Survey Descriptio	n									
Project Name:		Waterb	ody Nam	ne:		v	Vaterbody ID:			Date:
Southeast Reliabilit	•	Fink R	Run			S	SUPA001			6/23/2014
State:	County/Paris	h:		Company			Member Initials	:	Photos:	
West Virginia	Upshur				esource Group	GB, I			3	
Tract Number(s):				Nearest Mile	epost:		Associated W	etland	ID(s)	
Highway 33 ROW,	03-27			22.0			none			
Survey Type: (check one)	⊠Cente	erline	□Re-R	oute	□Access Road	ł	□Other:			
Physical Attribute										
Stream Classification: (check one)	□Ephe	meral	□Interr	nittent	⊠Perennial					
Waterbody Type:										
(check one)	□River ⊠	Stream	Ditch	n 🗆 Ca	anal 🗌 Other	:				
OHWM Width:	OHWM In (check all that			Clear lir	ne ⊠Shelvin	a	⊠Wrested	X	Scouring	g ⊡Water
<u>10.0</u> ft.				on bank		.9	vegetation			staining
Height: 2.5 ft.		ent, matted, c	or missing	g ⊠Wrack li		nd	Abrupt plan		□Soil c	haracteristic change
N/A□	-	tation			debris		community ch	lange		
Width of Waterbody - Bank to Top of Bank:		dth of Water Toe of Slope		oe of Slope	Width of Waterb Water Edge:	ody - V	Vater Edge to	Depth (Approx.)	of Water	:
•	10				-			())		20 #
<u>16.0</u> ft.		<u>_7.0_</u> ft.			N/A□	<u>9.0_</u> ft.		N/A□		<u>2.0</u> ft.
Sinuosity:	Wa	ater velocity	:		Bank height			Bank s	lope	
(check one)	(Ap	prox.)			Right:				Right	
		_2	<u>2.0</u> fps		Left:	<u>4.0</u> ft			Left	60_degrees
⊠Meanderi	ing N//	A □				<u>4.0_</u> ft.				65 degrees
Qualitative Attribu	utes									
Water Appearance: (check one)	☐No water	□Clear	⊠Turbi			irface um	□Algal I mats	□Othe	r:	
	Bedrock	Boulder	⊠ Cobbl	e 🛛 Grave	el 🛛 Sand	Silt/	clay 🗆 Organic	: □ (Other:	
(check all that apply) % of Substrate:	%	%	<u>5</u> %	_ <u>5_</u> %	<u>10</u> %	<u> 80 </u> %	%	_	_%	
Width of Riparian Zon	e: Veget	ative Layers								
	(check a	Il that apply)		⊠ Trees	: (⊠ Sapli	ngs/Shrubs:	\boxtimes	Herbs	
<u>35 ft</u> - N/A□	Avg. [(approx.	DBH of Dom	inants:	<u>7.0</u> in.		_ 0.50	in.		in.	
Dominant Bank Vegeta	ation (list):									
Sycamore, black w	illow, boxelo	der, multifl	ora rose	e, Morrow	's honeysuckle	, autu	mn olive, stilt	grass	, reed (grass, wingstem
Aquatic Habitats (ex: s						cks, large	e submerged wood	, riffles,	deep pool	s):
Pools, riffles, wrack	k piles in ch	annel, ove	rhangir	ng roots ar	nd banks					
Aquatic Organisms Ob	oserved (list):									
Frogs										
T&E Species Observed	d (list):									
none										
Disturbances (ex: livest	tock access, mar	nure in waterbo	ody, waste	discharge pipe	es):					
Parallels highway 3	33 at the ba	se of road	fill, son	newhat ch	annelized as a	result	t			
Tributary is: (check one)	Natu	ral	□ Arti	ficial, man-m	ade 🛛 Manip	ulated				
Stream Quality ^a : (check one)	□ Higł	<u></u> ו	⊠ Mo	derate	□ Low					

Waterbody ID:

SUPA001

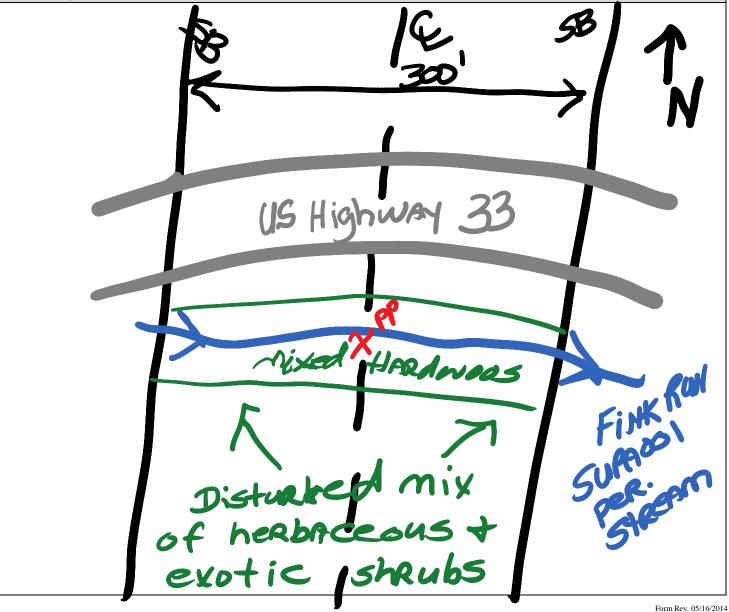
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Fink Run, continues out of corridor in both directions





Waterbody SUPA001 facing west upstream



Waterbody SUPA001 facing east downstream



Waterbody SUPA001 facing north across

Survey Description	n									
Project Name:			ody Nam				Waterbody ID:			Date:
Southeast Reliabilit	у	Unnan	ned Tril	butary to F	ink Run		SUPA002		e	6/23/2014
State:	County/Parish:	•		Company		Crew	/ Member Initials	s:	Photos:	
West Virginia	Upshur			Natural Re	esource Gro	ıp GB,	LE		3	
Tract Number(s):				Nearest Mile	epost:		Associated W	/etland	ID(s)	
03-031, 03-033				22.7			WUPA001			
Survey Type: (check one)	⊠Centerl	ine	□Re-R	oute	□Access Ro	ad	□Other:			
Physical Attributes	s									
Stream Classification: (check one)	Ephem	eral	⊠Intern	nittent	□Perennial					
Waterbody Type:	•									
	River 🛛 S	Stream	Ditch	n 🗆 Ca	anal 🛛 🗆 Otl	ner:				
онwм	OHWM Indi									
Width: <u>3.0</u> ft.	(check all that a	оріу)		Clear lir on bank	ne ⊡Shel	ving	⊠Wrested vegetation		Scouring	l □Water staining
Height:			r missing	∣ ⊡Wrack li		r and	⊠Abrupt plar		□Soil ch	naracteristic change
<u>1.25_</u> ft. N/A□	vegeta	tion			debris		community cl	nange		
Width of Waterbody - T	op of Widt	h of Water	body - T	oe of Slope	Width of Wate	rbody -	Water Edge to		of Water	:
Bank to Top of Bank:	to To	be of Slope			Water Edge:			(Approx.,)	
<u>4.0</u> ft.		_2.5_	ft.		N/A□	<u>2.5_</u> ft		N/A□	-	<u>1.0</u> ft.
Sinuosity:	Wate	er velocity:			Bank height			Bank s	slope	
(check one)	(Appro				Right				Right	•
		1	. <u>0_</u> fps		Left	2.5_	ft.		Left	<u>85</u> degrees
⊠Meanderir	ng N/A				Len	<u>2.5_</u> f	ft.		Len	<u>75</u> degrees
Qualitative Attribu	tes									
Water Appearance: (check one)	No water	Clear	⊠Turbi	d ⊡Sh	ieen 🗆	Surface	□Algal	□Othe	r:	
				on	surface	scum	mats			
Substrate:	Bedrock	Boulder		e 🛛 Grave	el 🛛 🖾 Sand	Silt/	clay 🗆 Organio		Other:	
% of Substrate:	%	%	<u>5</u> %	_ <u>5</u> _%	<u> 10 </u> %	80	<u>%</u> _%		%	
Width of Riparian Zone		ive Layers:	:							
ft.	(check all t	hat apply) 3H of Domi	nants:				lings/Shrubs:	\boxtimes	Herbs	
N/A⊠	(approx.)		nanto.	in.		0.5	<u>0_</u> in.		in.	
Dominant Bank Vegeta black willow, multifle		row's ho	noveuc	kle autum	n olive catt	ail roo	d arass aarim		soft rush	
			•				• •			
Aquatic Habitats (ex: su Pools, emergent ve		ged aquatic \	egetation/	, overnanging	banks/roots, lear	packs, larg	ge submerged wood	a, rittles,	deep pools	;):
, 0	0									
Aquatic Organisms Ob	served (list):									
Frogs										
T&E Species Observed	l (list):									
none										
Disturbances (ex: livesto	ock access, manu	re in waterbo	dy, waste	discharge pipe	es):					
Heavy impact by ca	attle, manure	in stream	ו							
Tributary is: (check one)	Natura	I	□ Artii	ficial, man-m	ade 🔤 🗆 Ma	nipulated				
Stream Quality ^a : (check one)	□ High			lerate	⊠ Low					
r í	r iigi i									

Waterbody ID: SUPA002

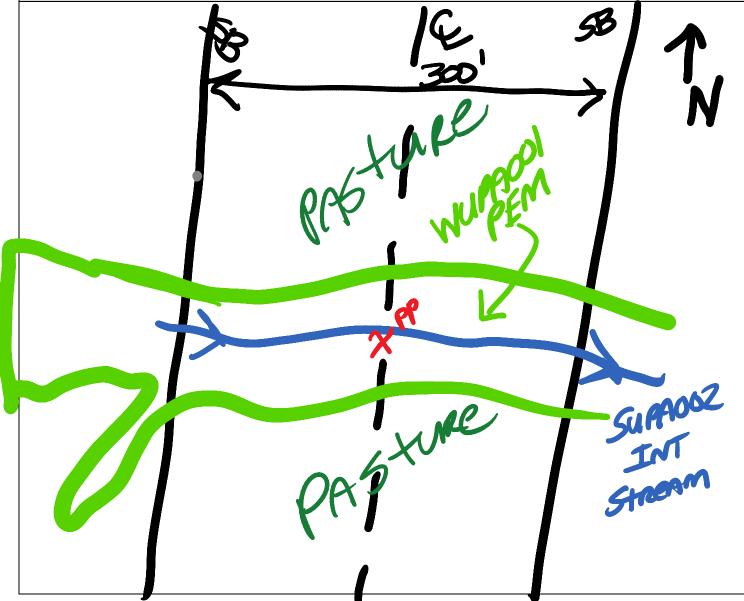
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Unnamed Tributary to Fink Run, continues out of corridor in both directions, runs through PEM wetland WUPA001





Waterbody SUPA002 facing west upstream



Waterbody SUPA002 facing east downstream



Waterbody SUPA002 facing south across

Survey Descriptio	n										
Project Name:			ody Name					/aterbody ID:			Date:
Southeast Reliabilit	У	Unnan	ned Trib	utary to E	Brushy	Fork	S	UPA004		e	6/24/2014
State:	County/Paris	h:		ompany				Member Initials	5:	Photos:	
West Virginia	Upshur			latural Re	esourc	e Group	GB, L	E		3	
Tract Number(s):			N	earest Mile	epost:			Associated W	etland	ID(s)	
03-034			2	3.0				Outflow from	n wet	land Wl	JPA002
Survey Type: (check one)	⊠Cente	rline	□Re-Ro	ute	□Ac	cess Road		□Other:			
Physical Attribute	S										
Stream Classification: (check one)	Epher	meral	⊠Interm	ittent	□Pe	rennial					
Waterbody Type:					-						
	River ⊠	Stream	□ Ditch		anal	□ Other:	:				
ОНѠМ	OHWM Inc								_		
Width: <u>3.0</u> ft.	(check all that	арріу)		Clear lir on bank	ne	Shelvin	g	☐Wrested vegetation	⊵	Scouring	g □Water staining
Height:		nt, matted, o	r missing	□Wrack li	ne	⊠Litter ar	nd	⊠Abrupt plan		□Soil ch	naracteristic change
<u>0.75_</u> ft. N/A□	vege	tation				debris		community ch	nange		
Width of Waterbody - 1				e of Slope	Width	of Waterb	ody - W	ater Edge to		of Water	:
Bank to Top of Bank:	to	Foe of Slope):		Water	Edge:			(Approx.)	
<u>4.0</u> ft.		<u>_1.0_</u> ft.			N/A⊠		<u>_</u> ft.		N/A⊠		ft.
Sinuosity:	Wa	ter velocity:			Bank h	eight			Bank	slope	
(check one)		prox.)				Right:				Right:	:
		-	fps			Left:	<u>3.5_</u> ft.			Left	<u>90</u> degrees
⊠Meanderi	ng N/A	$\land \boxtimes$					<u>3.5_</u> ft.			Len	<u>90</u> degrees
Qualitative Attribu	ites										
Water Appearance: (check one)	[☑] No water	□Clear	□Turbid		neen 1 surface	⊡Sui scu		□Algal mats	□Othe	r:	
Substrate:	Bedrock	Boulder	⊠ Cobble	Grave	el 🛛	Sand D	⊠ Silt/ o	lay 🗆 Organic		Other:	
(check all that apply) % of Substrate: 1	0 %	%	35 %	25 %	1	5 %	15 %	%%%			
_				<u></u> /0		<u>o</u> ,/o	<u> </u>		,		
Width of Riparian Zone		ative Layers Il that apply)		⊠ Trees	:	Σ	⊠ Sapliı	ngs/Shrubs:	\boxtimes	Herbs	
<u>ft</u> .		BH of Domi	nants:	<u>11.0</u> in			<u>0.75</u> i	•	_	in.	
N/A⊠ Dominant Bank Vegeta	(approx.))									
Black locust, red oa	. ,	, multiflora	rose, N	lorrow's ł	noneys	suckle, a	utumn	olive, poiso	n ivy,	jewelwe	ed, deertongue
Aquatic Habitats (ex: s	ubmerged or em	erged aquatic	vegetation,	overhanging	banks/ro	ots, leaf pac	ks, large	submerged wood	d, riffles,	deep pools	3):
none											
Aquatic Organisms Ob	served (list):										
none											
T&E Species Observed	d (list):										
none											
Disturbances (ex: livest	ock access, man	ure in waterbo	dy, waste d	lischarge pipe	es):						
Livestock access											
Tributary is: (check one)	Natu	ral	□ Artifi	cial, man-m	ade	🗆 Manipi	ulated				
Stream Quality ^a : (check one)	□ High		⊠ Mode	erate		□ Low					

Waterbody ID: SUPA004

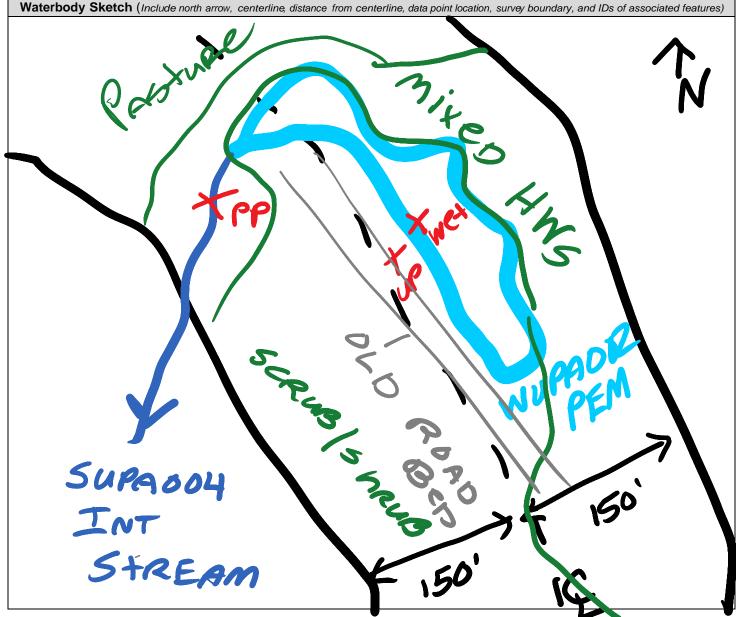
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Unnamed Tributary to Brushy Fork, downstream continues out of corridor, origin as outflow of WUPA002; borderline call as to whether feature is ephemeral or intermittent.





Waterbody SUPA004 facing north upstream



Waterbody SUPA004 facing south downstream



Waterbody SUPA004 facing west across

Survey Descriptio	n				<u> </u>			
Project Name:		Waterbody Nar				aterbody ID:		Date:
Southeast Reliabilit	у	Unnamed Tr	ibutary to E	Brushy Fork	S	UPA003		6/24/2014
State:	County/Parish:		Company		Crew I	Member Initials:	Photos	:
West Virginia	Upshur		Natural Re	esource Group	GB, L	.E	3	
Tract Number(s):			Nearest Mile	epost:		Associated Wet	land ID(s)	
03-034			23.35			Fringe wetlan	ld	
Survey Type: (check one)	⊠Centerline	e □Re-F	Route	□Access Road		□Other:		
Physical Attribute	S							
Stream Classification: (check one)	Ephemera	al ⊠Inter	mittent	Perennial				
Waterbody Type: (check one)	River ⊠ Str	ream 🗆 Dito	ch □Ca	anal 🗌 Other	:			
OHWM Width: <u>2.0</u> ft.	OHWM Indica (check all that appl		□ Clear lin on bank	e 🗆 Shelvin	g	⊠Wrested vegetation	⊠Scourir	ng ⊡Water staining
Height: <u>0.5_</u> ft. N/A □	□Bent, r vegetatio	natted, or missin	g	ne 🗆 Litter ar debris	nd	⊠Abrupt plant community char		characteristic change
Width of Waterbody - 1 Bank to Top of Bank:		of Waterbody - [·] of Slope:	Toe of Slope	Width of Waterbo Water Edge:	ody - W	Ater Edge to Do (A)	epth of Wate	er:
<u>6.0</u> ft.	-	<u>1.0</u> ft.		<u>1</u> N/A□	<u>1.5_</u> ft.	N	/A□	<u>0.33</u> ft.
Sinuosity: (check one) ⊠Straight □Meanderin	(Approx.)	velocity: <u>0.5</u> fps		Left:	<u>3.5_</u> ft. <u>3.0_</u> ft.		ank slope Righ Le	40 degrees
Qualitative Attribu	ites			<u> </u>				
Water Appearance: (check one)	[]] No water ⊠0	Clear □Turb		een ⊡Su surface scu		□Algal □ mats	Other:	
Substrate: [(check all that apply) % of Substrate:	Bedrock DBc	oulder □ Cobb % _%	le □ Grave _%	el ⊠ Sand <u>20</u> %	⊠ Silt/ c <u>80</u> %	clay □ Organic %	□ Other: %	
Width of Riparian Zone <u>ft</u> . N/A⊠	(check all that Avg. DBH (approx.)		□ Trees: in.	□ Saplir in.	ngs/Shr	ubs: 🛛 H	erbs in.	
Dominant Bank Vegeta soft rush, orchardgr		at sedge, blac	kberry, tim	othy grass, rec	d clove	er		
Aquatic Habitats (ex: se none	ubmerged or emerge	d aquatic vegetation	n, overhanging	banks/roots, leaf pac	ks, large	submerged wood, ri	iffles, deep poo	ols):
Aquatic Organisms Ob	served (list):							
none								
T&E Species Observed	l (list):							
Disturbances (ex: liveste	ock access manure i	in waterbody waste	e discharge nine	<i>be)</i> .				
Appears to have be								
Tributary is: (check one)	□ Natural	□ Art	ificial, man-m	ade 🛛 Manip	ulated			
Stream Quality ^a : (check one)	\Box High	⊠ Mc	oderate	□ Low				

Waterbody ID: SUPA003

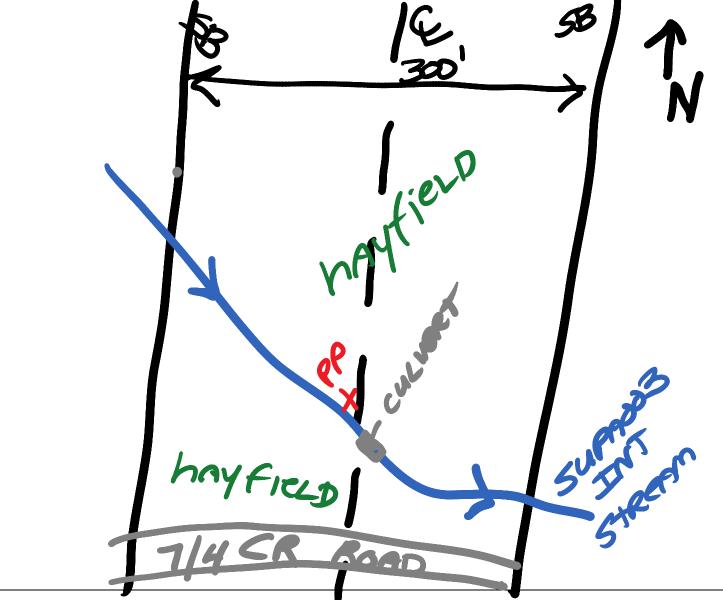
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Unnamed Tributary to Brushy Fork, continues out of corridor in both directions





Waterbody SUPA003 facing north upstream



Waterbody SUPA003 facing south downstream



Waterbody SUPA003 facing west across

Survey Descriptio	n	-			<u> </u>			
Project Name:		Waterbody Na				Vaterbody ID:		Date:
Southeast Reliabilit	у	Unnamed Tr	ibutary to E	Brushy Fork	S	SUPA005		6/24/2014
State:	County/Parish:		Company		Crew	Member Initials:	Pho	otos:
West Virginia	Upshur		Natural Re	esource Group	GB, l	LE	3	
Tract Number(s):	1		Nearest Mile	epost:	I	Associated We	tland ID(s)
03-034			23.4			WUPA003		
Survey Type: (check one)	⊠Centerline	e □Re-F	Route	□Access Road		□Other:		
Physical Attribute	S							
Stream Classification: (check one)	□ Ephemera	al ⊠Inter	rmittent	□Perennial				
Waterbody Type: (check one)	∃River ⊠ Sti	ream 🗆 Dito	ch 🗆 C	anal 🛛 Other	:			
OHWM Width: <u>2.0</u> ft.	OHWM Indica (check all that appl		□ Clear lir on bank	ne 🗆 Shelvin	g	⊠Wrested vegetation	⊠Sco	ouring □Water staining
Height: <u>1.0_</u> ft. N/A □	□Bent, r vegetatio	matted, or missin on	ig	ine □Litter ar debris	nd	Abrupt plant community cha		Soil characteristic change
Width of Waterbody - 1 Bank to Top of Bank:		of Waterbody - ` of Slope:	Toe of Slope	Width of Waterb Water Edge:	ody - W	Vater Edge to	Depth of V Approx.)	Nater:
<u>3.0</u> ft.	-	<u>1.5</u> ft.		<u>2</u> N/A□	<u>2.0_</u> ft.		I/A□	<u>0.75</u> ft.
Sinuosity: (check one) ⊠Straight □Meanderii	(Approx.)	velocity: 	5	Left:	<u>2.5_</u> ft 2.5_ft.		3ank slop F	De Right: <u>40</u> degrees Left: <u>35</u> degrees
Qualitative Attribu	ites							
Water Appearance: (check one)	[]] No water ⊠0	Clear □Turb		neen □Su n surface scu		□Algal □ mats	Other:	
Substrate: [(check all that apply) % of Substrate:	Bedrock 🗆 Bo	oulder	ole □ Grav %%		⊠ Silt/ o _ <u>80</u> %	clay □ Organic %	□ Othe _%	
Width of Riparian Zone <u>ft</u> . N/A⊠ Dominant Bank Vegeta	(check all that Avg. DBH (approx.)		□ Trees in.		-	rubs: 🛛 H	lerbs in.	
soft rush, orchardgi		at sedge, blac	ckberry, tim	othy grass, rec	d clove	ər		
Aquatic Habitats (ex: se none	ubmerged or emerge	d aquatic vegetatio	n, overhanging	banks/roots, leaf pac	ks, large	e submerged wood,	riffles, dee	p pools):
Aquatic Organisms Ob	served (list):							
none								
T&E Species Observed	l (list):							
none								
Disturbances (ex: livest	ock access, manure	in waterbody, waste	e discharge pip	es):				
Appears to have be	en channelize	d; livestock a	ccess					
Tributary is: (check one)	Natural	□ Ar	tificial, man-m	nade 🛛 🖾 Manip	ulated			
Stream Quality ^a : (check one)	\Box High	⊠ Mo	oderate	□ Low				

Waterbody ID: SUPA005

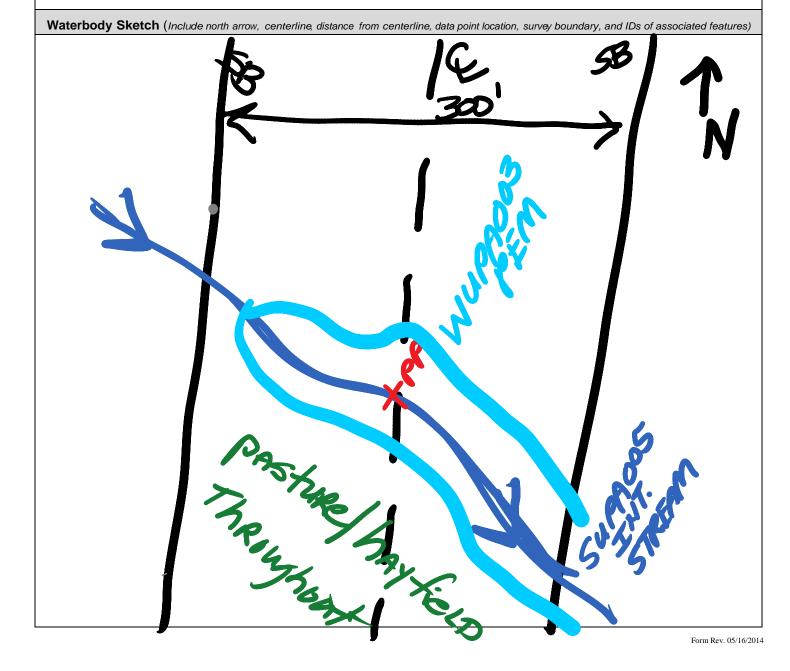
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Unnamed Tributary to Brushy Fork, continues out of corridor in both directions; flows through WUPA003





Waterbody SUPA005 facing northwest upstream



Waterbody SUPA005 facing southeast downstream



Waterbody SUPA005 facing northeast across

Survey Description	n								
Project Name:		Waterbody N				Vaterbody ID:			Date:
Southeast Reliabilit	•		ributary to E	Brushy Fork	S	SUPB001			6/24/2014
State:	County/Parish:	:	Company:			Member Initials	:	Photos:	
West Virginia	Upshur		Natural Re	esource Group	TP			3	
Tract Number(s):	I		Nearest Mile	epost:		Associated W	etland	ID(s):	
03-047			24.05			WUPB001e	9		
Survey Type: (check one)	⊠Centerl	ine □Re	-Route	□ Access Road		□Other:			
Physical Attribute	s								
Stream Classification: (check one)	Ephemo	eral 🛛 Inte	ermittent	□Perennial					
Waterbody Type: (check one)	River ⊠ S	Stream 🗆 Di	tch 🗆 C	anal 🗌 Other:					
OHWM Width: _ <u>1_</u> ft.	OHWM Indi (check all that a		□ Clear lin on bank	ne ⊠Shelvin	g	□Wrested vegetation		Scouring	g ⊟Water staining
Height: ft. N/A□	□Bent vegeta	t, matted, or miss ation	ing □Wrack li	ine □Litter ar debris	nd	□Abrupt plan community ch		□Soil cł	naracteristic change
Width of Waterbody - T Bank to Top of Bank:		h of Waterbody be of Slope:	- Toe of Slope	Width of Waterbo Water Edge:	ody - W		Depth (Approx.)	of Water	:
<u>1.25_</u> ft.		<u>0.75</u> ft.		(N/A□	<u>).75_</u> ft		N/A□	-	_0.4_ft.
Sinuosity: (check one) □Straight ⊠Meanderin	(Appro	1_fp	5	Left:	<u>1.5</u> ft. <u>1.5</u> ft.		Bank	slope Right Left	90 degrees
Qualitative Attribu					<u>1.5_</u> n.	·			
Water Appearance:									
(check one)	No water	⊠Clear □Tu		neen ⊡Sui nisurface scu		□Algal mats	□Othe	r:	
Substrate: (check all that apply) % of Substrate:	Bedrock □ _%	Boulder	oble □ Grav _%		⊠ Silt/ o <u>100 </u> %	clay □ Organic %		Other:	
Width of Riparian Zone	Check all t	ive Layers:	□ Trees		7 Sanli	ngo/Shruho:		Herbs	
<u>ft</u> . N/A⊠		BH of Dominants		. 2	<u>2</u> in.	ngs/Shrubs:		in.	
Dominant Bank Vegeta	tion (list):								
Carex sp., scripts, J	luncus sp., m	naple, orchard	grass, fescu	ie					
Aquatic Habitats (ex: su none, stream is cha								deep pools	3):
					u na				
Aquatic Organisms Ob									
T&E Species Observed	(list):								
none	(<i>nst)</i> .								
Disturbances (ex: livesto									
Located in pasture,	possibly for	grazing. Slight	tly incised, c	one long run					
Tributary is: (check one)	⊠ Natura	A 🗆 I	rtificial, man-m	nade 🗆 Manipi	ulated				
Stream Quality ^a : (check one)	\Box High	× N	loderate	□ Low					

Waterbody ID: SUPB001

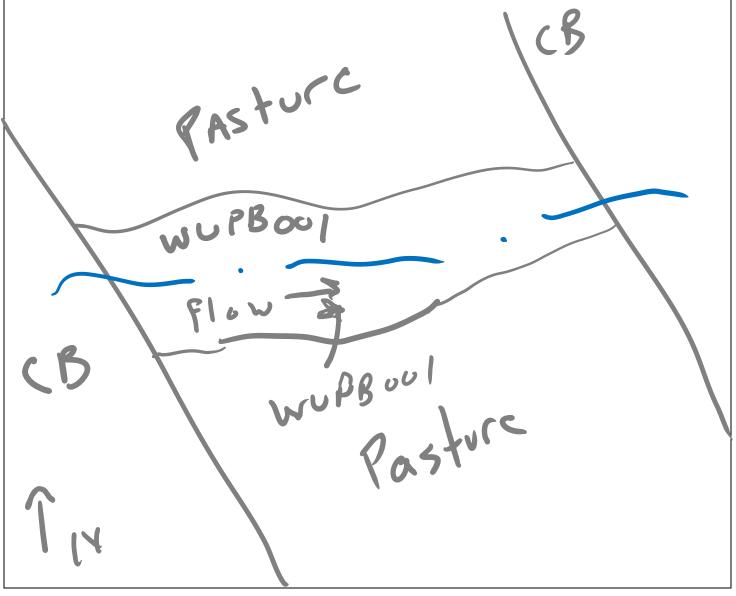
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Intermittent stream associated with wetland WSUB001e, located in hay field.





Waterbody SUPB001 facing west upstream



Waterbody SUPB001 facing east downstream



Waterbody SUPB001 facing south across



Waterbody SUPB001 facing west upstream



Waterbody SUPB001 facing east downstream



Waterbody SUPB001 facing north across

Survey Descript	ion							
Project Name:		Waterbody Na				/aterbody ID:		Date:
Southeast Reliabi	ility	Brushy Forl	K		S	UPB102		8/6/2014
State:	County:		Company:		Crew M	Member Initials:	Photos:	
West Virginia	Upshur		NRG		TP, S	БК	01-03	
Tract Number(s):			Nearest Mile	epost:		Associated Wetland	ID(s):	
03-047			24.0			WUPB102		
Survey Type: (check one)	□Center	line □Re	-Route	⊠Access Road		□Other:		
Physical Attribut	tes							
Stream Classification (check one)		orol Minte	mittont					
, ,			ermittent	Perennial				
Waterbody Type: (check one)	□River	Stream 🗌 Di	tch 🗆 C	anal 🗌 Other:	:			
OHWM Width:	OHWM Indi		⊠ Clear lir	ne ⊠Shelvin	a	□Wrested	Scouring	g ⊡Water
<u>3.0</u> ft.	(on bank		9	vegetation		staining
Height: 0.75 ft.		it, matted, or missi	ng DWrack li		nd	□Abrupt plant	□Soil c	haracteristic change
<u>−0.75</u> n.	vegeta	ation		debris		community change		
Width of Waterbody Bank to Top of Bank		th of Waterbody - oe of Slope:	• Toe of Slope	Width of Waterbo Water Edge:	ody - W	Ater Edge to Depth	of Wate	r:
		-		Ū				0.25 ft.
_ <u>4.0_</u> ft.		<u>1.0</u> ft.		N/A□	<u>1.0_</u> ft.	N/A□		<u>0.25_</u> ft.
Sinuosity:		er velocity:		Bank height		Bank	slope	
(check one)	t (Appr	ox.)		Right:			Right	
C C		<u>1.0</u> fp)S	Left:	<u>5_</u> ft.		Left	<u>75</u> degrees
	ering N/A				<u>5</u> ft.		_	<u>75</u> degrees
Qualitative Attrik	outes							
Water Appearance: (check one)	\Box No water	⊠Clear ⊡Tu	bid ⊓Sh	neen ⊡Sui	face	□Algal □Othe	er.	
				i surface scu		mats		
Substrate:	□ Bedrock □	Boulder 🗆 Cot	ble 🗆 Grav	el 🗆 Sand 🛛	⊠ Silt/ c	clay 🗆 Organic 🛛	Other:	
(check all that apply)5 % of Substrate:	%	%%	%	%	<u>100_</u> %	%	%	
Width of Riparian Zo	ne: Vegetat	tive Layers:						
		that apply)	□ Trees	: 🛛 🛛	∃ Saplir	ngs/Shrubs:	⊠ Herbs	
<u>5.0 ft</u> - N/A□	Avg. DE (approx.)	BH of Dominants	in.	-	<u>2</u> in.			
Dominant Bank Vege								
Stream is located	in a hay field.	Tag alder, imp	atiens, dee	r tongue, and fe	escue	are rooted along	stream	bank.
Aquatic Habitats (ex:	submerged or emer	rged aquatic vegetati	on, overhanging	banks/roots, leaf pac	ks, large	submerged wood, riffles	, deep pool	s):
A few roots along	bank and veg	etation along b	oank. Strear	n has been stra	aighter	ned and ditched for	or agricu	ulture.
Aquatic Organisms	Observed (list):							
none								
T&E Species Observ	ved (list):							
none								
Disturbances (ex: live	estock access, manu	re in waterbody, was	te discharge pipe	es):				
Stream has been	straightened a	and ditched for	agriculture	(hay field)				
Tributary is: (check one)	Natura	al 🗆 A	rtificial, man-m	nade 🛛 🖾 Manipi	ulated			
Stream Quality ^a : (check one)	□ High		loderate	⊠ Low				

Waterbody ID: SUPB102

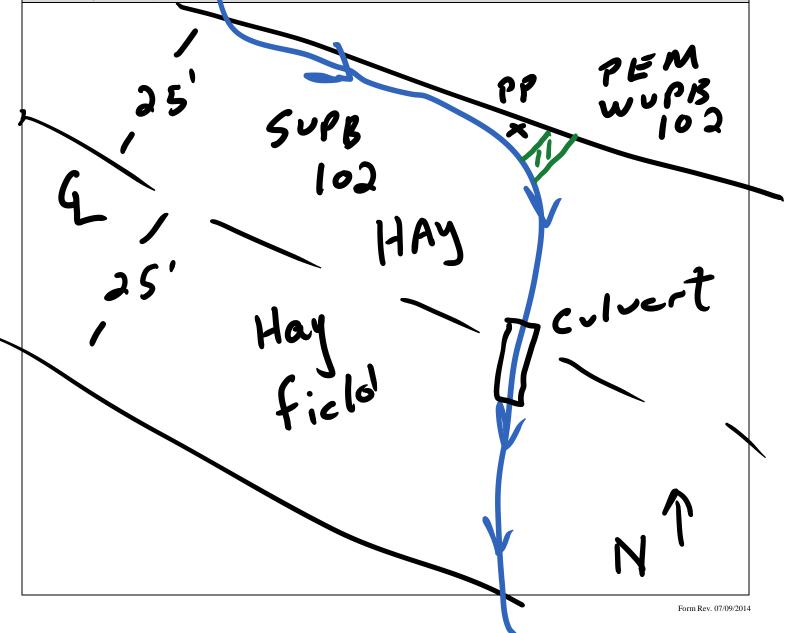
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

As stated above, little aquatic habitat remains due to the stream being straightened/ditched for agriculture.





Waterbody SUPB102 facing northwest upstream



Waterbody SUPB102 facing southeast downstream



Waterbody SUPB102 facing southwest across

Survey Description	n	I							_
Project Name:		Waterbody Nan				Vaterbody ID:			Date:
Southeast Reliabilit	у	Unnamed Tri	butary to E	Brushy Fork	S	UPB003			6/24/2014
State:	County/Parish:		Company:		Crew I	Member Initials	:	Photos:	
West Virginia	Upshur		Natural Re	esource Group	TP			3	
Tract Number(s):			Nearest Mile	epost:		Associated W	etland	ID(s):	
03-048			24.4			none			
Survey Type: (check one)	⊠Centerline	e □Re-R	oute	□ Access Road		□Other:			
Physical Attribute	S								
Stream Classification: (check one)	Ephemera	al 🛛 Interr	nittent	Perennial					
Waterbody Type: (check one)]River □ Str	eam 🛛 Ditcl	h 🗆 Ca	anal 🗌 Other:	:				
OHWM Width: 2.0 ft.	OHWM Indica (check all that appl		Clear lin on bank	ne ⊠Shelvin	g	□Wrested vegetation	×	Scouring	g ⊟Water staining
Height: 	□Bent, r vegetatio	matted, or missing n	g	ne □Litter ar debris	nd	□Abrupt plan community ch		□Soil cl	naracteristic change
Width of Waterbody - T	op of Width	of Waterbody - T	oe of Slope	Width of Waterbo	ody - W	ater Edge to	Depth	of Water	:
Bank to Top of Bank:		of Slope:	•	Water Edge:	-		(Approx.))	
<u>4</u> ft.	-	<u>1.5_</u> ft.			<u>1.0_</u> ft.		N/A□	-	<u>0.25_</u> ft.
Sinuosity:		velocity:		Bank height			Bank s	slope	
(check one)	(Approx.)			Right:	40 H			Right	
		<u>_0.5</u> fps		Left:	<u>4.0</u> ft.			Left	
	ng N/A□				<u>4.0</u> ft.				<u>90</u> degrees
Qualitative Attribu	tes								
Water Appearance: (check one)	No water ⊠0	Clear □Turbi		leen ⊡Sui surface sci		□Algal [mats	□Othe	r:	
	Bedrock 🗆 Bo	oulder 🗆 Cobbl	e 🗆 Grave	el 🗆 Sand 🛛	⊠ Silt/ c	clay 🗆 Organic		Other:	
(check all that apply) % of Substrate:	%	_%	%	_%% _	<u>100 </u> %	%		%	
Width of Riparian Zone									
ft.	(check all that Avg. DBH	apply) of Dominants:	Trees:	: [ngs/Shrubs:	\boxtimes	Herbs	
N/A⊠	(approx.)	0.20	in.		in.			in.	
Dominant Bank Vegeta Fescue	ition (list):								
Aquatic Habitats (ex: su	ubmerged or emerge	d aquatic vegetation	, overhanging	banks/roots, leaf pac	ks, large	e submerged wood	, riffles,	deep pool	s):
none, stream is cha			,		, 0	J.			
Aquatic Organisms Ob	served (list):								
none									
T&E Species Observed	l (list):								
none									
Disturbances (ex: livesto	ock access, manure i	n waterbody, waste	discharge pipe	es):					
Ditch with flowing w	ater, drains inf	o SUSB002							
Tributary is: (check one)	Natural	⊠ Arti	ficial, man-m	ade 🗆 Manipi	ulated				
Stream Quality ^a : (check one)	High	□ Mo	derate	⊠ Low					

Waterbody ID: SUPB003

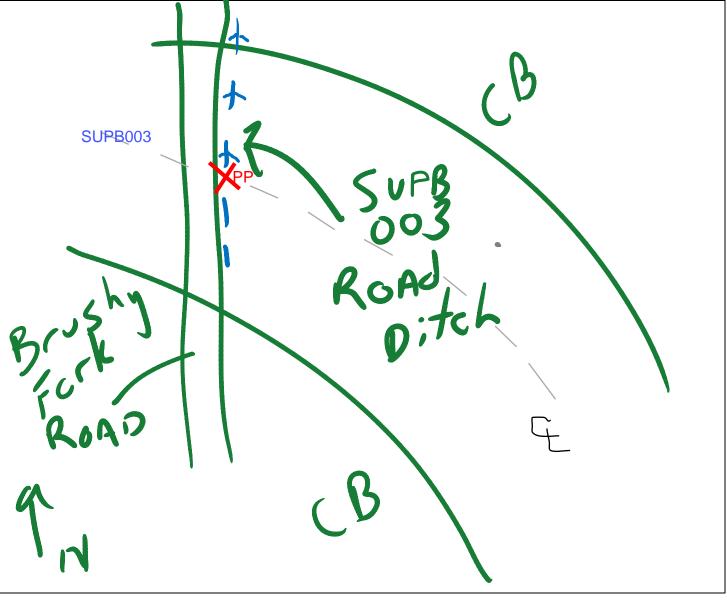
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Roadside ditch





Waterbody SUPB003 facing southwest upstream



Waterbody SUPB003 facing northeast downstream



Waterbody SUPB003 facing northwest across

Survey Description	n							-
Project Name:		Waterbody	Name:			Vaterbody ID:		Date:
Southeast Reliabili	•	Brushy Fo	rk			SUPB002		6/24/2014
State:	County/Parish:		Company:		Crew	Member Initials:	Photos:	
West Virginia	Upshur		Natural R	esource Group	ΤP		3	
Tract Number(s):	1		Nearest Mil	epost:	1	Associated We	tland ID(s):	
03-048, 03-050			24.4			none		
Survey Type: (check one)	⊠Centerli	ine 🗆 R	e-Route	□Access Road		□Other:		
Physical Attribute	s							
Stream Classification: (check one)	Epheme	eral □Ir	ntermittent	⊠Perennial				
Waterbody Type: (check one)	□River ⊠ S	Stream 🗆 I	Ditch 🗆 C	anal 🛛 Other:	:			
OHWM Width: 3.0 ft.	OHWM Indie (check all that ap		□ Clear li on bank	ne ⊠Shelvin	g	□Wrested vegetation	⊠Scourin	g ⊟Water staining
Height: ft. N/A□	□ Bent vegeta	, ,	sing □Wrack I	ine □Litter ar debris	nd	□Abrupt plant community cha		characteristic change
Width of Waterbody -	Top of Widt	h of Waterbody	/ - Toe of Slope	Width of Waterbo	odv - V	Vater Edge to D	epth of Wate	r:
Bank to Top of Bank:		e of Slope:	,	Water Edge:		(*	Approx.)	
<u>_10</u> ft.		<u>_2.0</u> ft.		<u>.</u> N/A□	<u>2.0_</u> ft.		I/A□	<u>_0.5_</u> ft.
Sinuosity:	Wate	er velocity:		Bank height		B	ank slope	
(check one)	(Appro	эх.)		Right:			Righ	
		_ <u>1_</u> f	ps	Left:	<u>8_</u> ft.		Lef	80 degrees
□Meanderi	ing N/A	ב		2011	<u>8_</u> ft.		20.	<u>80</u> degrees
Qualitative Attribu	utes							
Water Appearance: (check one)	□No water	⊠Clear □T		neen ⊡Sui n surface scu		□Algal □ mats	Other:	
Substrate:	Bedrock	Boulder 🗆 Co	obble 🗆 Grav	rel 🛛 Sand 🛛	⊠ Silt/	clay 🗆 Organic	□ Other:	
(check all that apply) % of Substrate:	%	%	_% _	_% <u>50 %</u> <u></u>	<u>50 </u> %	%	%	
Width of Riparian Zon		ive Layers:						
<u>ft</u> .	(check all t Avg. DB (approx.)	hat apply) H of Dominant	□ Trees : s: in.	S: D	⊠ Sapli _ <u>1</u> in	ings/Shrubs:	□ Herbs ir	1.
N/A⊠ Dominant Bank Veget								
Silky dogwood, orc		scue, red clo	ver					
Aquatic Habitats (ex: s	submerged or emerged	ged aquatic vegeta	ation, overhanging	banks/roots, leaf pac	ks, large	e submerged wood,	riffles, deep poo	ls):
none, stream is cha	annelized and	I flows the m	iddle of a hag	y field / pasture	; ther	e are a few do	gwood tree	s hanging over
Aquatic Organisms Of	oserved (list):							
none								
T&E Species Observe	d (list):							
none								
Disturbances (ex: livest	tock access, manur	e in waterbody, w	aste discharge pip	es):				
Located in pasture,	, possibly for g	grazing; deel	oly incised, d	itched, and stra	aighte	ned		
Tributary is: (check one)	Natura	I 🗆	Artificial, man-n	nade 🗌 Manipi	ulated			
Stream Quality ^a : (check one)	🗆 High	\boxtimes	Moderate	□ Low	_			

Waterbody ID: SUPB002

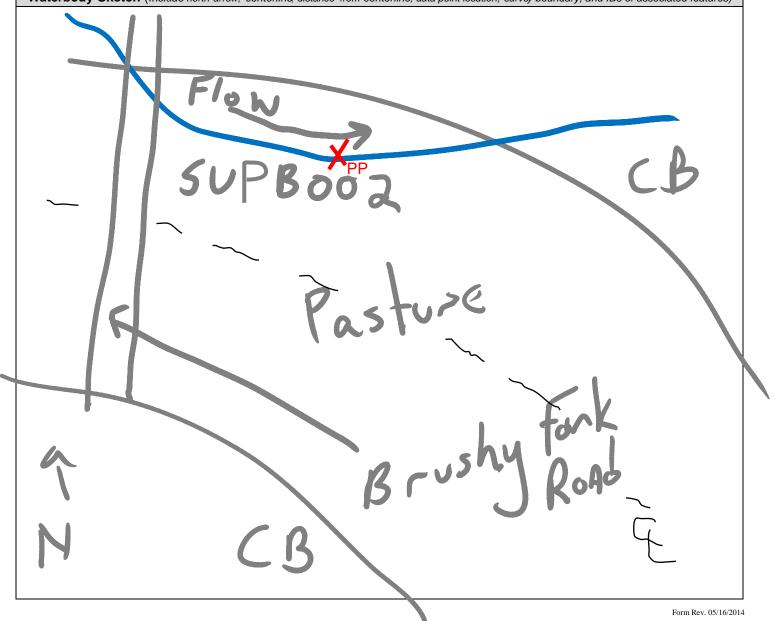
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Stream is culverted under road





Waterbody SUPB002 facing west upstream



Waterbody SUPB002 facing east downstream



Waterbody SUPB002 facing north across

Survey Descriptio	n								
Project Name:		Waterbody Na				/aterbody ID:		Date:	
Atlantic Coast Pipe	line	UNT to Brus	hy ⊢ork		s	UPC102		4/15/2016	
State:	County:		Company:		Crew M	Member Initials	: Phot	tos:	
West Virginia	Upshur		NRG		CR, A	AS	3		
Tract Number(s):			Nearest Mile	epost:		Associated W	etland ID(s	s):	
Contractor Yard #1						None			
Survey Type: (check one)		e □Re-	Route	□Access Road		⊠Other: Con	tractor Ya	ard	
Physical Attribute	s								
Stream Classification: (check one)	Ephemera	al ⊠Inte	rmittent	Perennial					
, ,	Ephemen								
Waterbody Type: (check one)	□River ⊠ Str	ream 🗆 Dit	ch 🗆 Ca	anal 🛛 Other	:				
онwм	OHWM Indica (check all that appl								
Width: _ <u>3_</u> ft.	(check all that appl	y)	☑ Clear lir on bank	ne ⊡Shelvin	g	□Wrested vegetation	□Sco	ouring ⊡Water staining	
Height:	⊠Bent, r	matted, or missir	ng ⊡Wrack li		nd	□Abrupt plan		Soil characteristic change	
ft. N/A□	vegetatio	on		debris		community ch	lange		
Width of Waterbody - ⁻ Bank to Top of Bank:			Toe of Slope	Width of Waterb	ody - W	ater Edge to	Depth of W (Approx.)	Vater:	
•	to Toe	of Slope:		Water Edge:			(Approx.)		
<u>_10_</u> ft.	-	<u>1</u> ft.		N/A□	<u>2</u> ft.		N/A□	<u>0.3</u> ft.	
Sinuosity:	Water	velocity:		Bank height			Bank slope	e	
(check one)	(Approx.))		Right:	~ ~		R	Right:	
		<u>1</u> fps		Left:	<u>3</u> ft.			_ <u>70</u> degrees Left:	
Meanderi	ng N/A□				<u>3_</u> ft.			_70_degrees	
Qualitative Attribu	utes								
Water Appearance: (check one)	\Box No water \boxtimes	Clear □Turl			rface um	□Algal [mats	□Other:		
Substrate:	Bedrock Bo	oulder 🗆 Cobl	ole 🗆 Grav	el 🛛 Sand 🛛	⊠ Silt/ c	lay 🗆 Organic	: 🗆 Other		
(check all that apply) % of Substrate:	%	%	%	% 10 %	<u>90_</u> %	%		%	
				<u>10</u> /0	00_/0	/0		_/0	
Width of Riparian Zone	e: Vegetative (check all that	•		х. г	□ Saplir	ngs/Shrubs:	⊠ He	vrbe	
<u>ft</u> .		of Dominants:	- 11663	_in.		_in.		105	
N/A⊠ Dominant Bank Vegeta	(approx.)								
Red fescue, juncus		over, danilior	ı						
Aquatic Habitats (ex: s	ubmerged or emerge	d aquatic vegetatio	on, overhanging	banks/roots, leaf pac	ks, large	submerged wood	, riffles, deep	pools):	
None									
Aquatic Organisms Ob	oserved (list):								
None									
T&E Species Observed	d (list):								
None									
Disturbances (ex: livest	ock access, manure	in waterbody, wast	e discharge pipe	es):					
Cattle access, flow	s under branch	y fork road							
Tributary is: (check one)	□ Natural	□ Ar	tificial, man-m	ade 🛛 Manip	ulated				
Stream Quality ^a : (check one)	🗆 High		oderate	⊠ Low					_

Waterbody ID: SUPC102

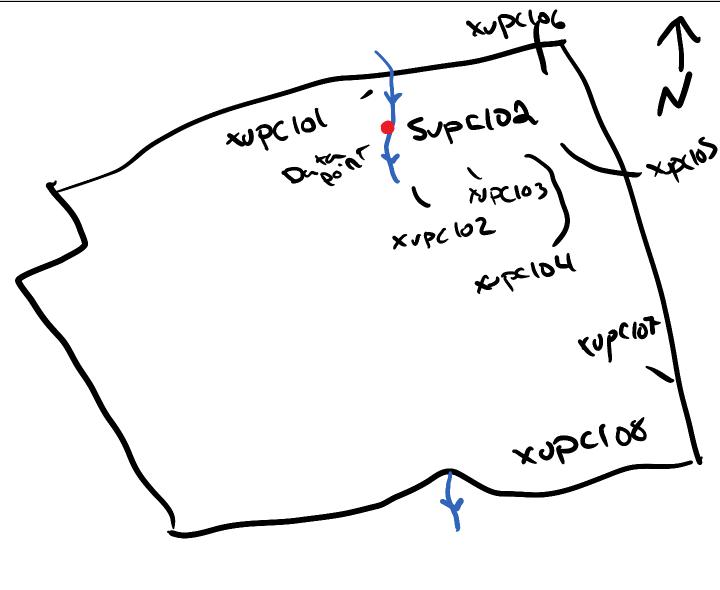
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Stream flows under brushy fork road and through a cattle pasture. Fringe wetland is present around the stream. Stream appears to flow through a pipe under the contractor yard.





Waterbody SUPC102 facing north upstream



Waterbody SUPC102 facing south downstream



Waterbody SUPC102 facing east across

Survey Descriptio	n								
Project Name:		Waterbody Na				aterbody ID:			Date:
Atlantic Coast Pipe	line	Brushy Fork			S	upe012			7/27/2016
State:	County:		Company:		Crew I	Member Initials:	:	Photos:	
West Virginia	Upshur		NRG		CG, A	AS	1-3		
Tract Number(s):			Nearest Mile	epost:		Associated We	etland	ID(s):	
unknown			NA			Wupe006			
Survey Type: (check one)		ne □Re-	Route	□Access Road		⊠Other: pipey	yard		
Physical Attribute	S								
Stream Classification:	_								
(check one)	Epheme	ral 🛛 Inte	rmittent	⊠Perennial					
Waterbody Type: (check one)	∃River ⊠ S	tream 🗆 Dit	ch 🗆 C	anal 🛛 Other	:				
OHWM	OHWM Indic				~			Coouring	n ⊡W(stor
Width: <u>10_ft</u> .	(oncont an unat app	.,	Clear lir on bank	ne ⊡Shelvin	y	□Wrested vegetation		Scouring	g ⊟Water staining
Height:	⊠Bent,	matted, or missir	ng ⊡Wrack li	ne 🗆 Litter ar	nd	□Abrupt plant	t	⊠Soil cl	naracteristic change
ft. N/A□	vegetati	ion		debris		community cha	ange		
Width of Waterbody -			Toe of Slope	Width of Waterb	ody - W			of Water	:
Bank to Top of Bank:	to Toe	e of Slope:		Water Edge:		((Approx.)		
<u>_14_</u> ft.		<u>5</u> ft.			<u>5</u> ft.		N/A□		<u>_1_</u> ft.
Sinuosity:	Water	r velocity:		N/A□ Bank height			Bank s	lope	
(check one)	(Approx			Right:				Right	:
		<u>0.7</u> fp	s	Left:	<u>5</u> ft.			Left	80 degrees
⊠Meanderi	ng N/A□			Lon	<u>5</u> ft.			Lon	. <u>80</u> degrees
Qualitative Attribu	ites					·			
Water Appearance: (check one)	□No water □				4				
]Clear ⊠Turl	or	surface sci	um	mats	Other		
Substrate:	Bedrock 🗆 B	Soulder 🗆 Cobl	ble 🛛 Grav	el 🗆 Sand 🛛	⊠ Silt/ c	clay 🗆 Organic		Other:	
% of Substrate:	%	%	_%	%%	<u>100 </u> %	» <u> </u> %		%	
Width of Riparian Zon	e: Vegetativ	ve Layers:							
-	(check all the		☑ Trees			ngs/Shrubs:	\boxtimes	Herbs	
<u>20 ft</u> - N/A□	avg. DBr (approx.)	H of Dominants:	<u>5</u> in.	-	_ <u>1_</u> in.				
Dominant Bank Vegeta	ation (list):								
Willow, princess tre	e, reed canary	y grass, jewel	weed						
Aquatic Habitats (ex: s	ubmerged or emerge	ed aquatic vegetation	on, overhanging	banks/roots, leaf pac	ks, large	submerged wood,	riffles,	deep pool	s):
Overhanging veg									
Aquatic Organisms Of	oserved (list):								
None but likely pres	sent								
T&E Species Observed	d (list):								
none									
Disturbances (ex: livest	ock access, manure	e in waterbody, wast	e discharge pip	es):					
Bridged, drainage o	discharge pipe	es, adjacent to	pasture						
Tributary is: (check one)	□ Natural	□ Ar	tificial, man-m	ade 🛛 Manip	ulated				
Stream Quality ^a : (check one)	□ High	⊠M	oderate	□ Low					

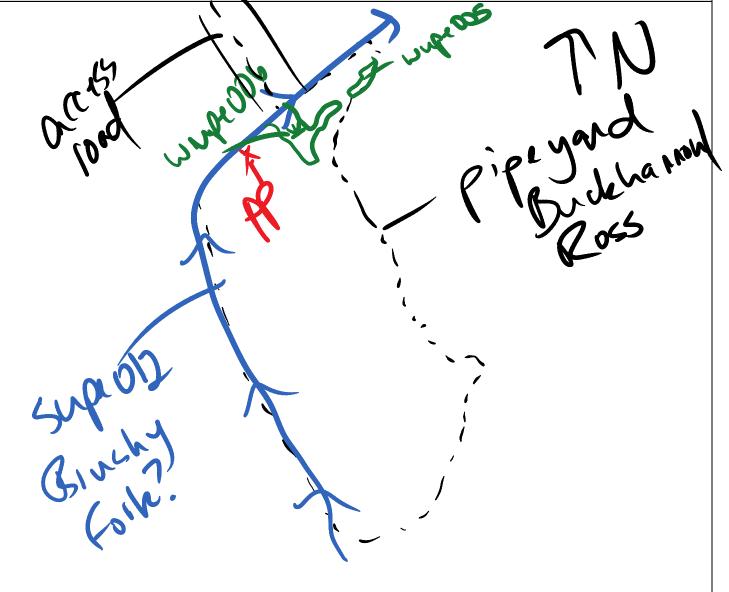
Supe012

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:





Waterbody supe012 facing southwest upstream



Waterbody supe012 facing northeast downstream



Waterbody supe012 facing northwest across

Survey Description	n								_
Project Name:		Waterbody Na				Vaterbody ID:			Date:
Southeast Reliabilit	у	Brushy Fork			S	SUPB004			6/24/2014
State:	County/Parish:		Company:		Crew	Member Initials	:	Photos:	
West Virginia	Upshur		Natural Re	esource Group	ΤP			3	
Tract Number(s):			Nearest Mile	epost:		Associated W	etland	ID(s):	
03-051			24.6			none			
Survey Type: (check one)	⊠Centerlin	ie □Re-I	Route	□ Access Road		□ Other:			
Physical Attribute	s								
Stream Classification: (check one)	Epheme	ral 🛛 Inter	rmittent	⊠Perennial					
Waterbody Type: (check one)]River □ St	tream 🗆 Dite	ch 🛛 C	anal 🛛 Other:	:				
OHWM Width: 15.0 ft.	OHWM Indic (check all that app		□ Clear lir on bank	ne 🗆 Shelving	g	⊠Wrested vegetation	\boxtimes	Scouring	g ⊟Water staining
Height:	⊠Bent, vegetati	matted, or missir on	ng ⊠Wrack li	ne □Litter ar debris	nd	□Abrupt plan community ch		□Soil cl	haracteristic change
N/A□ Width of Waterbody - T	op of Width	of Waterbody -	Toe of Slope	Width of Waterbo	ody - V	Vater Edge to	Depth	of Water	:
Bank to Top of Bank:		e of Slope:		Water Edge:	2		(Approx.)		
ft.		<u>15.0</u> ft.			<u>15.0_</u> fl	t.		-	<u>1.0</u> ft.
Sinuosity:	Water	velocity:		N/A□ Bank height			N/A⊡ Bank s	lone	
(check one)	(Approx			Right:			Dalik S	Right	:
⊠Straight		<u>0.1</u> fps	6		<u>3.0</u> ft			Left	<u>70</u> degrees
□Meanderin	ng N/A□				<u>3.0</u> ft			Len	. <u>70</u> degrees
Qualitative Attribu	tes								
Water Appearance:					_				
(check one)	[]] No water ⊠	lClear □Turb		neen ⊡Sur nisurface scu		□Algal [mats	☐Other		
Substrate:	Bedrock 🗆 B	oulder 🗆 Cobb	ole 🗆 Grav	el 🗆 Sand 🛛	⊠ Silt/ o	clay 🛛 Organic		Other:	
% of Substrate:	%	%	_%	_%% _	<u>100 </u> %	%	_	_%	
Width of Riparian Zone	: Vegetativ	/e Layers:							
-	(check all tha	at apply)	□ Trees	: [∃ Sapli	ngs/Shrubs:		Herbs	
<u>ft</u> ·	Avg. DBH (approx.)	I of Dominants:	in.		in			in	1.
Dominant Bank Vegeta	ation (list):								
Disturbed by clear of	cut								
Aquatic Habitats (ex: su	ubmerged or emerge	ed aquatic vegetatio	n, overhanging	banks/roots, leaf pac	ks, large	e submerged wood	, riffles, o	deep pool	s):
Stream resembles a sedges.		w coastal can	al, rooted a	aquatic vegetati	ion th	roughout , sill	ky dog	gwood,	black willow,
Aquatic Organisms Ob	served (list):								
Frogs									
T&E Species Observed	l (list):								
none									
Disturbances (ex: livesto	ock access, manure	in waterbody, wast	e discharge pip	es):					
Ditch/canal									
Tributary is: (check one)	□ Natural		tificial, man-m	ade 🛛 Manipu	ulated				
Stream Quality ^a : (check one)	🗆 High	⊠ Mo	oderate	□ Low					

Waterbody ID: SUPB004

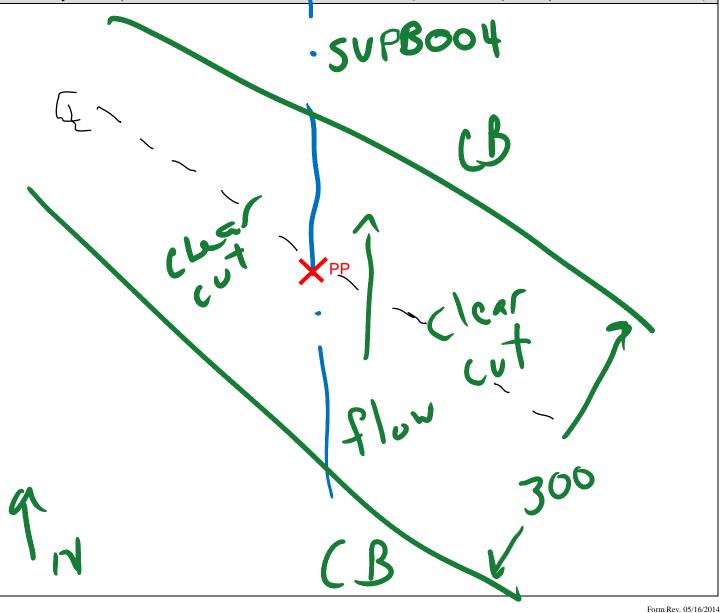
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Channel has been widened and straightened





Waterbody SUPB004 facing south upstream



Waterbody SUPB004 facing north downstream



Waterbody SUPB004 facing east across

Survey Description	n	.						
Project Name:		Waterbody Nar				Vaterbody ID:		Date:
Southeast Reliability	у	Unnamed Tr	ibutary to L	lick Run	S	SUPB005		6/25/2014
State:	County/Parish:	·	Company:			Member Initials:	Pho	otos:
West Virginia	Upshur		Natural Re	esource Group	ΤP		3	
Tract Number(s):			Nearest Mile	epost:	1	Associated We	etland ID(s):
03-068, 03-066			26.95			none		
Survey Type: (check one)	Centerline	e □Re-F	Route	□Access Road		□Other:		
Physical Attribute:	s							
Stream Classification:	_							
(check one)		al ⊠Inter	mittent	Perennial				
Waterbody Type: (check one)	River 🛛 Str	ream 🗆 Dito	h □Ca	anal 🛛 Other	:			
онwм	OHWM Indica							
Width: _ <u>2.0</u> ft.	(check all that appl	<i>y)</i>	Clear lir on bank	ne ⊠Shelvin	g	☐Wrested vegetation	⊠Sc	ouring
Height:	□Bent, r	natted, or missin	g	ne 🗆 Litter ar	nd	□Abrupt plant		Soil characteristic change
ft. N/A□	vegetatio	on		debris		community cha	ange	
Width of Waterbody - T			Toe of Slope	Width of Waterb	ody - W	Vater Edge to	Depth of V	Water:
Bank to Top of Bank:	to Toe	of Slope:		Water Edge:		(Approx.)	
<u>_4.0</u> ft.	_	<u>1.5</u> ft.			<u>1.0_</u> ft.			<u>_0.1_</u> ft.
Sinuosity:	Wator	velocity:		N/A□ Bank height			N/A⊡ Bank slop	
(check one)	(Approx.)			Right:			•	Right:
□Straight		<u>_1_</u> fps			<u>4_</u> ft.			80 degrees
⊠Meanderir	ng N/A□			Left:	<u>3_</u> ft.			Left: 80_degrees
Qualitative Attribu	tes							
Water Appearance:							204	
(check one)	No water ⊠0	Clear □Turb		leen □Sul i surface scu		□Algal □ mats]Other:	
Substrate:	Bedrock 🗆 Bo	oulder 🛛 🖾 Cobb	le 🗆 Grave	el 🗆 Sand 🛛	⊠ Silt/ o	clay 🗆 Organic	🗆 Othe	ər:
% of Substrate:	%	_% _ <u>5</u> _%	%	%	<u>95 </u> %	%	%	6
Width of Riparian Zone	: Vegetative	e Lavers:						
	(check all that		⊠ Trees	: D	🛛 Saplii	ngs/Shrubs:	⊠ He	erbs
<u>ft</u> . N/A⊠	Avg. DBH (approx.)	of Dominants:	<u>8</u> in.		<u>1</u> in.		_	in.
Dominant Bank Vegeta								
Orchardgrass, fescu	ue, red clover,	sugar maple	, black gun	n, black cherry,	, Chris	stmas fern		
Aquatic Habitats (ex: su	ubmerged or emerge	d aquatic vegetation	n, overhanging	banks/roots, leaf pac	ks, large	e submerged wood,	riffles, dee	p pools):
Downstream portion		a pasture, up	stream is v	wooded; very s	inuou	s, debris piles	s, bars, a	and benches
Aquatic Organisms Ob	served (list):							
none								
T&E Species Observed	(list):							
none								
Disturbances (ex: livesto	ock access, manure i	in waterbody, waste	e discharge pipe	es):				
Downstream located	d in pasture, p	ossibly for gra	azing.					
Tributary is: (check one)	[⊠] Natural	□ Art	ificial, man-m	ade 🗌 Manip	ulated			
Stream Quality ^a : (check one)	□ High	⊠ Mc	oderate	□ Low				

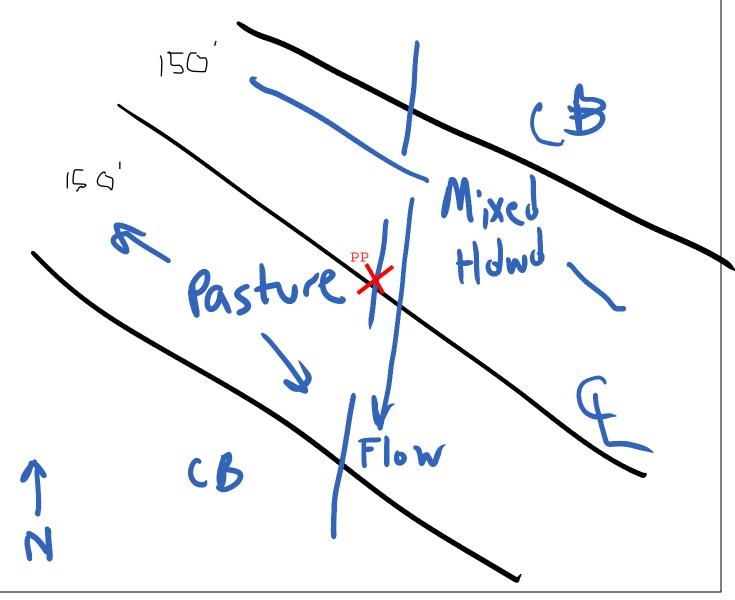
Waterbody ID: SUPB005

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:





Waterbody SUPB005 facing north upstream



Waterbody SUPB005 facing south downstream



Waterbody SUPB005 facing west across

Open Waterbod	ly Data Sheet	<u>:</u>							
Survey Description	on								
Project Name:		Waterbody N	ame:		W	aterbody ID:		Date:	
Southeast Reliabil	ity	Unnamed I	Pond to Lick F	Run	O	UPA001		6/25/201	4
State:	County:		Company:		Crew N	lember Initials:	Photos:		
•	Upshur		Natural Resou	•	GB, L	E	1		
Tract Number(s):			Nearest Milepos	st:	A	ssociated Wetland	d ID(s):		
03-068			26.95		n	one			
Survey Type: (check one)	⊠Centerlir	ne 🗆 R	e-Route	□Access R	oad	□Other:			
Physical Attribut	es								
Waterbody Type: (check one)	k Pond 🗆 Natura	Pond 🗆 La			ment 🗆 (Oxbow 🗆 Other			
Hydrologic Regime:	☑ Permanently	Flooded	Semipermanent	ly Flooded	□ Seaso	nally Flooded	Temporaril	y Flooded	
онwм	OHWM Ind	cator:							
Height:	(check all that a	npply)	⊠ Clear I on bank	ine □SI	helving	☐Wrested vegetation	□Scou	ring	□Water staining
<u>3.0</u> ft.	□Ber	t, matted, or m	issing	ПI	tter and	⊠Abrupt plar	nt ⊡Soil ch	aractoristic	change
	vegeta	· · · · ·	line	debr		community ch		ardotoriotic	onange
Depth of Water:		Bank heigh	nt (average):			Bank slope (ave	rage):		
_ <u>_2.5</u> N/A□	ft.		5.0	_ft.			<u>75</u> degree	S	
Qualitative Attrib	utes								
Water Appearance: (check one)	□No water □	Clear ⊠T	urbid]Surface cum	□Algal □ mats	Other:		
Substrate: (check all that apply)	Bedrock B	oulder 🗆 Co	obble 🛛 Grave	Sand	⊠ Silt/	clay 🗌 Organic	□ Other:		
% of Substrate:	%	%	%	<u>% 20</u> %	<u>80</u> %	%	%		
Width of Riparian Zor			53 -						
ft∙	(check all tha	арру)	⊠ Trees:		🖾 Sapli	ings/Shrubs:	⊠ Herbs		
N/A 🛛	Avg. DBH (approx.)	of Dominants	<u>11.0</u> in.		_ 0.75	in.	in.		
Dominant Bank Vege	tation (list):								
Black cherry, suga	r maple, black	locust, autui	mn olive, mult	iflora rose,	woodne	ttle, deertongue	9		
Aquatic Habitats (ex: s	submerged or emerged a	quatic vegetation, o	verhanging banks/roots	s, leaf packs, large	submerged v	wood, riffles, deep pools,	etc.):		
Pool	0 0		0.0		Ū		,		
Aquatic Organisms O	bserved (list):								
Frogs									
T&E Species Observe	ed (list):								
none									
Disturbances (ex: lives		in waterbody, wa	aste discharge pipe	s):					
Light livestock use	9								
Waterbody is: (check one)	Natural	⊠ Artificia	al, man-made	Manipulat	ed				
Waterbody Quality ^a : (check one)	\Box High	⊠ Moderate	□ Low						

OUPA001

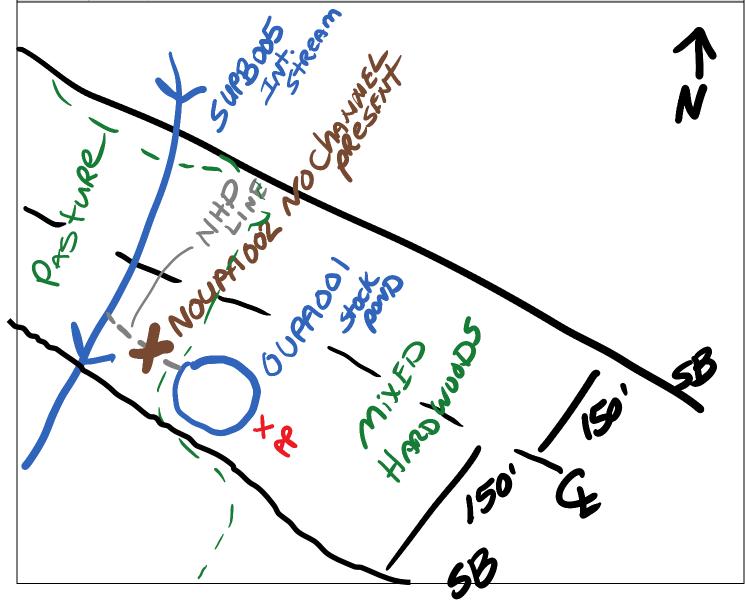
High Quality: Natural, natural bank vegetation around entire waterbody; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or bank vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Inflow is sheet flow from draw, dam across mouth of draw, outflow underground to nearby stream





Waterbody OUPA001 facing northwest

Open Waterbod	ly Da	ta Sheet										
Survey Descripti	on											
Project Name:		V	Vaterbody	Name:			W	Vaterbody ID:		Date:		
Southeast Reliabil	lity	ι	Jnname	d Pond	to Cutright R	un	O	UPB001		6/25/20	14	
State:	Count	y:		Comp	any:		Crew N	Member Initials:	Photos:	•		
ů –	Upsh	ur			ral Resource (Group	TP	' 1				
Tract Number(s):				Neare	st Milepost:		A	ssociated Wetland	ID(s):			
03-076				27.55	5		n	one				
Survey Type: (check one)		Centerline		Re-Rou	te 🗆 A	ccess Roa	d	□Other:				
Physical Attribut	es											
Waterbody Type: (check one)	alı Dava			alia 🗆								
	ck Ponc		Pond 🗆 L	аке 🗆		ipounamer	nt ⊔ (Oxbow 🛛 Other:				
Hydrologic Regime:		ermanently F	looded	🗆 Semir	permanently Floo		Seaso	onally Flooded	Temporari	ly Flooder	4	
онwм							00030		Temporal	ly l looded	J	
		(check all that app			🛛 Clear line	□Shel	ving	□Wrested	□Sco	uring	□Water	
Height: 4 ft.					on bank			vegetation			staining	
<u>4</u> 11.		□Bent, vegetati	matted, or on	missing	□Wrack line	□Litter debris	and	□Abrupt plant community cha		naracterist	ic change	
Depth of Water:			Bank hei	ight (ave	erage):			Bank slope (avera	age):			
_ <u>_3</u>	_ft.				<u>5</u> ft.				40 degree	es		
Qualitative Attrib			1									
Water Appearance:	Juies											
(check one)	□No v	vater □C	lear 🛛	Turbid	□ Sheen on surface	⊡Su scur	urface n	□Algal □C mats	Other:			
Substrate: (check all that apply)	□ Bed	rock 🗆 Bou	ulder 🗆	Cobble	Gravel	Sand	⊠ Silt	/ clay 🛛 Organic	Other:			
% of Substrate:		<u>%</u>	_%	%	%	%	<u>100</u> %	%%	%			
Width of Riparian Zor	ne:	Vegetative I	Layers:									
ft.		(check all that ap	oply)		□ Trees:		⊠ Sapl	lings/Shrubs:	\boxtimes Herbs			
<u> </u>		Avg. DBH o	f Dominan	nts:	in		<u>1</u> in.		in			
N/A⊠		(approx.)			in.	-	<u> </u>		in.			
Dominant Bank Vege	etation	(list):										
Juncus sp., multifl	lora ro	se, cattail,	autumn	olive								
Aquatic Habitats (ex: s	submerge	d or emerged aqu	atic vegetation	, overhangi	ng banks/roots, leaf pa	acks, large sub	merged	wood, riffles, deep pools, et	tc.):			
Some aquatic veg												
Aquatic Organisms C	Observe	ed (list):										
none												
T&E Species Observe	ed (list)											
none	eu (<i>not</i>)	•										
Disturbances (ex: lives	stock ac	cess, manure ir	waterbodv.	waste dis	charge pipes):							
Farm pond in cattl												
Waterbody is: (check one)		□ Natural	⊠ Artifi	cial, mar	n-made 🛛 Ma	anipulated						
Waterbody Quality ^a :												
(check one)		🗆 High	□ Modera	ate 🛛	I Low							

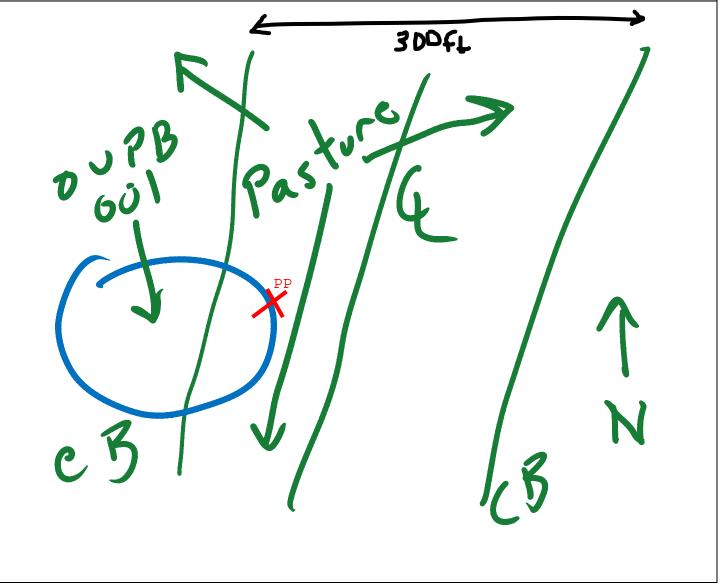
OUPB001

High Quality: Natural, natural bank vegetation around entire waterbody; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or bank vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:





Waterbody OUPB001 facing northwest

Survey Description	n								
Project Name:		Waterbody N	ame:			Vaterbody ID:		Date:	
Southeast Reliability	ý	Cutright Ru	n		S	SUPB006		6/26/2014	
State:	County/Parish:	1	Company:		Crew I	Member Initials	: Pho	otos:	
West Virginia	Upshur		Natural R	esource Group	ΤP		3		
Tract Number(s):			Nearest Mil	epost:		Associated W	etland ID(s):	
03-076			27.65			WUPB006	in floodp	lain, not connected	d
Survey Type: (check one)	⊠Centerline	e □Re	-Route	□Access Road		□Other:			
Physical Attributes	5								
Stream Classification: (check one)	Ephemera	al ⊡Int	ermittent	⊠Perennial					
Waterbody Type:									
	River 🛛 Str	eam 🗆 Di	itch 🗆 C	anal 🛛 🗆 Other					
OHWM Width: 12.0 ft.	OHWM Indica (check all that apply		⊠ Clear li on bank	ne 🛛 Shelvin	g	□Wrested vegetation	□Sc	ouring DWater staining	
Height:		natted, or miss	ing DWrock I	ine 🗆 Litter ar	ad	⊂ □Abrupt plan	+ □	Soil characteristic chan	
<u>2.5</u> ft. N/A□	vegetatio	'n	Ū	debris		community ch			iye
Width of Waterbody - T Bank to Top of Bank:	op of Width	of Waterbody of Slope:	- Toe of Slope	Width of Waterb Water Edge:	ody - W	ater Edge to	Depth of ((Approx.)	Nater:	
							(**********	1 5 4	
<u>16_</u> ft.	-	<u>9</u> ft.		N/A□	<u>10_</u> ft.		N/A□	<u>1.5</u> ft.	
Sinuosity:		velocity:		Bank height			Bank slop)e	
(check one)	(Approx.)			Right:	40 4		I	Right:	
		<u>1.0</u> fp	S	Left:	<u>10_</u> ft.			<u>85</u> degrees Left:	
Meanderir	ng N/A□			-	<u>10_</u> ft.			<u>85</u> degrees	
Qualitative Attribu	tes								
Water Appearance: (check one)	No water	Clear ⊠Tu		heen □Su n surface sci	rface um	□Algal I mats	□Other:		
Substrate:	Bedrock 🗆 Bo	oulder 🗆 Col	oble 🛛 Grav	rel 🗆 Sand 🛛	Silt/ o	clay 🗆 Organic	Othe	er:	
(check all that apply) % of Substrate:	%	_%	_%	_%%	<u>100</u> %	%	%	6	
Width of Riparian Zone	: Vegetative	e Layers:							
ft.	(check all that		🗆 Tree			ngs/Shrubs:	🗆 He	rbs	
N/A⊠	(approx.)	of Dominants		_in	<u>1.5</u> in).	_	_in.	
Dominant Bank Vegeta									
Silky dogwood, elde	•	•							
Aquatic Habitats (ex: su					ks, large	e submerged wood	, riffles, dee	p pools):	
Overhanging trees,	roots, debris p	oiles, bars ar	nd benches						
Aquatic Organisms Ob	served (list):								
none									
T&E Species Observed	(list):								
none									
Disturbances (ex: livesto	ock access, manure i	n waterbody, was	ste discharge pip	es):					
Pasture on both sid	es, stream app	ears to have	e been strai	ghtened , chan	nelize	d as a result	og agric	ulture	
Tributary is: (check one)	Natural		vrtificial, man-m	nade 🗆 Manip	ulated				
Stream Quality ^a :	— .		As days (
(check one)	🗆 High	⊠ N	/loderate	🗆 Low					

Waterbody ID: SUPB006

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

c \$		PP PP
	Pastur	flow . supposed .
N N	G	CB are
		Form Rev. 05/16/2014



Waterbody SUPB006 facing west upstream



Waterbody SUPB006 facing east downstream



Waterbody SUPB006 facing south across

Survey Descriptio	n										
Project Name:		Waterbo	•					aterbody ID:			Date:
Atlantic Coast Pipel		UNT to						upa050			5/14/2015
State:	County:		C	Company:			Crew N	Member Initials	:	Photos:	
West Virginia	Upshur			NRG			GB, S			3 photo	DS
Tract Number(s):				learest Mile	epost:			Associated W	etland	ID(s):	
03-076; access roa	d 258		2	28.4				wupb007			
Survey Type: (check one)		ine	□Re-Ro	oute	⊠Ac	cess Road		□Other:			
Physical Attribute	S										
Stream Classification: (check one)	□Ephem	eral	⊠Interm	nittent	□Pe	rennial					
Waterbody Type:											
	River ⊠ :	Stream	Ditch	□ Ca	anal	□ Other	:				
ОНѠМ	OHWM Indi										
Width: <u>3.0</u> ft.	(check all that a	pply)		☑ Clear lin on bank	ne	□Shelvin	g	□Wrested vegetation		Scouring	I □Water staining
Height:	□Ben	t, matted, or	missing	□Wrack li	ne	□Litter ar	nd	□Abrupt plan	ıt	□Soil cł	naracteristic change
<u>0.5</u> ft. N/A□	vegeta		5			debris		community ch			J. J
Width of Waterbody - 1 Bank to Top of Bank:		h of Waterb be of Slope:		be of Slope	Width Water		ody - W	ater Edge to	Depth (Approx.)	of Water	:
Ballk to Top of Ballk.		be of Slope:			vvaler	Euge.			(Approx.)		<i>-</i>
<u> </u>		<u>2.0</u> ft.			N/A□		<u>1.25_</u> ft.		N/A□	-	<u>0.08</u> ft.
Sinuosity:	Wate	er velocity:			Bank h	eight			Bank	slope	
(check one)	(Appro				Danie	Right:			Danie	Right	
⊠Straight		_0.	<u>10_</u> fps				<u>3.0</u> ft.				70 degrees
□Meanderii	ng N/A					Left:	<u>3.0_</u> ft.			Left	<u>80</u> degrees
Qualitative Attribu	ites										
Water Appearance: (check one)	□No water	⊠Clear	□Turbid	d ⊡Sh	oon	□Su	rfaco	□Algal	□Othe	r:	
					surface			mats		1.	
	Bedrock	Boulder 🛛 🗵	Cobble	e 🛛 Grave	el 🛛	Sand [⊠ Silt/ c	lay 🛛 Organic	; 🗆 (Other:	
(check all that apply) % of Substrate:	%	%	<u>25_</u> %	<u>25</u> %	1	<u>5_%</u>	<u>25_</u> %	%	10	_%	
Width of Riparian Zone	e: Vegetat	ive Layers:									
	(check all i	that apply)		☑ Trees:	:		⊠ Saplir	ngs/Shrubs:	\geq	I Herbs	
<u>ft</u> . N/A⊠	Avg. DE (approx.)	BH of Domin	ants:	_ <u>10.0_</u> iı	n.	-	_ <u>1.25_</u> i	n.			
Dominant Bank Vegeta	ation (list):										
Black cherry, sugar orchard grass, ange	maple, black elica, golden	k locust, m ragwort, c	ultiflor lover.	a rose, M milkweed	orrow'	s honeys	suckle,	, autumn oliv	e, Vir	ginia cro	eeper, poison ivy,
Aquatic Habitats (ex: su	ubmerged or emer	ged aquatic ve	egetation,	overhanging	banks/ro	ots, leaf pac	ks, large	submerged wood	, riffles,	deep pools	5):
Leaf packs											
Aquatic Organisms Ob	oserved (list):										
none											
T&E Species Observed	d (list):										
none											
Disturbances (ex: liveste	ock access, manu	re in waterbod	y, waste o	discharge pipe	es):						
Parallels farm road	, livestock ac	cess, app	ears to	have bee	en ditc	hed in th	e past	, culvert cros	ssing	for Sag	o Road
Tributary is: (check one)	⊠ Natura	1		icial, man-m	ade	Manip	ulated				
Stream Quality ^a : (check one)	🗆 High		□ Mod	lerate		🛛 Low					

supa050

High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

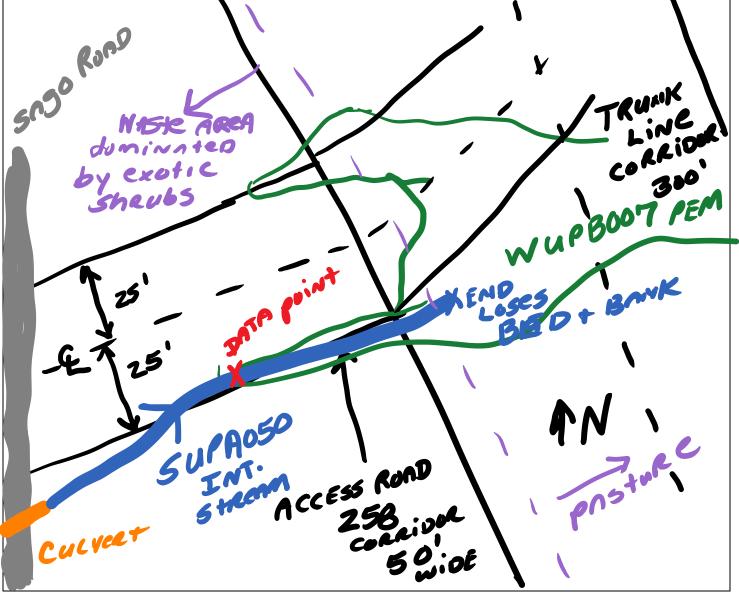
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Upstream continues out of access road corridor, downstream ends within wetland wupb007 within access road corridor

Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features)



Form Rev. 07/09/2014



Waterbody SUPA050 facing west upstream



Waterbody SUPA050 facing east downstream



Waterbody SUPA050 facing south across

Open Waterbod	ly Da	ta Sheet											
Survey Descripti	on												
Project Name:		N	Naterbod	y Name:			1	Water	body ID:			Date:	
Atlantic Coast Pip	eline	ι	Unname	ed pond	l			Oupe	e001			6/7/201	6
State:	Count	y:		Com	pany:		Crew	Memb	ber Initials:		Photos:	1	
West Virginia	Upshi	ur		NRG	3		CG,	SA			1-2		
Tract Number(s):	-			Near	est Milepost:			Associated Wetland ID(s):					
unknown				29.8				none	9				
Survey Type: (check one)				⊠Re-Roι	ute	□Access R	oad		Other:				
Physical Attribut	es												
	ck Pond	I 🗆 Natural	Pond 🛛	Lake 🗆] Reservoir	Impoundn	nent 🗆] Oxbo	ow 🗆 Othe	er:			
Hydrologic Regime:	⊠P	ermanently F	looded	□ Sem	ipermanently	Flooded	□ Seas	sonally	/ Flooded		Temporari	ily Floode	d
ОНWM		OHWM Indica (check all that app			🗆 Clear lin	e ⊡St	nelving		□Wrested	4	□Sco	urina	⊠Water
Height:			.,		on bank		leiving		vegetation			unig	staining
<u> 1 </u> ft.		⊠Bent, vegetati	matted, o on	r missing	g ⊟Wrack line	□Lit debr	ter and is		⊠Abrupt p community			naracteris	tic change
Depth of Water:			Bank he	eight (av	erage):			Ва	nk slope (a	avera	ige):		
N/A□	_ft.				<u>4</u> ft.					_6	<u>30</u> degree	es	
Qualitative Attrib	outes												
Water Appearance: (check one)	□No w	/ater □C	lear	⊠Turbid	□Shee on surfa		ISurface cum		□Algal mats	□0	other:		
Substrate: (check all that apply)	Bed	rock 🗆 Boi	ulder 🗵	Cobble	⊠ Gravel	⊠ Sand	⊠ Si	ilt/ clay	/ 🗆 Organ	nic	Other:		
% of Substrate:		%	_% _{	<u>5_</u> %	<u> 15 </u> %	<u>40</u> %	40	_%		%		%	
Width of Riparian Zon ft.	ne:	Vegetative (check all that a	•		⊠ Trees:		⊠ Sa∣	plings/	Shrubs:		⊠ He	rbs	
n. N/A⊠		Avg. DBH o	of Domina	ints:	<u>5</u> in.		_ <u>1_</u> ir	n.					
Dominant Bank Vege	tation ((list):											
Rushes, tulip tree,	, oak,	birch											
Aquatic Habitats (ex: s	submerge	d or emerged aqu	atic vegetatio	on, overhang	ging banks/roots, le	eaf packs, large	submerge	ed wood,	riffles, deep po	ools, etc	c.):		
Overhanging veg													
Aquatic Organisms C	Observe	ed (list):											
fish													
T&E Species Observe	ed (list):	:											
none													
Disturbances (ex: lives	stock ac	cess, manure ir	waterbody	y, waste di	scharge pipes):	:							
Drainage pipes													
Waterbody is: (check one)		□ Natural		⊠ Artific	cial, man-mad	e 🗆 Ma	nipulate	ed					
Waterbody Quality ^a : (check one)		□ High		□ Mode	erate	⊠ Low							

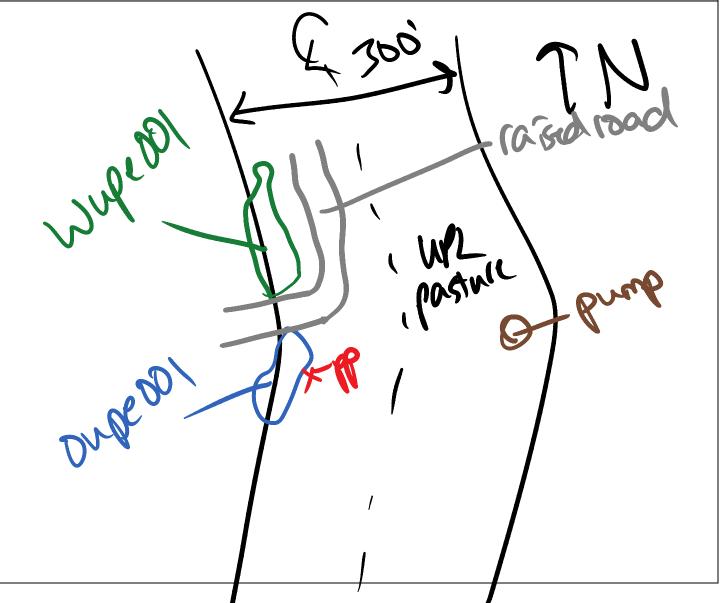
Oupe001

High Quality: Natural, natural bank vegetation around entire waterbody; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or bank vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:





Open waterbody OUPE001 facing south



Open waterbody OUPE001 facing southwest

Survey Description	n							
Project Name:		Waterbody Na				/aterbody ID:		Date:
Southeast Reliability		Unnamed T		French Creek	S	UPB007		6/26/2014
State:	County/Parish:		Company:			Member Initials:	Phot	0S:
West Virginia	Upshur			esource Group	TΡ		3	
Tract Number(s):			Nearest Mile	epost:		Associated We	tland ID(s):
03-080			28.3			WUPB008		
Survey Type: (check one)	⊠Centerline	e □Re-	Route	□Access Road		□Other:		
Physical Attributes	S							
Stream Classification: (check one)	Ephemera	al 🗆 Inte	rmittent	⊠Perennial				
Waterbody Type:								
(check one)	River Str	ream 🗌 Dit	ch 🗆 Ca	anal 🗌 Other	:			
OHWM	OHWM Indica (check all that appl		⊠ Clear lir	See	~			
Width: <u>5.0</u> ft.	(oncon an indiappi)	*/	on bank	ne ⊠Shelvin	g	□Wrested vegetation	Sco	uring
Height:	□Bent, r	natted, or missir	ng	ne 🗆 Litter ar	nd	□Abrupt plant	□S	oil characteristic change
ft. N/A□	vegetatio	n		debris		community cha	inge	
Width of Waterbody - T Bank to Top of Bank:			Toe of Slope	Width of Waterb	ody - W	ater Edge to	Depth of W Approx.)	ater:
•	to roe	of Slope:		Water Edge:		(*	-pp/0x.)	0.05 (
_ <u>_7_</u> ft.	-	<u>4_</u> ft.			<u>1.5_</u> ft.		J/A□	<u>0.25</u> ft.
Sinuosity:		velocity:		Bank height		E	Bank slope)
(check one)	(Approx.)			Right:	o (i		R	ight:
		<u>1.0_</u> fps	;	Left:	<u>3_</u> ft.			<u>85</u> degrees Left:
Meanderir	ng N/A□				<u>3_</u> ft.			<u>85</u> degrees
Qualitative Attribu	tes							
Water Appearance: (check one)	No water ⊠0	Clear 🗆 Turl		leen ⊡Sul i surface sci		□Algal □ mats	Other:	
Substrate:	Bedrock 🗆 Bo	oulder 🗆 Cob	ble 🗆 Grave	el 🗆 Sand 🛛	⊠ Silt/ c	clay 🗆 Organic	□ Other	 :
(check all that apply) % of Substrate:	%	%	%		100 %	%		%
			_70	_%%	100_%	70		_70
Width of Riparian Zone	c: Vegetative (check all that		⊠ Trees	. 5	⊠ Saplir	ngs/Shrubs:	Hert	ns
<u> </u>	Avg. DBH	of Dominants:	<u>in.</u>		<u>1.5</u> in	-		_in.
N/A⊠ Dominant Bank Vegeta	(approx.)							
Sugar maple, Amer		nite oak, spic	e bush, Chi	ristmas fern				
Aquatic Habitats (ex: su	ubmerged or emerge	d aquatic vegetatio	on, overhanging	banks/roots, leaf pac	ks, large	submerged wood,	riffles, deep	pools):
Overhanging trees,	debris piles, b	ars and bend	hes, very s	inuous, one lor	ng run	, few pools		
Aquatic Organisms Ob	served (list):							
none								
T&E Species Observed	<i>(list)</i> :							
none								
Disturbances (ex: livesto		-		-			-	
Recently timbered,	lots of dead sn	ags left in cr	eek bed, lo	gging road has	damn	ned upstream	portion	of creek
Tributary is: (check one)	[⊠] Natural		tificial, man-m	ade 🗌 Manip	ulated			
Stream Quality ^a : (check one)	□ High		oderate	□ Low				
r · · · · · /	— nign		oucidie					

Waterbody ID: SUPB007

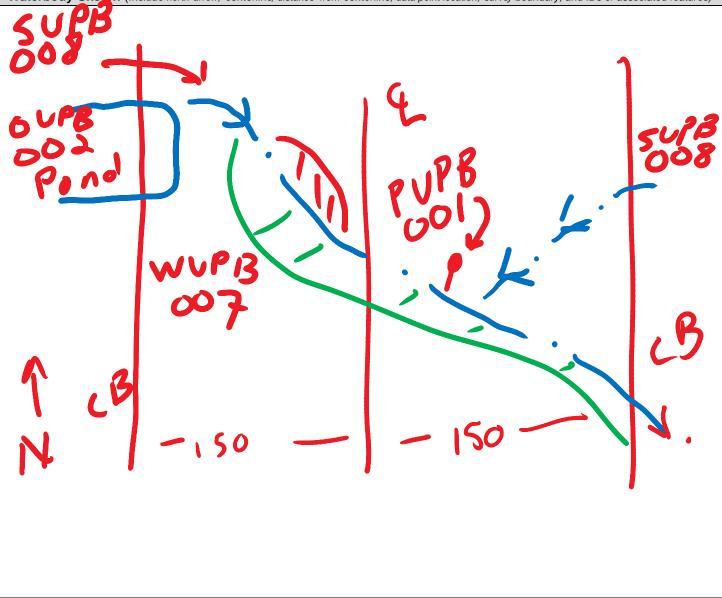
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features)





Waterbody SUPB007 facing north upstream



Waterbody SUPB007 facing south downstream



Waterbody SUPB007 facing east across

Survey Descriptio	n									
Project Name:		Waterbody	Name:			v	aterbody ID:		l	Date:
Southeast Reliabilit	•	Unnamed		-	ich Creek	S	UPA006			6/26/2014
State:	County/Parish:		Comp	-			Member Initials		Photos:	
West Virginia	Upshur		Natu	ral Resou	urce Group	GB, L	_E		3	
Tract Number(s):			Neare	st Milepos	t:		Associated W	etland	ID(s)	
03-084			29.0				WUPA007			
Survey Type: (check one)	⊠Centerlin	e □F	Re-Route		Access Road		□Other:			
Physical Attribute	S									
Stream Classification: (check one)	Ephemer	al 🛛	ntermittent	×	Perennial					
Waterbody Type:										
	River St	ream 🗆	Ditch	□ Canal	□ Other:					
онwм	OHWM Indica							_		
Width: <u>3.0_</u> ft.	(check all that app	ly)	□ C on b	lear line ank	Shelvin	g	⊠Wrested vegetation	\boxtimes	Scouring	g □Water staining
Height:	⊠Bent,	matted, or mis	ssing □W	rack line	⊠Litter ar	nd	□Abrupt plan	t	⊡Soil cł	naracteristic change
<u>0.75_</u> ft. N/A□	vegetatio	on	-		debris		community ch	ange		-
Width of Waterbody - T	op of Width	of Waterbod	y - Toe of		th of Waterbo	ody - W	ater Edge to	Depth (Approx.)	of Water	:
Bank to Top of Bank:	to I oe	of Slope:		wa	ter Edge:			(Approx.,)	
<u>5.0</u> ft.	-	<u>2.5</u> ft.		N/A		<u>2.5_</u> ft.		N/A□	<u>C</u>	<u>).50</u> ft.
Sinuosity:	Water	velocity:		-	nk height			Banks	slope	
(check one)	(Approx.				Right:				Right:	:
		1.5	fps		Left:	<u>2.5_</u> ft.			Left	<u>70</u> degrees
⊠Meanderin	ng N/A□					<u>3.0_</u> ft.			Len	<u>90</u> degrees
Qualitative Attribu	tes						· · · · · · · · · · · · · · · · · · ·			
Water Appearance: (check one)	No water	Clear 🗆 T	urbid	□Sheen on surf	⊡Sui ace scu		□Algal [mats	□Othe	r:	
Substrate:	Bedrock 🗆 B	oulder 🖂 C	obble 🛛	Gravel		⊠ Silt/ c			Other:	
(check all that apply)							, ,			
% of Substrate:	%	<u>% 10</u>	% _	<u>10 </u> %	<u>40</u> %	<u>40</u> %	%	_	_%	
Width of Riparian Zone	c: Vegetativ (check all that	e Layers: at apply)		Trees:	Σ	⊲ Sapliı	ngs/Shrubs:	\boxtimes	Herbs	
<u>30_ft</u> - N/A□	Avg. DBH (approx.)	l of Dominan		<u>12.0</u> in.		<u>1.0</u> in	-	_	in.	
Dominant Bank Vegeta	,									
Sugar maple, ironw		ite oak, wil	low, rasp	berry, de	eertongue, j	ewelv	veed, hop see	dge, r	nultiflor	a rose
Aquatic Habitats (ex: su	ubmerged or emerge	ed aquatic veget	ation, overh	anging bank	s/roots, leaf pac	ks, large	e submerged wood	, riffles,	deep pools	5):
Small pools, riffles,	pockets of em	ergent veg	etation							
Aquatic Organisms Ob	served (list):									
Frogs, minnows										
T&E Species Observed	l (list):									
none										
Disturbances (ex: livesto				••••		• • • • • •				
Along road 20/9 CR	cuivert cross	sing for dirt	two tracl	k, dam u	pstream ou	L OT CO	DITIOOF			
Tributary is: (check one)	☑ Natural		Artificial, r	man-made	🗆 Manipi	ulated				
Stream Quality ^a : (check one)	🗆 High		Moderate		□ Low					

Waterbody ID: SUPA006

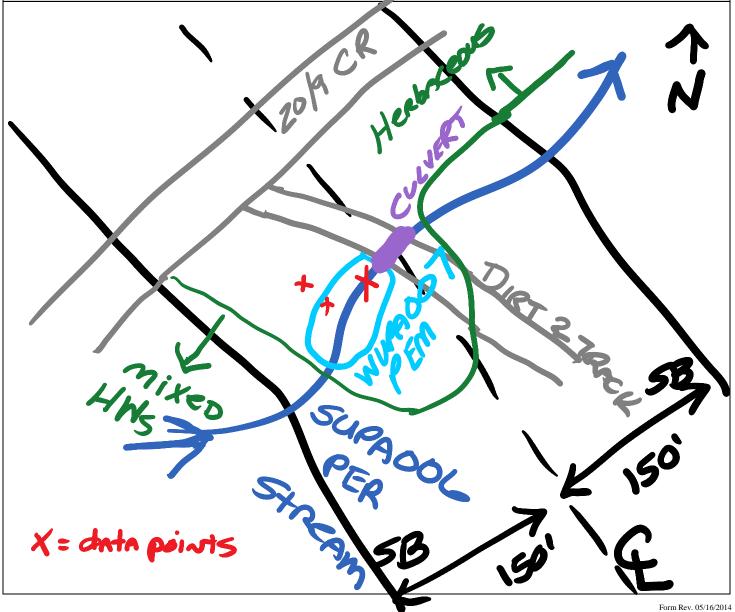
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Unnamed Tributary to French Creek, continues out of corridor in both directions; flows through WUPA007





Waterbody SUPA006 facing southwest upstream



Waterbody SUPA006 facing northeast downstream



Waterbody SUPA006 facing northwest across

Survey Description	n							
Project Name:		Waterbody Na	me:		W	/aterbody ID:		Date:
Atlantic Coast Pipe		UNT to Fren			_	UPB052		9/2/2015
State:	County:					Member Initials:	S:	
West Virginia	Upshur		NRG TP				3	
Tract Number(s):			Nearest Mile	epost:		Associated We	tland ID(s):	
03-090-AR1			31.1			none		
Survey Type: (check one)		e □Re-l	Route	⊠Access Road		□Other:		
Physical Attribute								
Stream Classification: (check one)	Ephemera	al 🛛 Inter	rmittent	Perennial				
Waterbody Type:								
(check one)	□River ⊠ Str	ream 🗆 Dito	ch 🗆 Ca	anal 🛛 Other	:			
OHWM Width: 5.0 ft.	OHWM Indica (check all that appl		⊠ Clear lir on bank	ne ⊠Shelvin	g	□Wrested vegetation	□Scou	ring ⊟Water staining
Height:	⊡Bent r	matted, or missir	na ⊡Wrack li	ne ⊠Litter ar	nd	□Abrupt plant	⊡Soi	I characteristic change
<u>ft</u> . N/A□	vegetatio	on	0	debris		community cha	inge	C C
Width of Waterbody - Bank to Top of Bank:		of Waterbody - of Slope:	Toe of Slope	Width of Waterb Water Edge:	ody - W		epth of Wa	ter:
<u>15.0ft</u> .		<u>3.0</u> ft.			f	it.		ft.
Cinuccitur	Wotor.	volocity		N/A⊠ Bank baight			I/A⊠	
Sinuosity: (check one)	(Approx.)	velocity:		Bank height Right:		E	ank slope Ric	lht:
□Straight		f	ps	_	<u>5.0</u> ft.		-	30 degrees
⊠Meanderi	ng N/A⊠			Left:	<u>7.0_</u> ft.		L	eft: <u>70</u> degrees
Qualitative Attribu	ıtes			<u> </u>				
Water Appearance: (check one)	⊠No water □0	Clear □Turt				□Algal □ mats	Other:	
Substrate:	□ Bedrock ⊠ Bo	oulder 🖂 Cobb					□ Other:	
(check all that apply)								
% of Substrate:	% _5_%	<u>20</u> %	<u> 50 </u> %	<u> 15 </u> %	<u>10_</u> %	%	%	D
Width of Riparian Zon	-	-	_					
<u>10 ft</u> -	(check all that Avg. DBH	t apply) of Dominants:				ngs/Shrubs:	⊠ Herb	S
	(approx.)			_in	<u>2</u> in.			
Dominant Bank Vegeta		alder, silky do	ogwood, jev	velweed, wing	stem,	and multiflora	rose	
Aquatic Habitats (ex: s	ubmerged or emerge	d aquatic vegetatio	n, overhanging	banks/roots, leaf pac	ks, large	submerged wood,	riffles, deep p	ools):
Cobble, woody deb		6						
Aquatic Organisms Ol								
Mayfly and stonefly	larvae							
T&E Species Observe	d (list):							
none								
Disturbances (ex: livest		-		-				
Road culvert, blow	n out on downs	tream end of	culvert, fes	scue/yard upstr	ream o	of culvert		
Tributary is: (check one)	⊠ Natural		tificial, man-m	ade 🗌 Manip	ulated			
Stream Quality ^a : (check one)	🗆 High	⊠ Mo	oderate	□ Low				

Waterbody ID: SUPB052

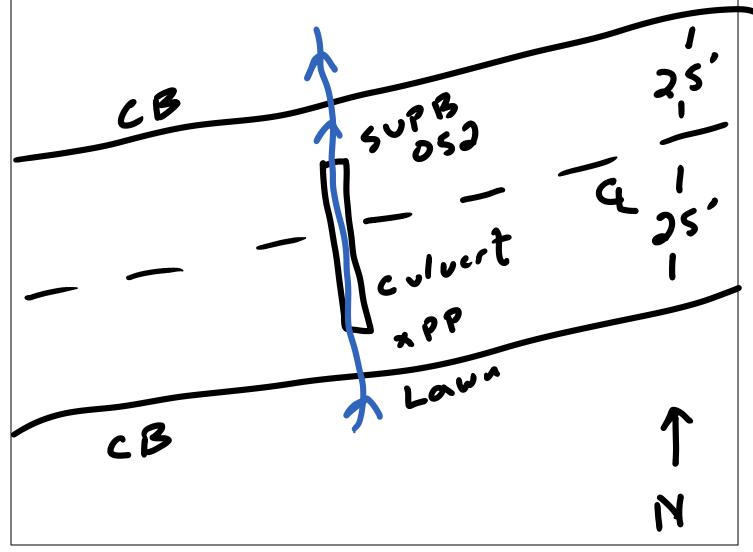
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Intermittent stream, weak riffle pool sequence, moderate grade control, moderate bars and benches, and a few pools with standing water. Deeply incised downstream of road culvert. Noted raccoon tracks. Recorded as SUPA006 in trunkline.





Waterbody SUPB052 facing south upstream



Waterbody SUPB052 facing north downstream



Waterbody SUPB052 facing east across

Survey Description	n								
Project Name:		Waterbody Nan			/aterbody ID: UPB053			ate:	
Atlantic Coast Pipel		UNT to Frence	NT to French Creek						2/2015
State:	County:		Company:		Crew N	w Member Initials: Photos			
West Virginia	Upshur		NRG TP, 0			GB 01-03			
Tract Number(s):			Nearest Mile	epost:		Associated W	etland	ID(s):	
03-090-AR1			31.1			none			
Survey Type: (check one)		e □Re-R	oute	⊠Access Road		□Other:			
Physical Attributes	S								
Stream Classification: (check one)	□ Ephemera	al 🛛 Interr	nittent	□Perennial					
Waterbody Type:	Lphomore								
Waterbody Type: (check one)	River 🛛 Str	eam 🗆 Ditcl	h 🗆 Ca	anal 🗌 Other:	:				
ОНШМ	OHWM Indica								
Width: <u>3.0</u> ft.	(check all that apply	/)	☑ Clear lir on bank	ne ⊠Shelvin	g	□Wrested vegetation		Scouring	□Water staining
Height:	,	natted, or missing	g		nd	□Abrupt plan		□Soil cha	aracteristic change
ft. N/A□	vegetatio	n		debris		community ch	ange		
Width of Waterbody - T Bank to Top of Bank:		of Waterbody - T of Slope:	oe of Slope	Width of Waterbo Water Edge:	ody - W		Depth ((Approx.)	of Water:	
•		•		water Euge.			(Approx.)		4
<u>ft</u> .		<u>2.0</u> ft.			f	t.	N/A⊠		ft.
Sinuosity:		velocity:		Bank height			Bank s	lope	
(check one)	(Approx.)			Right:				Right:	
		fp	S	Left:	<u>4.0</u> ft.			Left:	<u>85</u> degrees
Meanderir	ng N/A⊠			-	<u>4.0_</u> ft.			-	85 degrees
Qualitative Attribu	tes								
Water Appearance: (check one)	[]] No water □0	Clear □Turbi		leen ⊡Sui i surface sci		□Algal [mats	□Other	:	
	Bedrock 🗆 Bo	ulder 🛛 Cobbl	e 🛛 Grave	el 🛛 Sand 🛛	⊠ Silt/ c	lay 🗆 Organic)ther:	
(check all that apply) % of Substrate:	% %	30 %	30 %	<u>15</u> %	25 %	%		%	
			/0	<u></u> ,,	<u> </u>	70			
Width of Riparian Zone	e: Vegetative (check all that		⊠ Trees	: D	⊠ Saplir	ngs/Shrubs:	\boxtimes	Herbs	
<u>10 ft</u> - N/A□	Avg. DBH (approx.)	of Dominants:	<u>10</u> in.		<u>2</u> in.	<u><u></u></u>			
Dominant Bank Vegeta	tion (list):								
(Powerline ROW up	stream of culv	ert) Sycamore	e, ironwood	d, wing stem, d	eer-to	ngue			
Aquatic Habitats (ex: su	Ibmerged or emerged	d aquatic vegetation	, overhanging	banks/roots, leaf pac	ks, large	submerged wood,	, riffles, c	deep pools):	:
Cobble									
Aquatic Organisms Ob	served (list):								
none									
T&E Species Observed	l (list):								
none									
Disturbances (ex: livesto	ock access, manure i	n waterbody, waste	discharge pipe	es):					
Road culvert, maint	ained power lir	ne ROW upstr	eam of cu	lvert					
Tributary is: (check one)	⊠ Natural	□ Arti	ficial, man-m	ade 🗆 Manipi	ulated				
Stream Quality ^a : (check one)	□ High	⊠ Mo	derate	□ Low					

Waterbody ID: SUPB053

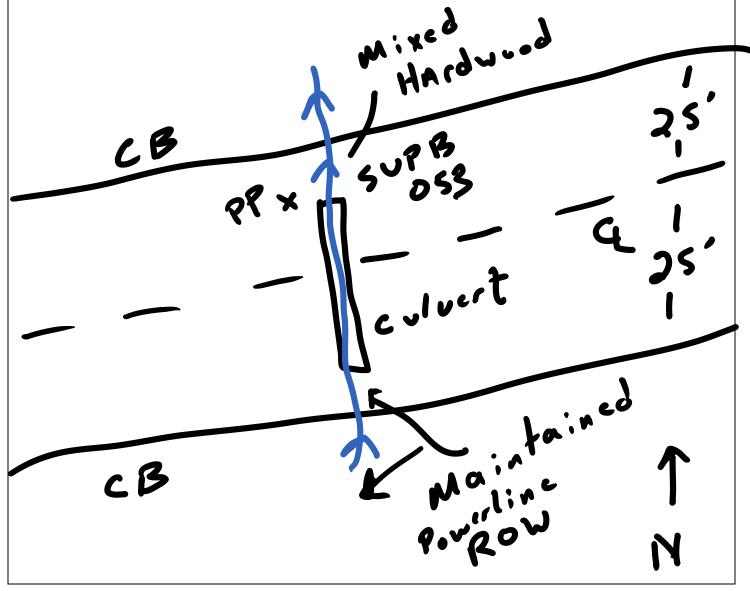
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Intermittent stream, weak sinuosity, weak grade control.





Waterbody SUPB053 facing southwest upstream



Waterbody SUPB053 facing northeast downstream



Waterbody SUPB053 facing southeast across

Survey Descriptio	n							
Project Name:		Waterbody Na				Vaterbody ID:		Date:
Southeast Reliabilit	у	Unnamed Tr	ibutary to F	French Creek	S	SUPA007	6/26/2014	
State:	County/Parish:		Company		Crew I	Member Initials:	Photos	5:
West Virginia	Upshur		Natural Re	esource Group	GB, L	E	3	
Tract Number(s):			Nearest Mile	epost:		Associated We	tland ID(s)	
03-089			29.3			WUPA008		
Survey Type: (check one)	⊠Centerline	e □Re-F	Route	□Access Road		□Other:		
Physical Attribute	s							
Stream Classification: (check one)	□ Ephemera	al ⊠Inter	rmittent	□Perennial				
Waterbody Type: (check one)	River ⊠ St	ream 🗆 Dito	ch 🗆 Ca	anal 🛛 Other	:			
OHWM Width: <u>3.0_</u> ft.	OHWM Indica (check all that appl		□ Clear lir on bank	ne 🗆 Shelvin	g	⊠Wrested vegetation	Scour	ing ⊡Water staining
Height: <u>0.50_</u> ft. N/A□	□Bent, r vegetatio	matted, or missin on	ig	ne ⊠Litter ar debris	nd	□Abrupt plant community cha		characteristic change
Width of Waterbody - T Bank to Top of Bank:		of Waterbody - of Slope:	Toe of Slope	Width of Waterb Water Edge:	ody - W	Vater Edge to D	Depth of Wat	er:
<u>5.0</u> ft.	-	<u>1.5</u> ft.		1 N/A□	<u>1.5_</u> ft.	N	I/A 🗆	<u>0.25</u> ft.
Sinuosity: (check one) □Straight ⊠Meanderin	(Approx.)	velocity:) <u>0.5</u> fps	3	Bank height Right: Left:	<u>1.5_</u> ft. <u>1.5_</u> ft.		Bank slope Rig	ht:
Qualitative Attribu				<u> </u>				
Water Appearance: (check one)	No water ⊠	Clear □Turb		leen □Sul i surface scu		□Algal □ mats	Other:	
Substrate: [(check all that apply) % of Substrate:	Bedrock DBo	oulder □ Cobb % _%		el ⊠ Sand <u>30</u> %	⊠ Silt/ o _70_%	clay	□ Other: %	
Width of Riparian Zone <u>WUPA008</u> ft N/A□	(check all tha		⊠ Trees: _ <u>12_</u> in.		⊠ Sapliı _ <u>1.0_</u> in	ngs/Shrubs: n.	⊠ Herbs i	n.
Dominant Bank Vegeta White oak, yellow p		ım, multiflora	rose, Japa	nese spirea, de	eerton	gue, cinnamo	n fern	
Aquatic Habitats (ex: su Pockets of emerger		d aquatic vegetatio	n, overhanging	banks/roots, leaf pac	ks, large	e submerged wood, I	riffles, deep po	pols):
Aquatic Organisms Ob none	served (list):							
T&E Species Observed none	l (list):							
Disturbances (ex: livesto	nek access manufe	in waterbody, wast	a dischargo piac	25).				
Logged area	oon access, manule	m waterbouy, wast	e uischarge pipe	.				
Tributary is: (check one)	☑ Natural	□ Ar	tificial, man-m	ade 🗆 Manip	ulated			
Stream Quality ^a : (check one)	\Box High	⊠ Mo	oderate	□ Low				

Waterbody ID: SUPA007

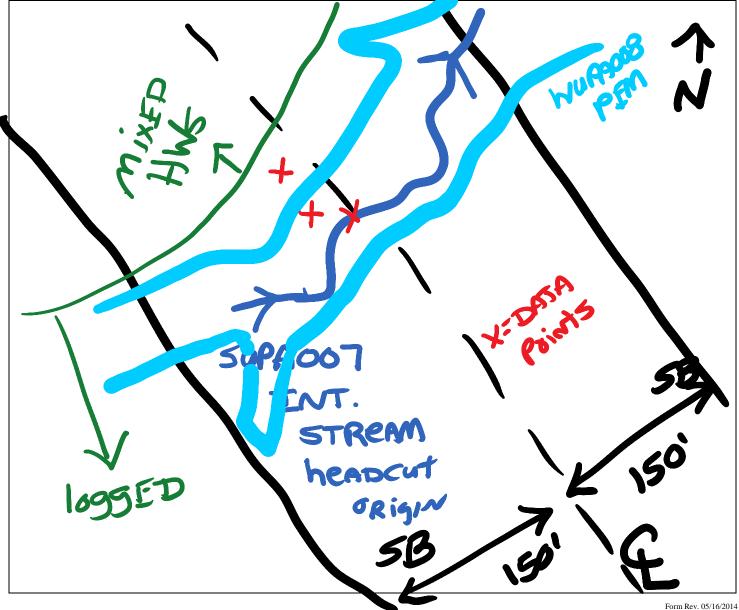
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Unnamed Tributary to French Creek, originates at a seep and headcount within corridor, downstream continues out flows through wetland WUPA008





Waterbody SUPA007 facing southwest upstream



Waterbody SUPA007 facing northeast downstream



Waterbody SUPA007 facing northwest across

Survey Descriptio	n	-						
Project Name:		-				Vaterbody ID:		Date:
Southeast Reliabilit		French Cree	-			SUPA008		6/26/2014
State:	County/Parish:		Company			Member Initials:	Photos:	
West Virginia	Upshur		Natural Re	esource Group	GB, I	LE	3	
Tract Number(s):			Nearest Mile	epost:		Associated Wet	land ID(s)	
03-090			29.5			WUPA009		
Survey Type: (check one)	⊠Centerline	□Re-F	Route	□Access Road		□Other:		
Physical Attribute	S							
Stream Classification: (check one)	Ephemera	l ⊡Inter	mittent	⊠Perennial				
Waterbody Type:								
(check one)	River Str	eam 🗆 Dito	h 🗆 C	anal 🗆 Other				
OHWM Width: <u>40.0</u> ft.	OHWM Indicat (check all that apply		⊠ Clear lir on bank	ne 🗆 Shelvin	g	⊠Wrested vegetation	⊠Scourin	g ⊟Water staining
Height: <u>2.5</u> ft.	□Bent, n vegetatio	natted, or missin n	g ⊠Wrack li	ne ⊠Litter ar debris	nd	□Abrupt plant community char		haracteristic change
N/A 🗆	Ũ					,	0	
Width of Waterbody - T Bank to Top of Bank:		of Waterbody - of Slope:	Foe of Slope	Width of Waterbo Water Edge:	ody - V	Vater Edge to De	epth of Wate	r:
<u>55.0</u> ft.	-	<u>_35.0_</u> ft.		<u>3</u> N/A□	<u>5.0_</u> ft.		/A□	<u>1.5</u> ft.
Sinuosity:		velocity:		Bank height		B	ank slope	
(check one)	(Approx.)			Right:			Right	
		<u>0.5</u> fps		Left:	<u>20.0_</u> f	τ.	Lef	<u>70</u> degrees t:
Meanderin	ng N/A□			-	<u>6.0_</u> ft.			70 degrees
Qualitative Attribu	tes							
Water Appearance: (check one)	No water ⊠C	Clear □Turb		neen ⊡Sui n surface sci		□Algal □ mats	Other:	
	Bedrock 🗆 Bo	ulder 🗆 Cobb	le 🗆 Grav	el 🛛 Sand 🛛	⊠ Silt/ o	clay 🗆 Organic	Other:	
(check all that apply) % of Substrate:	%	_%%	, o	% <u>40</u> %	<u>60</u> %		%	
Width of Riparian Zone	: Vegetative	Lavers:						
-	(check all that	apply)	☑ Trees	: D	🛛 Sapli	ngs/Shrubs:	⊠ Herbs	
<u>40 ft</u> - N/A□	Avg. DBH (approx.)	of Dominants:	_ <u>14_</u> in.	-	<u>1.0</u> ir	٦.	in.	
Dominant Bank Vegeta	tion (list):							
Sycamore, northerr	ı red oak, suga	r maple, beed	ch, ironwoo	od, wingstem, p	oison	i ivy, Japanese	stiltgrass,	jewelweed
Aquatic Habitats (ex: su				banks/roots, leaf pac	ks, large	e submerged wood, r	iffles, deep poo	ls):
Woody debris piles,	overhanging r	oots, riffles, r	uns					
Aquatic Organisms Ob	served (list):							
Frog, fish								
T&E Species Observed	l (list):							
none								
Disturbances (ex: livesto	ock access, manure i	n waterbody, waste	e discharge pip	es):				
Railroad tracks on e	east side							
Tributary is: (check one)	[⊠] Natural	□ Art	ificial, man-m	ade 🗆 Manip	ulated			
Stream Quality ^a : (check one)	□ High	⊠ Mc	oderate	□ Low				

Waterbody ID: SUPA008

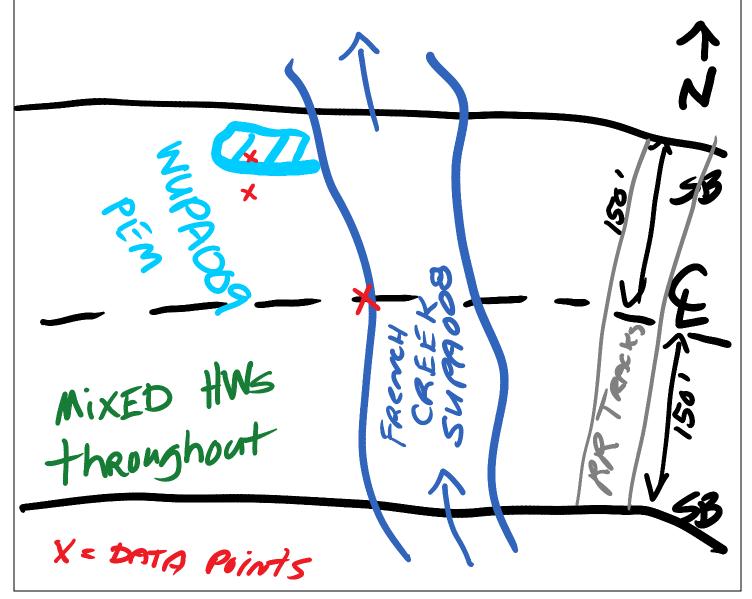
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

French Creek, continues out of corridor both directions, upline and downline taken, wetland WUPA009 is connected





Waterbody SUPA008 facing south upstream



Waterbody SUPA008 facing north downstream



Waterbody SUPA008 facing east across

Survey Description	n								
Project Name:		Waterbody Na				Vaterbody ID:			Date:
Southeast Reliabilit	у	Buckhannor	n River		S	SUPA009			6/27/2014
State:	County/Parish:	·	Company		Crew	Member Initials	: 1	Photos:	
West Virginia	Upshur		Natural Re	esource Group	GB, I	_E		3	
Tract Number(s):			Nearest Mile	epost:		Associated W	etland	ID(s)	
03-097			30.0			none			
Survey Type: (check one)	⊠Centerlin	e □Re-	Route	□Access Road		□Other:			
Physical Attribute	S								
Stream Classification: (check one)	Ephemer	ral □Inte	rmittent	⊠Perennial					
Waterbody Type: (check one)	IRiver □ St	ream 🗆 Dit	ch 🗆 C	anal 🛛 Other	:				
OHWM Width: <u>75.0</u> ft.	OHWM Indica (check all that app		⊠ Clear lir on bank	ne ⊠Shelvin	g	⊠Wrested vegetation	\boxtimes	Scouring	g ⊟Water staining
Height: <u>3.5_</u> ft. N/A□	□Bent, vegetatio	matted, or missii on	ng ⊠Wrack li	ne ⊠Litter ar debris	nd	□Abrupt plan community ch		⊡Soil cl	haracteristic change
Width of Waterbody - T Bank to Top of Bank:		of Waterbody - of Slope:	Toe of Slope	Width of Waterb Water Edge:	ody - V	Vater Edge to	Depth (Approx.)	of Water	:
<u>95.0</u> ft.		<u>60.0</u> ft.		<u>6</u> N/A□	<u>5.0_</u> ft.		N/A□		<u>2.0</u> ft.
Sinuosity: (check one) □Straight ⊠Meanderir	(Approx.	velocity:) <u>2.0</u> fp	s	Left:	<u>12.0_</u> f	t.	Bank s	lope Right Left	<u>75</u> degrees
Qualitative Attribu				-	<u>10.0_</u> ft	. <u> </u>			60 degrees
Water Appearance:									
(check one)	No water ⊠	Clear DTur		neen ⊡Su nisurface sci		□Algal mats	□Other	:	
Substrate: (check all that apply) % of Substrate:	Bedrock ⊠ B % <u>15</u>	oulder ⊠ Cob _% _ <u>15_</u> °			⊠ Silt/ (<u>40_</u> %	clay □ Organic %	; □ C %	Other: 6	
Width of Riparian Zone		e Layers:	× •	5		(0)	57		
<u>250 ft</u> . N/A⊡	(approx.)	l of Dominants:	⊠ Trees <u>14.0_</u> in.		⊠ Sapli _ <u>1.0_</u> ir	ngs/Shrubs: n.		Herbs in.	
Dominant Bank Vegeta Sycamore, sugar m iewelweed		olar, rhododer	ndron, Japa	nese spirea, do	ogwoo	od, Japanese	knotw	veed, w	vingstem, stiltgrass
Aquatic Habitats (ex: su Woody debris piles,				-	-	-			s):
Aquatic Organisms Ob	served (list):								
Frog, fish									
T&E Species Observed	(list):								
none									
Disturbances (ex: livesto	ock access, manure	in waterbody, was	te discharge pip	es):					
Railroad tracks and	road on west	side, road or	east side						
Tributary is: (check one)	☑ Natural		rtificial, man-m	ade 🗆 Manip	ulated				
Stream Quality ^a : (check one)	[⊠] High		oderate	□ Low					

Waterbody ID: SUPA009

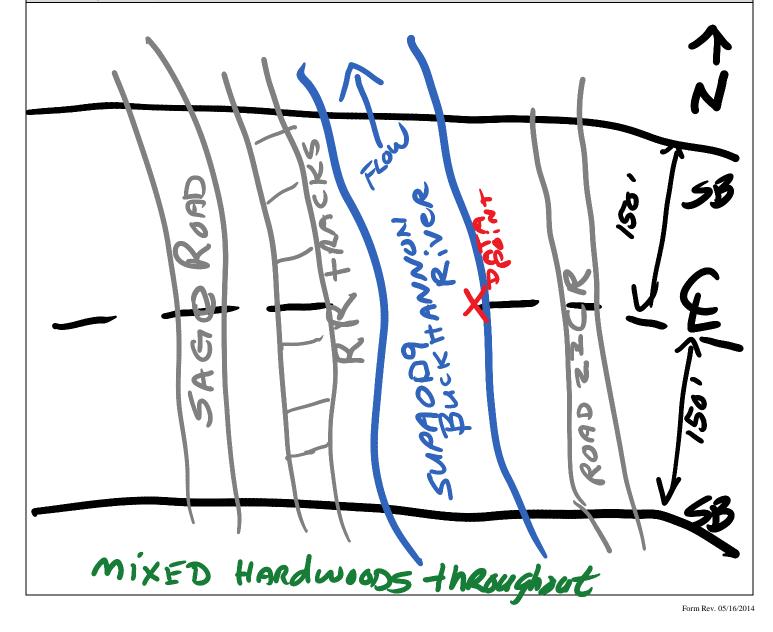
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Buckhannon River, continues out of corridor both directions, upline and downline taken





Waterbody SUPA009 facing south upstream



Waterbody SUPA009 facing north downstream



Waterbody SUPA009 facing west across

Survey Description	n									
Project Name:			ody Name				Waterbody ID:			Date:
Southeastern Relia	-			-	Buckhannon Ru		UPA010			6/27/2014
State:	County/Pari	ish:		ompany	-		Member Initials	:	Photos:	
West Virginia	Upshur				esource Group	GB, L			3	
Tract Number(s):				earest Mile	epost:		Associated W	etland	ID(s)	
03-098, 03-099			3	1.2			none			
Survey Type: (check one)	⊠Cen	terline	□Re-Ro	ute	□Access Road		□Other:			
Physical Attribute										
Stream Classification: (check one)		emeral	⊠Intermi	ittent	□Perennial					
Waterbody Type:										
	River	Stream	□ Ditch	🗆 Ca	anal 🛛 Other	: Linear	seep			
ОНШМ		ndicator:								
Width: <u>1.0_</u> ft.	(check all th	at apply)		Clear lin on bank	ne ⊡Shelvin	g	☐Wrested vegetation		Scouring	g □Water staining
Height:	□B	Bent, matted, o	r missing	□Wrack li	ne ⊠Litter ar	nd	□Abrupt plan	t	□Soil cl	haracteristic change
<u>0.10_</u> ft. N/A□	veg	etation			debris		community ch	ange		
Width of Waterbody - Bank to Top of Bank:		idth of Water		e of Slope	Width of Waterbe Water Edge:	ody - W	ater Edge to	Depth (Approx.)	of Water	
					Ū			()		0.40 H
<u>3.0</u> ft.		<u>_0.75</u> ft			<u>∩</u>	<u>).5_</u> ft.		N/A□	<u>(</u>	<u>0.10</u> ft.
Sinuosity:		later velocity:	:		Bank height			Bank s	slope	
(check one)	(A	pprox.)			Right:	40 4			Right	
		<u> 0.</u>	<u>25_</u> fps		Left:	<u>1.0_</u> ft.			Left	<u>35</u> degrees
□Meanderi	ing N	/A□			-	<u>1.0_</u> ft.				<u>35</u> degrees
Qualitative Attribu	utes									
Water Appearance: (check one)	☐No water	⊠Clear	□Turbid	⊡Sh on	leen ⊡Sui surface scu		□Algal mats	□Othe	r:	
Substrate:	Bedrock	Boulder	⊠ Cobble	Grave	el 🛛 Sand 🛛	⊠ Silt/ o	clay 🛛 Organic	: □ (Other:	
(check all that apply) % of Substrate:	10%	_%	_ <u>20 </u> %	%	<u>30</u> %	<u>20</u> 9	%%		%	
Width of Riparian Zon	e. Vege	tative Layers								
	(check	all that apply)		⊠ Trees:		⊠ Sapliı	ngs/Shrubs:	\boxtimes	Herbs	
_ <u>_ft</u> - N/A⊠	Avg. (appro	DBH of Domi	inants:	<u>14.0</u> ir	ו. <u>-</u>	_ <u>1.0_</u> in			in.	
Dominant Bank Veget	ation (list):	,								
Sugar maple, ches	tnut oak, bl	lack gum, g	reenbrie	r, beech,	rhododendron	, stiltg	Irass			
Aquatic Habitats (ex: s	submerged or er	merged aquatic	vegetation,	overhanging	banks/roots, leaf pac	ks, large	submerged wood	, riffles,	deep pool	s):
Leaf packs										
Aquatic Organisms Of	oserved (list):									
none										
T&E Species Observe	d (list):									
none										
Disturbances (ex: livest	tock access, ma	anure in waterbo	dy, waste d	ischarge pipe	es):					
none										
Tributary is: (check one)	⊠ Nat	ural	□ Artific	cial, man-m	ade 🗆 Manip	ulated				
Stream Quality ^a : (check one)	□ Hig	h	🛛 Mode	erate	□ Low					

Waterbody ID: SUPA010

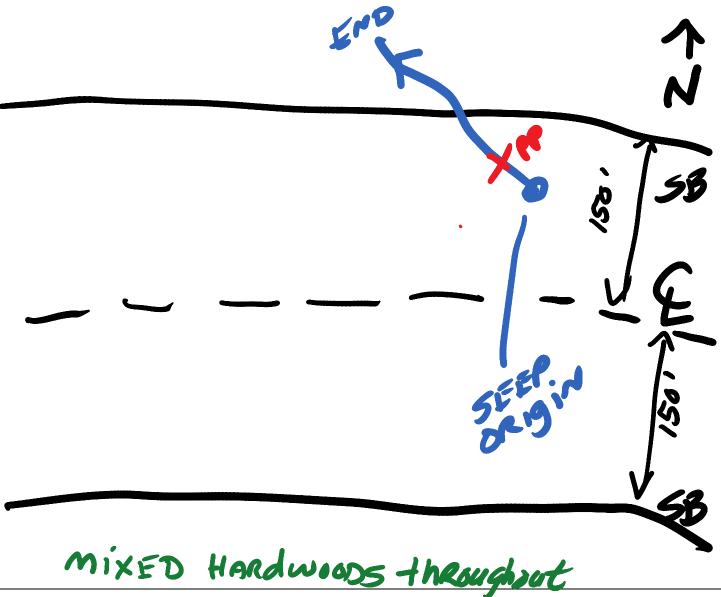
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes:

Linear seep feature with week stream parameters but decent flow, begins in corridor at a seep on steep sideslope, feature ends just outside corridor.





Waterbody SUPA0010 facing east upstream



Waterbody SUPA010 facing west downstream



Waterbody SUPA010 facing north across

Survey Descriptio	n				<u> </u>	Vaterbody ID:			
Project Name:		-	Waterbody Name:					Date:	
Southeastern Relia	•	Unnamed T	nnamed Tributary to Trubie Run			SUPA011		6/27/2014	
State:	County/Parish:	-	Company			Member Initials:	Pł	notos:	
West Virginia	Upshur		Natural Re	esource Group	GB, l	_E	3		
Tract Number(s):	1		Nearest Mile	epost:		Associated We	tland ID	D(s)	
03-100			31.4			none			
Survey Type: (check one)	⊠Centerlir	ne □Re-	Route	□Access Road		□Other:			
Physical Attribute	S								
Stream Classification: (check one)	□Epheme	ral ⊠Inte	ermittent	Perennial					
Waterbody Type: (check one)	River ⊠ S	tream	ich 🗆 Ca	anal 🗌 Other	:				
OHWM Width: <u>4.0_f</u> t.	OHWM Indic (check all that app		□ Clear lir on bank	ne 🗆 Shelvin	g	□Wrested vegetation	□S	couring ⊟Water staining	
Height: <u>0.50_</u> ft. N/A□	□Bent, vegetati	matted, or missi	ng □Wrack li	ne ⊠Litter ar debris	nd	□Abrupt plant community cha		Soil characteristic chang	le
Width of Waterbody - 1 Bank to Top of Bank:		of Waterbody - e of Slope:	Toe of Slope	Width of Waterb Water Edge:	ody - W	Vater Edge to	Depth of Approx.)	Water:	
<u>6.0</u> ft.		<u>3.0</u> ft.		N/A□	<u>2.5_</u> ft.	1	N/A□	<u>0.25</u> ft.	
Sinuosity: (check one) □Straight ⊠Meanderii	(Approx	<u>0.25</u> fp	DS	Left:	<u>3.5_</u> ft 2.5_ft.		3ank slo	ppe Right: <u>50</u> degrees Left: <u>70</u> degrees	
Qualitative Attribu				<u> </u>	<u></u>			<u></u>	
Water Appearance:	_	Clear □Tur	bid □Sh	neen ⊡Su	rfaco		Other:		
			on	surface sci		□Algal □ mats			
Substrate: (check all that apply) % of Substrate:] Bedrock □ B %	Soulder ⊠ Cob _% _ <u>40_</u> %			⊠ Silt/ o <u>30</u>		□ Oth	her: %	
Width of Riparian Zone _ <u>ft</u> .	(check all the	ve Layers: at apply) H of Dominants:	⊠ Trees _ <u>12.0_</u> in		⊠ Sapli 1.25	ngs/Shrubs:	⊠H	lerbs in.	
N/A⊠ Dominant Bank Vegeta	(approx.)		<u>-12.0</u>	-	_ 1.20			<u> </u>	
Sugar maple, chest		poplar, greer	nbrier, ironw	ood, multiflora	rose,	beech, ladyfe	ern, stil	tgrass	
Aquatic Habitats (ex: su	ubmerged or emerge	ed aquatic vegetati	on, overhanging	banks/roots, leaf pac	ks, large	e submerged wood,	riffles, de	ep pools):	
Leaf packs									
Aquatic Organisms Ob	served (list):								
none									
T&E Species Observed	l (list):								
none									
Disturbances (ex: liveste	ock access, manure	e in waterbody, was	te discharge pipe	es):					
Refuse dumping									
Tributary is: (check one)	[⊠] Natural	□ A	rtificial, man-m	ade 🗆 Manip	ulated				
Stream Quality ^a : (check one)	□ High	⊠ M	oderate	□ Low					

Waterbody ID:

SUPA011

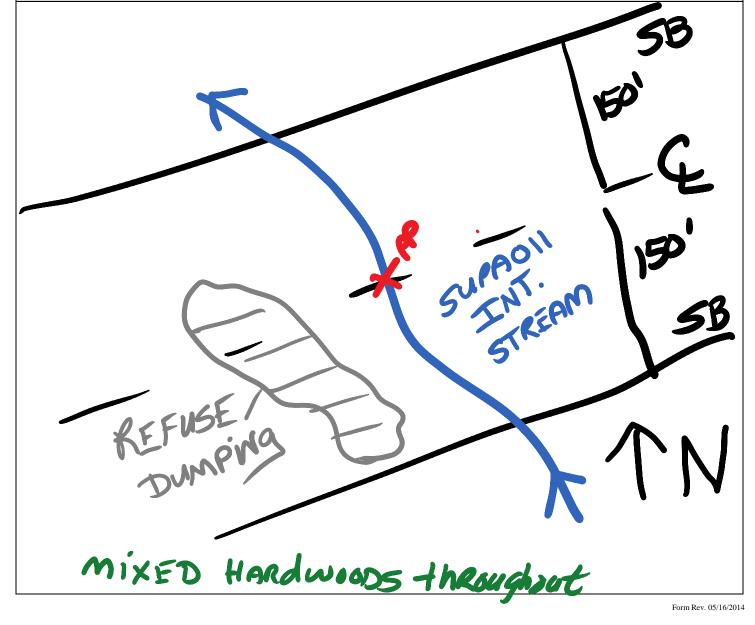
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Notes:

Unnamed Tributary to Trubie Run, continues out of corridor both directions





Waterbody SUPA00101 facing southeast upstream



Waterbody SUPA011 facing northwest downstream