)	1					
Silt		04-0.06 mm 04 mm (slick)	8	0	Marl	grey, shell fragments		
Clay WATERSHED FEATURES								
MAC	ROINVER	TERRATES/OT	HFR V	VII DI IFF OBS	FRVFD OF	R OTHER NOTES AND OBSERVATIONS		
		Connects with W						



Photograph Direction SE

STREAM ID W-B30	STREAM NAME UNT to Meadow Fork
LAT 38.399752 LONG -80.597499	DATE 04/29/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS E. Foster, K. Lamontagne, C	C. Ansari
FLOW REGIME Perennial Intermittent Ephemeral ✓	WATER TYPE TNW RPW NRPW ✓

Perennial _	Intermitte	nt Ephem	eral ✓ TNW —	RPW —	NRPW <u></u> ✓	
1	'		leasurements		Stream Erosion	
		Top of Ban	k Width: 4.0 ft		✓ NoneModerate	Heavy
		Top of Ban	k Height:		Artificial, Modified or Char	nnelized
		LB <u>16.0</u>	in RB <u>19.0</u>		✓ Yes No	
CHANNEL FE	ATURES	Water Dep	th: 1.00 in		_	
CHANNEL FE	AIURES	Water Widt			Dam PresentYes	<u>/_</u> No
			Mark: <u>1.0 in</u>		Sinuosity ✓ Low	Medium High
		_				
		Flow Direct	IION: Last		Gradient	Carrana
						Severe (10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	,
			r, stream bed dry		Morphology Types	
		_	ped moist		Riffle % Run 50	%
FLOW		— Standing	•		Pool 50 %	
CHARACTER	ISTICS	✓ Flowing	water		Turbidity	
		Velocity			✓ ClearSlightly	turbidTurbid
		,	✓ Moderate		OpaqueStained	
		Slow			Other	
INOR		STRATE CO			RGANIC SUBSTRATE CON	
	(should a	add up to 10	,		does not necessarily add u	p to 100%)
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	60
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	
Gravel	2-64 mm	1 (0.1"-2.5")		Wack-Waa	(FPOM)	
Sand	0.06-2n	nm (gritty)				
Silt	0.004-0	0.06 mm	100	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)				
		Predomina	ant Surrounding Lan		Indicate the dominant type	
		Forest	Commer		Trees Shrub	
		✓ Field/Pa			✓ Grasses Herba	iceous
WATERSHED	1	Agricultural Residential Other:			Floodplain Width	
FEATURES		_				rate 15-30ft
		Canopy Cover			✓ Narrow <16ft	
-		Partly openPartly shaded			Wetland Present ✓ Yes	No
	Shaded✓ Open				Wetland ID W-B28	
		Indicate th	e dominant type and		Iominant species present	time = = = = = = = = = = = = = = = = = = =
AQUATIC VEGETATION Rooted emergent				Rooted subme	<u> </u>	tingFree floating
			<u></u>	Allacited algae	<u> </u>	
					ata collected in 2015. The st	
MA 656	TERR (== -		บาษ. The presence of	a stream chan	nnel and OHWM was confirm	ea.
MACROINVER OR OTHER	KIEBRATES	1				
WILDLIFE OBSERVED/C	THED					
OBSERVATION						
NOTES						

Stream ID W-B30



Photograph Direction West

Date: <u>04/29/2015</u>

Comments: 2015 stream identification.



Photograph Direction West

Date: <u>11/26/2</u>019

Comments: 2019 stream identification confirmation.

STREAM ID S-B29	STREAM NAME Meadow Fork
LAT 38.399703 LONG -80.597376	DATE 04/29/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS E. Foster, K. Lamontagne, C	C. Ansari
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW ✓ NRPW

i eleliliai =	_ 11110111111110	III— Epileili				
		Fatimata I			Otan	
			/leasurements k Width: <u>7.0 ft</u>		Stream Erosion None ✓ Moderate	Heavv
		Top of Ban				·
		LB 2.0	=	ft	Artificial, Modified or Char	nnelized
				<u> </u>	Yes _ <u>✔</u> No	
CHANNEL FE	ATURES	·	th: 6.00 in		Dam PresentYes _	<u>∨</u> No
		Water Widt			Sinuosity Low	Medium ✓ High
		ŭ	Mark: 7.0 in		LOW	iviedidiri <u>v</u> riigir
		Flow Direct	tion: North		Gradient	Carrana
					<u>✓</u> Flat Moderate (2 ft/100 ft)	Severe (10 ft/100 ft)
		Water Pres	sent		Proportion of Reach Repre	esented by Stream
			r, stream bed dry		Morphology Types Riffle % Run 80	%
		Stream Standing	bed moist		Riffle % Run 80 Pool 20 %	70
FLOW CHARACTER	ISTICS	<u>✓</u> Flowing	•		70	
CHARACTER	131103				Turbidity <u>✓</u> ClearSlightly	turbidTurbid
		Velocity Fast	✓ Moderate		✓ Clear — Slightly — Opaque — Stained	
		Slow	<u> </u>		Other	
INOR	GANIC SUB	STRATE CO	MPONENTS	0	RGANIC SUBSTRATE CON	/PONENTS
		add up to 10		(c	loes not necessarily add u	p to 100%)
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Detritus	sticks, wood, coarse	
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	5
Cobble	64-256 m	m (2.5"-10")		Muck-Mud	black, very fine organic	0
Gravel		1 (0.1"-2.5")	25		(FPOM)	•
Sand		nm (gritty)				
Silt		0.06 mm	75	Marl	grey, shell fragments	
Clay	< 0.004	mm (slick)	nt Currenadina Lar	duas	Indicate the deminent type	(0) (
		Forest	ant Surrounding Lan Commer		Indicate the dominant type Trees Shrub	
		Field/P				iceous
WATERSHED		Agricult	tural Resident	tial	Floodplain Width	
FEATURES		Other:			✓ Wide > 30ft Mode	rate 15-30ft
		Canopy Co	over		Narrow <16ft	
		Partly o	: — ·	aded	Wetland Present _v Yes	No
		Shaded	<u>✓</u> Open		Wetland ID W-B28	
4011471037	DETATION:	Indicate the dominant type and record the dominant species present Rooted emergentRooted submergent ✓ Rooted floating Free fl				
AQUATIC VEGETATION Rooted emergent Floating algae			Attached algae		tingFree floating	
		Trout (fich)	nrecent in water feet	110		
		Trout (IISII)	present in water feat	ure.		
MACROINVER	RTEBRATES	3				
OR OTHER WILDLIFE						
OBSERVED/C						
NOTES	AND AND					
ĺ		1				



Photograph Direction SW

STREAM ID S-E50	STREAM NAME UNT to Gauley River
LAT 38.369517 LONG -80.612090	DATE 04/29/2015
CLIENT MVP	CLIENT MVP
INVESTIGATORS S Ryan, AJ Grech, H Heist	
FLOW REGIME Perennial ✓ Intermittent— Ephemeral —	WATER TYPE TNW RPW ✓ NRPW

			leasurements		Stream Erosion			
		Top of Bank Width: 4.0 ft			None Moderate	Heavy		
		Top of Ban	-		Artificial, Modified or Char	nelized		
		LB <u>1.0</u>	ft RB <u>1.0</u>	<u>ft</u>	Yes No			
CHANNEL FE	ATURES	Water Dept	h: 3.00 in		Dam Present ✓ Yes	No		
		Water Widt	h: <u>2.0 ft</u>		<u> </u>	_140		
		High Water	Mark: <u>5.0 in</u>		Sinuosity Low	Medium High		
		Flow Direct	ion: S		Gradient			
					Flat Moderate	✓ Severe		
		Water Pres			(0.5/100 ft (2 ft/100 ft) Proportion of Reach Repre	(10 ft/100 ft)		
			r, stream bed dry		Morphology Types	sented by Stream		
		Stream b	•		Riffle 85 % Run 0	%		
FLOW		Standing			Pool 15 %			
CHARACTERI	STICS	<u>✓</u> Flowing	water		Turbidity			
		Velocity			Clear Slightly	turbidTurbid		
					OpaqueStained			
		Slow			Other			
INOR		STRATE CO	-	ORGANIC SUBSTRATE COMPONENTS				
	(should a	add up to 100	•	(does not necessarily add up to 100%)				
Substrate Type	Diame	eter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock			1 0		sticks, wood, coarse	, ,		
Boulder	> 256	mm (10")	25	Detritus	plant materials (CPOM)	15		
Cobble	64-256 m	m (2.5"-10")	40	Muck-Mud	black, very fine organic			
Gravel	2-64 mm	า (0.1"-2.5")	15	WIGGK-WIGG	(FPOM)	0		
Sand	0.06-2r	nm (gritty)	10			0		
Silt		0.06 mm	10	Marl	grey, shell fragments			
Clay	< 0.004	mm (slick)						
			nt Surrounding Lan		Indicate the dominant type ✓ Trees Shrub			
		✓ Forest Commercial Field/Pasture Industrial			Grasses Herba			
		— Agricult				00000		
WATERSHED -		Other:	_		Floodplain Width Wide > 30ft Moder	rato 15 30ft		
		0			Narrow <16ft	ate 15-50it		
		Canopy Co		aded	_			
Shade			· <u> </u>		Wetland PresentYes Wetland ID W-E18	<u>✓</u> No		
		Indicate th	e dominant type and	d record the	dominant species present			
AQUATIC VEC	SETATION			Rooted subme		ing 🗸 Free floating		
				Attached alga		<u> </u>		

MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	Dam located off-ROW to SE. Stream feeds NWI-Mapped wetland. TWO DATA SHEETS RECORDED DUE TO CHANGES IN STREAM CHARACTERISTICS WITHIN ROW. Upstream section.
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Photograph Direction SW

STREAM ID S-E52	STREAM NAME UNT to Gauley River		
LAT 38.369090 LONG -80.611797	DATE 04/30/2015		
CLIENT MVP	CLIENT MVP		
INVESTIGATORS S Ryan, L Harloe, H Heist			
FLOW REGIME Perennial — Intermittent ✓ Ephemeral —	WATER TYPE TNW — RPW ✓ NRPW —		

Perennial _	_ Intermitte	nt <u> </u>	eral TNW —	RPW 🚣	NRPW —	
			_			
			/leasurements k Width: <u>3.0 ft</u>		Stream Erosion None Moderate	✓ Heavy
					NoneNoderate	<u>- Tieavy</u>
		Top of Ban	ŭ		Artificial, Modified or Char	nnelized
		LB <u>1.5</u>		<u>π</u>	Yes _ <u>✓</u> No	
Wa Hig			th: 1.00 in		Dam PresentYes _	✓ No
		Water Widt	h: <u>1.0 ft</u>		_ _	
		High Water	Mark: <u>3.0 in</u>		Sinuosity Low	Medium High
		Flow Direct	tion: SW		Gradient	
					Flat	Severe (10 ft/100 ft)
		Water Pres	- ont		(0.5/100 ft (2 ft/100 ft) Proportion of Reach Repre	·
			r, stream bed dry		Morphology Types	esented by Stream
		Stream I	ped moist		Riffle 10 % Run 80	%
FLOW		Standing	•		Pool 10 %	
CHARACTERISTICS		<u>✓</u> Flowing	water		Turbidity	
		Velocity			Clear Slightly	
			✓ Moderate		OpaqueStained	
		Slow			Other	
INOR		STRATE CO add up to 10	MPONENTS 0%)		RGANIC SUBSTRATE COM does not necessarily add u	-
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock				Dotrituo	sticks, wood, coarse	
Boulder	> 256 ı	mm (10")		Detritus	plant materials (CPOM)	
Cobble	64-256 m	m (2.5"-10")	5	Muck-Mud	black, very fine organic	
Gravel	2-64 mm	(0.1"-2.5")	20	Widok-Wida	(FPOM)	
Sand	0.06-2n	nm (gritty)	20			
Silt	0.004-0	0.06 mm	55	Marl	grey, shell fragments	
Clay	< 0.004 r	mm (slick)				
		Predomina ✓ Forest	ant Surrounding Lar Commer		Indicate the dominant type ✓ Trees Shrub	
		Field/P			Grasses Herba	
		Agricult		tial	_	
WATERSHED FEATURES		Other:		Floodplain Width Wide > 30ft Moderate 15-3		rate 15-30ft
		Canopy Co	ovor		✓ Narrow <16ft	
		<u>✓</u> Partly o	ppenPartly sh	aded		
		Shaded	Open		Wetland PresentYes Wetland ID	<u>✓</u> No
		Indicate th	e dominant type and	d record the d	lominant species present	
AQUATIC VE	GETATION	Rooted	emergent	Rooted subme	ergentRooted floa	tingFree floating
		Floating	g algae	Attached algae	e	
		Stream beg	gins and ends within F	ROW. Begins f	rom seep at logging road.	
MACDO::::::	TERRA					
MACROINVER OR OTHER	KIEBKATES	1				
WILDLIFE OBSERVED/C	THER					
OBSERVATION NOTES						
NOTES						
		•				



Photograph Direction <u>SW</u>

STREAM ID S-E49	STREAM NAME UNT to Gauley River			
LAT 38.365600 LONG -80.613177	DATE 04/29/2015			
CLIENT MVP	CLIENT MVP			
INVESTIGATORS S Ryan, AJ Grech, H Heist				
FLOW REGIME Perennial — Intermittent— Ephemeral	WATER TYPE TNW — RPW — NRPW ✓			

Perennial _	_ Intermitte	nt Epheme	eral 🗹 TNW 🔙	RPW —	NRPW <u>~</u>		
			Measurements		Stream Erosion		
		Top of Ban	k Width: 1.0 ft		<u>✓ None</u> <u>✓ Moderate</u>	Heavy	
Top of Bank Height: LB 4.0 in RB 4.0 in Water Depth: 0.00 in Water Width: 0.0 it High Water Mark: 4.0 ft Flow Direction: SE Gradient — Flat (0.5/100 ft (0.7/100 ft) (10 ft/100 ft) FLOW CHARACTERISTICS Water Present No water, stream bed dry Stram bed moist Standing water Flowing water Flowing water Flowing water Flowing water Flowing dad up to 100%)	nelized						
		LB <u>4.0</u>	<u>in</u> RB <u>4.0</u>	<u>in</u>		Yes No / Medium High Prate Severe (100 ft)	
CHANNEL EE	ATHRES	Water Dep	th: 0.00 in		_		
CHANNEL FE	ATURES	Water Widt	th: 0.0 ft		Dam PresentYes	<u> </u>	
		High Water	Mark: 4.0 ft		Sinuosity <u>v</u> Low	Medium High	
		ŭ			O		
		I low blice	lion. <u></u>			Severe	
						sented by Stream	
						0/2	
						70	
	ISTICS		•		,,,		
CHARACTERISTICS					Turbidity	According to the Control of the Cont	
			Madarata				
			Moderate		' '		
INOR	CANIC SUB					IDONENTS	
IIION		-		_			
_	Diame	ter			Characteristic	% Composition in Sampling Area	
Bedrock				Dataita	sticks, wood, coarse		
Boulder	> 256 ı	mm (10")		Detritus		80	
Cobble	64-256 m	m (2.5"-10")		Muck-Mud			
Gravel	2-64 mm	(0.1"-2.5")		Widok Widd	(FPOM)	U	
Sand	0.06-2n	nm (gritty)	30				
Silt	0.004-0).06 mm	60	Marl	grey, shell fragments		
Clay	< 0.004 r	` ,					
					Indicate the dominant type		
				ntial	_	33343	
		Other:				rate 15-30ft	
LATORES		C C				ate 15-50ft	
				haded	_		
		Shaded		Wetland PresentYes _✓ No Wetland ID			
		Indicate th	e dominant type a	nd record the c	lominant species present		
AQUATIC VE	AQUATIC VEGETATION		d emergent	_Rooted subme		ing Free floating	
-		Floating	g algae	Attached alga	e —		
				und repeatedly	along delineated length. Drai	ins to culvert to SE	
		at county ro	oad.				
MACROINVER	RTEBRATES	;					
OR OTHER WILDLIFE							
OBSERVED/C							
NOTES							



Photograph Direction $\underline{\text{NE}}$

STREAM ID S-E46	STREAM NAME Strouds Creek			
LAT 38.363356 LONG -80.616631	DATE 04/28/2015			
CLIENT MVP	CLIENT MVP			
INVESTIGATORS S Ryan, AJ Grech, H Heist				
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW ✓ NRPW			

Perenniai -		nt <u> — Epnem</u>	erai rivvv	RPW —	NRPW —		
			Measurements		Stream Erosion	Harris	
			k Width: 30.0 ft		<u>✓</u> None <u>✓</u> Moderate	Heavy	
		Top of Ban	k Height:		Artificial, Modified or Char	nnelized	
		LB <u>4.0</u>	ft RB <u>8.0</u>	<u>ft</u>	Yes ⊂ <u></u> No		
CHANNEL FE	ATURES	Water Dep	th: 2.00 ft				
CHARRELLE	ATORES	Water Widt	h: 22.0 ft		Dam PresentYes _	<u>∕</u> No	
			Mark: 3.0 ft		Sinuosity Low	Medium High	
		Ü	tion: Southeast		· — —	_ •	
		Flow Direct	lion: Godinador		Gradient Flat _✓ Moderate _	Sovoro	
					(0.5/100 ft (2 ft/100 ft)		
		Water Pres	sent		Proportion of Reach Repre	esented by Stream	
			r, stream bed dry		Morphology Types	-	
			bed moist		Riffle 50 % Run 35 Pool 15 %	%	
FLOW		Standing	•		Pool 15 %		
CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity		
		Velocity			Clear Slightly		
			✓ Moderate		OpaqueStained		
		Slow			Other		
INOR		STRATE CO add up to 10	MPONENTS 0%)	_	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock			Sampling Reach	Type	- Halia was di assau	Sampling Area	
Boulder	> 256	mm (10")	30	Detritus	sticks, wood, coarse plant materials (CPOM)	5	
Cobble	64-256 m	m (2.5"-10")	35	Manada Manad	black, very fine organic	_	
Gravel	2-64 mm	(0.1"-2.5")	5	Muck-Mud	(FPOM)	0	
Sand	0.06-2n	nm (gritty)	m (gritty) 15			_	
Silt	0.004-0	0.06 mm	5	Marl	grey, shell fragments	0	
Clay	< 0.004 ı	mm (slick)	10	1			
		Predomina	ant Surrounding Lar	iduse	Indicate the dominant type	(Check one)	
		<u>✓</u> Forest	Commer	cial	<u>✓</u> Trees Shrub		
		— Field/P	- · · · · · · - · · · · · · · · · · · ·		Grasses Herba	ceous	
WATERSHED		Agricult Other:	tural <u>v</u> Residen	uai	Floodplain Width		
FEATURES		_ 00101.			✓ Wide > 30ft Moderate 15-30ft		
		Canopy Co			Narrow <16ft		
		<u>✓</u> Partly o	. — <u> </u>	aded	Wetland PresentYes	∨ No	
		Shaded	OpenOpen		Wetland ID	_	
					lominant species present		
AQUATIC VE	GETATION		_	Rooted subme	<u> </u>	tingFree floating	
Floating algae		g algae	Attached algae	2			
		Flow direct	ion more SE than E.				
MACROINVER OR OTHER	RTEBRATES						
WILDLIFE OBSERVED/C	THED						
OBSERVATIO							
NOTES							



Photograph Direction SE

STREAM ID S-F21	STREAM NAME Barn Run
LAT 38.355822 LONG -80.633677	DATE 04/28/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Flake, D. McCullough, E.	Strohmaier
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW_✓ NRPW

Perennial <u>*</u>	Intermitte	nt Epheme	eral <u> </u>	TNW	RPW <u>✓</u>	NRPW		
	,							
						Stream Erosion		
		Top of Ban	k Width	1: <u>4.0 ft</u>		NoneModerate	<u>✓</u> Heavy	
Top of Bank Width: 4.0 ft Top of Bank Height: LB 2.0 ft RB 2.0 ft Water Depth: 8.00 in Water Width: 2.0 ft High Water Mark: 3.0 ft Flow Direction: East Water Present No water, stream bed dry Stream bed moist Standing water ✓ Flowing water ✓ Flowing water ✓ Flowing water ✓ Flowing water ✓ Stream bed moist Standing water ✓ Flowing water ✓ Flowing water ✓ Flowing water ✓ Slow ✓ Popaque Slow ✓ Popaque Slow ✓ Popaque Slow ✓ Character Slow ✓ Character Slow ✓ Character Type Diameter ✓ Poportion of Morphology Tr Riffle Pool Turbidity ✓ Clear ✓ Opaque — Other — Other — Other Substrate Type Diameter ✓ Pomposition in Sampling Reach ✓ Poportion of Morphology Tr Riffle Pool ✓ Clear — Opaque — Other — Other — Other — Other — Other — Other Detritus ✓ Character Sticks, we plant mater Cobble 64-256 mm (10") Gravel ✓ 2-64 mm (0.1"-2.5") ✓ Sand ✓ 0.06-2mm (gritty) Silt ✓ 0.004-0.06 mm ✓ 40 Marl ✓ grey, shell Clay ✓ Sand ✓ Marl ✓ grey, shell	Artificial. Modified or Char	nnelized						
	LB <u>2.0</u>		Estimate Measurements Top of Bank Width: 4.0 ft Top of Bank Height: LB 2.0 ft RB 2.0 ft Water Depth: 8.00 in Water Width: 2.0 ft High Water Mark: 3.0 ft Flow Direction: East Water Present No water, stream bed dry Stream bed moist Standing water ✓ Flowing water ✓ Flowing water ✓ Flowing water ✓ Flowing water ✓ Standing water ✓ Flowing water ✓ Flow Moderate Severe water ✓ Flowing water ✓ Flowing water ✓ Flowing					
CHANNEL EE	Estimate Measurements Top of Bank Width: 4.0 ft Top of Bank Height: LB 2.0 ft RB 2.0 ft Water Depth: 8.00 in Water Width: 2.0 ft High Water Mark: 3.0 ft Flow Direction: East Gradient Flow Direction: East Moderate Co.51000 m) (10 0 0 0 0) (10 0 0) (10 0 0 0) (10 0 0 0) (10 0 0 0) (10 0 0 0) (10 0 0 0) (10 0 0) (10 0 0 0) (10 0 0 0) (10 0 0 0) (10 0 0 0) (10 0 0 0) (10 0 0) (10 0 0 0) (10 0 0) (10 0 0) (10 0 0 0) (10 0 0) (10 0 0) (
CHANNEL FE	ATUKES	·				Dam PresentYes _	<u>∕</u> No	
						Sinuosity Low	Medium High	
		ı				<u> </u>		
		Flow Direction. Last					Severe	
							sented by Stream	
						. 0, ,.	0/	
							70	
	ICTICS		_			70		
CHARACTERI	151105	<u> </u>				Turbidity		
						- 1 - 1		
INOR	CANIC SUB	_	MDON	ENTS	_		ADONENTS	
INOR					_			
_	Diame	Diameter				Characteristic		
Bedrock					Detritue			
Boulder	> 256	mm (10")			Detilius	plant materials (CPOM)		
Cobble	64-256 m	4-256 mm (2.5"-10")			Muck-Mud			
Gravel	2-64 mm	ı (0.1"-2.5")			Maok Maa	(FPOM)		
	0.06-2n	nm (gritty)						
Silt	0.004-0).06 mm		10	Marl	grey, shell fragments		
Clay	< 0.004 ı	` ,						
			ınt Sur	rounding Lan	iduse rcial			
		_	asture			—		
					tial	<u> </u>		
WATERSHED FEATURES		Other:					rate 15-30ft	
		Conony C					rato ro con	
				Partly sha	aded			
							<u>✓</u> No	
		— welland ID						
AQUATIC VEGETATION							ting Free floating	
		Floating	g algae	;	Attached alga	e —		
					comes subteri	ranean via culvert from when	it hits property to	
		when it me	rges wi	th S-F20.				
MACROINVER	RTEBRATES	i						
OR OTHER WILDLIFE								
OBSERVED/C								
NOTES								
		I						



Photograph Direction SE

STREAM ID S-F20	STREAM NAME Barn Run
LAT 38.355817 LONG -80.633235	DATE 04/28/2015
CLIENT MVP	PROJECT NAME MVP
INVESTIGATORS A. Flake, D. McCullough, E.	Strohmaier
FLOW REGIME Perennial ✓ Intermittent — Ephemeral —	WATER TYPE TNW RPW_✓ NRPW

refellillal 2	_ ппенние	nt — Epnem	erai INW —	RPW —	NRPW —	
	-					
			leasurements (Stream Erosion	
		Top of Ban	k Width: 10.0 ft		NoneModerate	<u>▶</u> Heavy
		Top of Ban	k Height:		Artificial, Modified or Char	nnelized
		LB <u>4.0</u>	ft RB <u>4.0</u>	•.	✓ YesNo	
CHANNEL FE	ATHRES	Water Dep	th: 1.00 ft			
CHANNEL FE	ATURES	Water Widt	h: 4.0 ft		Dam PresentYes	<u>∠</u> No
			Mark: 1.0 ft		Sinuosity 🗸 Low	Medium High
		•				
		Flow Direct	tion: Southeast		Gradient	0
					<u>✓</u> FlatModerate (2 ft/100 ft)	
		Water Pres	sent		Proportion of Reach Repre	,
			r, stream bed dry		Morphology Types	occiniou by Guroum
FLOW		Stream I	oed moist		Riffle 15 % Run 85	%
		Standing	•		Pool %	
CHARACTERISTICS		<u>✓</u> Flowing	water		Turbidity	
		Velocity			Clear Slightly	turbidTurbid
			✓ Moderate		OpaqueStained	
		Slow			Other	
INOR		-	MPONENTS	0	RGANIC SUBSTRATE CON	/IPONENTS
(should add up to 100%)			0%)	(c	loes not necessarily add u	p to 100%)
Substrate Type	Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition ir Sampling Area
Bedrock				Detritue	sticks, wood, coarse	
Boulder	> 256 ı	mm (10")		Detritus	plant materials (CPOM)	25
Cobble	64-256 m	m (2.5"-10")	5	NA. ala NA. al	black, very fine organic	
Gravel	2-64 mm	(0.1"-2.5")	20	Muck-Mud	(FPOM)	
Sand	0.06-2n	nm (gritty)	25			
Silt		0.06 mm	25	Marl	grey, shell fragments	
Clay	< 0.004 r	mm (slick)	25			
		Predomina	ant Surrounding Lar	iduse	Indicate the dominant type	(Check one)
		Forest	Commer	cial	Trees Shrub	S
		<u>✓</u> Field/P			<u>✓</u> Grasses Herba	iceous
WATERSHED		— Agricult	tural Residen		Floodplain Width	
FEATURES		Other:				rate 15-30ft
		Canopy Co	over		✓ Narrow <16ft	
		Partly o		aded	Wetland PresentYes	No
		ShadedV Open			Wetland ID	<u>v</u> No
		Indicate th	e dominant type and		Iominant species present	
AQUATIC VE	GETATION			Rooted subme		ting Free floating
Floating algae		Attached algae	 e	_		
		Culverts ins	stalled at three crossi	ngs.		
MACROINVER	RTEBRATES					
OR OTHER WILDLIFE						
OBSERVED/C						
OBSERVATION NOTES	NS AND					



Photograph Direction $\underline{\mathsf{NW}}$

STREAM ID	STREAM ID S-IJ57			STREAM NAME UNT to Barn Run				
CLIENT MVI	CLIENT MVP			PROJECT NAME MVP				
LAT 38.35236 LONG -80.636397 INVESTIGATORS E. Foster, S. Ryan, A. Ca					COUNTY Nicholas			
INVESTIGATO	DRS E. Fo	oster, S. Ryan, A	Carrano					
WATER TYPE TNW RPW NRPW SETIMATE Measure			FLOW REG Perennial		tent Ephemeral			
CHANNEL FE	Estimate Measurer Top of Bank Width: Top of Bank Height: LB1.5ft Water Depth:2.00 Water Width:2.5 Ordinary High Water Ordinary High Water Flow Direction:Eas			ft 3.5ft):8.0in 	SinuosityLowMediumHigh GradientFlatModerateSevere (0.5/100 ft) (2 ft/100 ft) (10 ft/100 ft) Stream ErosionNoneModerateHeavy Artificial, Modified or ChannelizedYesNo Within Roadside DitchYesNo Culvert PresentYesNo Culvert Material: Culvert Size:in Proportion of Reach Represented by Stream			
FLOW CHARACTERISTICS — No water, stream Stream bed moist Standing water Velocity Velocity		stream bed dry d moist vater		Proportion of Reach Repres Morphology Types (Only ente Riffle 30 % Run 50 Pool 20 % Turbidity Clear Slightly tu Other	er if water present) %			
INOR	INORGANIC SUBSTRATE COMPOI (should add up to 100%)				ORGANIC SUBSTRATE COM (does not necessarily add up	-		
Substrate Type	Dia	meter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock		- ((20)		Detritus	sticks, wood, coarse			
Boulder		56 mm (10")		-	plant materials (CPOM)	5		
Crovel		3 mm (2.5"-10")	20	Muck-Mud	black, very fine organic (FPOM)			
Gravel Sand		mm (0.1"-2.5") -2mm (gritty)	20		(i i Oivi)			
Sand		-2mm (gritty) 04-0.06 mm	30	Marl	grey, shell fragments			
Clay		04-0.06 mm 04 mm (slick)	30	IVIAII	giey, sileii iragineina			
WATERSHED FEATURES		Predominant Forest Field/Past Agricultura ROW Canopy Cove Open Shaded	Residential Other:	al .	Floodplain Width Wide > 30ft Modera V Narrow <15ft	ate 15-30ft		
MAC	ROINVER	TEBRATES/OT	HER WILDLIFE OBS	SERVED OR	OTHER NOTES AND OBSER	VATIONS		
Macros observe	ed. Crayfis	sh burrows also p		ydrologically	to S-IJ58 via underground flov			



Photograph Direction West

			-				-
	STREAM ID S-IJ59			STREAM NAME UNT to Barn Run			
CLIENT MV				PROJECT N	AME MVP		
LAT 38.34849	LAT 38.348496 LONG -80.64122 INVESTIGATORS E. Foster, A. Carrano, S				2016	COUNTY Nicholas	
INVESTIGATO	ORS E. Fo	oster, A. Carrano	, S. Rya	an			
TNW	RPW [NRPW	v	FLOW REG Perennial		nittent Ephemeral	
CHANNEL FE	ATURES	Estimate Mea Top of Bank V Top of Bank I LB5.0 f Water Depth: Water Width:_ Ordinary High Ordinary High Flow Direction	Width: Height: t 0.00 0.0 n Water n Water n: _North	7.0 ft RB 5.0 in ft Mark (Width): Mark (Height)	ft	Gradient Flat Moderate (0.5/100 ft) (2 ft/100 ft) (10 ft) Stream Erosion Moderate Pleavy Artificial, Modified or Channelized No Within Roadside Ditch Yes No Culvert Present Yes No Culvert Material: Culvert Size:in	High Severe (100 ft)
FLOW CHARACTERISTICS Water Present No water, stream Stream bed mois Standing water Flowing water Velocity Fast Slow Mater Present Moder Stream bed mois Mater Present Velocity Fast Moder Slow			stream b d moist vater ater			Proportion of Reach Represented by Str Morphology Types (Only enter if water prese Riffle % Run % Pool % Turbidity Clear Slightly turbid Tu Other	ent)
INOR	INORGANIC SUBSTRATE COMPO (should add up to 100%)		_	_		ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)	
Substrate Type	Dia	meter		omposition in opling Reach	Substra Type	I Characteristic I '	
Bedrock	. 01	50 (40II)	30		Detritus	sticks, wood, coarse plant materials (CPOM)	
Boulder Cobble		56 mm (10") 6 mm (2.5"-10")	30	<u> </u>		, , , 10	
Gravel		mm (0.1"-2.5")	20		Muck-Mu	d black, very fine organic (FPOM)	
Sand		-2mm (gritty)	10			, ,	
Silt		04-0.06 mm	10		Marl	grey, shell fragments	
Clay		04 mm (slick)	0				
WATERSHED FEATURES		Predominant ✓ Forest — Field/Past — Agricultura — ROW Canopy Cove — Open ✓ Shaded	ture _ al _	unding Landu Commercia Industrial Residential Other: Partly shad	ıl	Floodplain Width Wide > 30ft Moderate 15-30ft Narrow <15ft	
MAC	ROINVER	TEBRATES/OT	HER W	ILDLIFE OBS	ERVED OF	R OTHER NOTES AND OBSERVATIONS	
No macros. De							



Photograph Direction SE

STREAM ID S-IJ60			STREAM NA	STREAM NAME UNT to Rockcamp Run				
CLIENT MVP			PROJECT N	PROJECT NAME MVP				
LAT 38.34355		ONG -80.64465	1 DATE 08/17/	/2016	COUNTY Nicholas			
INVESTIGATORS E. Foster, S. Ryan, A. Carrano								
WATER TYPE TNW NRPW NRPW Intermittent Ephemeral Intermittent Ephemeral								
CHANNEL FEATURES		Estimate Measurements Top of Bank Width:8.0 ft Top of Bank Height: LB1.5 ft		<u>5.5</u> ft	SinuosityLowMediumHigh GradientFlatModerateSevere (0.5/100 ft) (2 ft/100 ft) (10 ft/100 ft) Stream ErosionModerateHeavy Artificial, Modified or ChannelizedYesNo Within Roadside DitchYesNo Culvert PresentYesNo Culvert Material: Culvert Size:in			
FLOW CHARACTERISTICS		Water Present No water, stream bed dryStream bed moistStanding waterFlowing water VelocityFastModerate Slow			Proportion of Reach Represented by Stream Morphology Types (Only enter if water present) Riffle 70 % Run 10 % Pool 20 % Turbidity Clear Slightly turbid Turbid Other			
INORGANIC SUBSTRATE COMPON (should add up to 100%)				ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)				
Substrate Type	Dia	meter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock Boulder	> 25	56 mm (10")	75	Detritus	sticks, wood, coarse plant materials (CPOM)	5		
Cobble		mm (2.5"-10")	10		black, very fine organic	<u> </u>		
Gravel		nm (0.1"-2.5")	10	Muck-Mud	(FPOM)			
Sand	0.06-	-2mm (gritty)						
Silt	0.00	4-0.06 mm	5	Marl	grey, shell fragments			
Clay	< 0.00	04 mm (slick)						
WATERSHED FEATURES WATERSHED FEATURES Predominant Surro ✓ Forest — Field/Pasture — Agricultural — ROW Canopy Cover — Open ✓ Shaded			Residential Other:	al	Floodplain Width Wide > 30ft Modera Narrow <15ft	ite 15-30ft		
MACI	ROINVER	TEBRATES/OT	HER WILDLIFE OBS	ERVED OR	OTHER NOTES AND OBSER	RVATIONS		
Prevalent salamanders, minnows, and crawfish. Narrow fringe of emergent vegetation along bank, but soils do not qualify as hydric. Recent floods and heavy rains may have deposited sediments along banks- stream bed mostly shale bedrock.								



Photograph Direction South

STREAM ID S-IJ62			STREAM NAME UNT to Cherry Run					
CLIENT MVP			PROJECT NAME MVP					
LAT 38.34352 LONG -80.647018			DATE 08/17/2016 COUNTY Nicholas					
INVESTIGATORS E. Foster, S. Ryan, A. Carrano								
WATER TYPE TNW RPW NRPW				FLOW REGIME Perennial Intermittent For Ephemeral Intermittent				
		Width: _ Height: t	3.0 ft RB2.0 ft o in ft er Mark (Width):2.5 ft er Mark (Height):4.0 in		SinuosityLowMediumHigh GradientFlatModerateSevere (2 ft/100 ft) (10 ft/100 ft) Stream ErosionNoneModerateHeavy Artificial, Modified or ChannelizedYesNo Within Roadside DitchYesNo Culvert PresentYesNo Culvert Material: Culvert Size:in			
FLOW CHARACTERISTICS Water PresentNo water, streStream bed mStanding water ✓ Flowing water VelocityFastN _✓ Slow			stream t d moist vater	ut		Proportion of Reach Represented by Stream Morphology Types (Only enter if water present) Riffle 80 % Run 10 % Pool 10 % Turbidity ClearSlightly turbidTurbid Other		
INORGANIC SUBSTRATE COMPOR (should add up to 100%)				_		ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Dia			Composition in mpling Reach	Substra Type	i (:nai	racteristic	% Composition in Sampling Area
Bedrock					Detritus		s, wood, coarse	
Boulder		56 mm (10")			20111100	plant materials (CPOM) black, very fine organic (FPOM)		10
Cobble		6 mm (2.5"-10")	20	0	Muck-Mu			
Gravel		mm (0.1"-2.5")	30					
Sand		-2mm (gritty)	30	0				
Silt		04-0.06 mm	1(Marl	grey	shell fragments	
WATERSHED FEATURES WATERSHED FEATURES Canopy Canopy Compen		Predominant Forest Field/Past Agricultura ROW Canopy Cove	ral Residential Other:		Floodplain Width Wide > 30ft Moderate 15-30ft Narrow <15ft			
MAC		TERDATESIOT	HED IV	VII DI IEE OBS	EDVED OF	OTUED NO	TES AND OPSER	PVATIONS
MACROINVERTEBRATES/OTHER WILDLIFE OBSERVED OR OTHER NOTES AND OBSERVATIONS Groundwater fed. Emerges from underground and goes back underground in several places.								
Stouriuwater le	.a. Emery	oo nom unuergit	Juliu di	na gues bauk t	anderground	a in Several p		



Photograph Direction SE

STREAM ID S-B28	STREAM NAME Cherry Run					
LAT 38.340059 LONG -80.655270	DATE 04/29/2015					
CLIENT MVP	PROJECT NAME MVP					
INVESTIGATORS E. Foster, K. Lamontagne, C. Ansari						
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW ✓ NRPW					

Perennial _	Intermitte	nt Ephem	eral <u> </u>	TNW	RPW 🖊	NRPW				
		Estimate Measurements				Stream Erosion				
		Top of Bank Width: 10.0 ft				NoneModerate	<u>▶</u> Heavy			
		Top of Ban	k Heigl	nt:		Artificial, Modified or Chai	nnelized			
		LB <u>6.0 ft</u> RB <u>4.0 ft</u>			<u>ft</u>	<u>✓</u> Yes No				
CHANNEL FE	ATURES	Water Dep	th: <u>1.5</u>	0 ft		Daw Barand Van	. N			
		Water Widt	h: 5.0	ft		Dam PresentYes	<u>√</u> NO			
		High Water Mark: 2.0 ft				Sinuosity Low	Medium 🔽 High			
		Flow Direct	tion: E	ast		Gradient				
		Tiew Birection.				✓ FlatModerateSevere				
						(0.5/100 ft (2 ft/100 ft) (10 ft/100 ft)				
		Water Pres		m had da.		Proportion of Reach Represented by Stream				
		Stream I		m bed dry		Morphology Types Riffle 10 % Run 80	%			
		Standing				Pool 10 %				
FLOW CHARACTER	ISTICS	Flowing	_							
						Turbidity Clear Slightly	turbidTurbid			
		Velocity Fast	✓ Mc	oderate		OpaqueStained				
		Slow		derate		Other				
INOR	GANIC SUB	STRATE CO	MPON	ENTS	0	ORGANIC SUBSTRATE COMPONENTS				
		add up to 100%)				(does not necessarily add up to 100%)				
Substrate Type	Diame	ter % Composition in Sampling Reach			Substrate Type	Characteristic	% Composition in Sampling Area			
Bedrock					Detritus	sticks, wood, coarse				
Boulder	> 256 ı	mm (10")			Detritus	plant materials (CPOM)	5			
Cobble	64-256 mm (2.5"-10")				Muck-Mud	black, very fine organic				
Gravel	2-64 mm (0.1"-2.5")					(FPOM)				
Sand	0.06-2mm (gritty)									
Silt		0.06 mm	100		Marl	grey, shell fragments				
Clay	< 0.004 r	nm (slick)								
		Predomina ✓ Forest	ant Sui	rrounding Lan Commer		Indicate the dominant type Trees Shrub	e (Check one)			
		✓ ForestConfinence ✓ Field/PastureIndustrial Agricultural Residenti				Grasses Herbaceous				
						<u> </u>				
WATERSHED FEATURES		Other:				Floodplain Width Wide > 30ft Narrow <16ft Wide > 30ft				
		Canany C	27.02							
		Canopy Cover Partly open Partly shade			aded	ded				
		ShadedOpen				Wetland Present <u>✓</u> YesNo Wetland ID _{W-827}				
AQUATIC VEGETATION		Indicate the dominant type and record the dominant species present								
		Rooted emergentRooted submergent Rooted floating \checkmark Free floating								
		Floating algae Attached algae								
		Fish/inverte	brates	present. Silt fe	ence crosses s	stream at centerline.				
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES										



Photograph Direction East

STREAM ID S-B26	STREAM NAME UNT to Cherry Run					
LAT 38.339049 LONG -80.659720	DATE 04/28/2015					
CLIENT MVP	PROJECT NAME MVP					
INVESTIGATORS E. Foster, K. Lamontagne, C. Ansari						
FLOW REGIME Perennial Intermittent Ephemeral	WATER TYPE TNW RPW ⊻ NRPW					

CHANNEL FEATURES		Estimate Measurements Top of Bank Width: 4.0 ft			Stream ErosionNone Moderate Heavy			
		•			NoneModerate	neavy		
		Top of Ban	· ·	Artificial, Modified or Channelized				
		LB <u>1.0</u>		<u>ft</u> .	Yes _ <u>✓</u> No			
		Water Dep	th: 1.00 ft		Dam Present Vos -/ No			
		Water Widt	h: 4.0 ft		Dam PresentYes <u>✔</u> No			
		High Water	Mark: <u>13.0 in</u>		Sinuosity Low	Medium High		
		Flow Direct	tion: North		Gradient			
					<u>✓</u> FlatModerateSevere			
		Water Pres			, ,	(10 ft/100 ft)		
			r, stream bed dry		Proportion of Reach Represented by Stream Morphology Types Riffle % Run 95 %			
			ped moist					
FLOW		Standing	•		Pool 5 %			
CHARACTER	ISTICS	<u>✓</u> Flowing	water		Turbidity			
		Velocity			ClearSlightly	turbid <u></u> Turbid		
		Fast	Moderate		OpaqueStained			
		<u>✓</u> Slow			Other			
INOR		-	MPONENTS	ORGANIC SUBSTRATE COMPONENTS				
Cubatrata	(snoula a	add up to 10	, , , , , , , , , , , , , , , , , , ,	-	loes not necessarily add u			
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock				Datate	sticks, wood, coarse			
Boulder	> 256	mm (10")		Detritus	plant materials (CPOM)	5		
Cobble	64-256 m	m (2.5"-10")		- Muck-Mud	black, very fine organic			
Gravel	2-64 mm	(0.1"-2.5")			(FPOM)	0		
Sand	0.06-2n	nm (gritty)	10		grey, shell fragments	0		
Silt	0.004-0	0.06 mm	90	Marl				
Clay	< 0.004 i	mm (slick)						
		Predomina Forest	ant Surrounding Lar Commer					
			astureIndustria		Grasses Herbaceous Floodplain Width Wide > 30ft Moderate 15-30ft			
		Agricult		tial				
WATERSHED FEATURES		Other:		ı				
		Canopy Co	over.		Narrow <16ft			
		Partly of		aded				
		Shaded			Wetland Present No Wetland ID W-b26 and w-b26-pem			
		Indicate the dominant type and record the dominant species present						
AQUATIC VE	GETATION							
		Floating algae Attached algae						
		Fish preser	nt in the water feature					
MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES								