

Waterbody ssuo010 facing south across bank.

Linear Waterbody Data Sheet **Survey Description** Waterbody ID: Date: Project Name: Waterbody Name: 10/21 Crew Member Initials: Photos: State: County/Parish: Company: Associated Wetland ID(s): Tract Number(s): Nearest Milepost: MCNODE 26-013-4030, 26-013-A029 Survey Type: □ Centerline Re-Route □Other: (check one) ☐Access Road Physical Attributes Stream Classification: (check one) □ Ephemeral Perennial □Intermittent Waterbody Type: Stream ☐ Ditch ☐ Other: (check one) □River ☐ Canal OHWM **OHWM Indicator: Wrested** □Water Clear line Shelving ☐ Scouring Width: vegetation staining on bank ☑Bent, matted, or missing □Wrack line ☐Soil characteristic change Height: □Litter and ☐ Abrupt plant community change vegetation debris Depth of Water: Width of Waterbody - Top of Width of Waterbody - Toe of Slope Width of Waterbody - Water Edge to Bank to Top of Bank: to Toe of Slope: Water Edge: N/A 🗆 N/A 🗆 Bank slope Sinuosity: Water velocity: Bank height (check one) Right: □Straight degrees Left: Meandering degrees N/A Qualitative Attributes Water Appearance: □Other: □No water Clear □Algal □Sheen □Surface (check one) □Turbid on surface scum mats Silt/ clay ☐ Organic Other: Substrate: ☐ Cobble ☐ Sand ☐ Bedrock □ Boulder ☐ Gravel (check all that apply)
% of Substrate: Width of Riparian Zone: Vegetative Layers: (check all that apply) ☐ Herbs Trees: □ Saplings/Shrubs: Avg. DBH of Dominants: 0 in. N/A 🗆 Dominant Bank Vegetation (list): Aquatic Habitats (ex: submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): Aquatic Organisms Observed (list): T&E Species Observed (list): Disturbances (ex: livestock access, manure in waterbody, waste discharge pipes): Tributary is: √ Natural (check one) ☐ Artificial, man-made ☐ Manipulated Stream Quality \*: (check one) ☐ High Moderate

☐ Low

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\* 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.

from livestock or man. Notes: Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) 5500006 N540016



Waterbody ssuo099 facing north upstream.



Waterbody ssuo099 facing south downstream.



Waterbody ssuo099 facing east across bank.

Linear Waterbody Data Sheet Survey Description Project Name: Waterbody Name: Waterbody ID: ssur 007 UNT to Kingsale SWAMP State: County/Parish: Company: Crew Member Initials: Photos: CAJ, (SM Associated Wetland ID(s): Nearest Milepost: Tract Number(s): wsua 074 Survey Type: ☐ Access Road □Other: (check one) □Centerline □Re-Route Physical Attributes Stream Classification: (check one) □ Ephemeral □Intermittent Perennial Waterbody Type: Ditch (check one) □River □ Stream ☐ Canal Other: OHWM OHWM Indicator: Width: (check all that apply) ☐ Clear line □ Shelving □Wrested □ Scouring □W ater on bank vegetation staining Height: ☑Bent, matted, or missing □Wrack line ☐Litter and ☐ Abrupt plant ☐ Soil characteristic change vegetation debris community change N/A Depth of Water: Width of Waterbody - Top of Width of Waterbody - Toe of Slope Width of Waterbody - Water Edge to (Approx.) Bank to Top of Bank: to Toe of Slope: Water Edge: N/AD N/A Sinuosity: Water velocity: Bank height Bank slope (check one) (Approx.) Right: Straight degrees Left: □ Meandering degrees N/A 🗆 Qualitative Attributes Water Appearance: □ No water Clear (check one) □Turbid ☐ Sheen □ Surface □Algal Other: on surface mats scum ☐ Cobble Silt/ clay Substrate: ☐ Bedrock ☐ Boulder ☐ Gravel ☐ Sand Organic ☐ Other: (check all that apply) % of Substrate: Width of Riparian Zone: Vegetative Layers: (check all that apply) ☐ Trees: Herbs ☐ Saplings/Shrubs: Avg. DBH of Dominants: N/AM Dominant Bank Vegetation (list): mowed herbs and saplings Aquatic Habitats (ex: submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): None Aquatic Organisms Observed (list): T&E Species Observed (list): OY Disturbances (ex; livestock access, manure in waterbody, waste discharge pipes): Tributary is: (check one) ☐ Natural Artificial, man-made □ Manipulated

Stream Quality \*:

□ High

Moderate

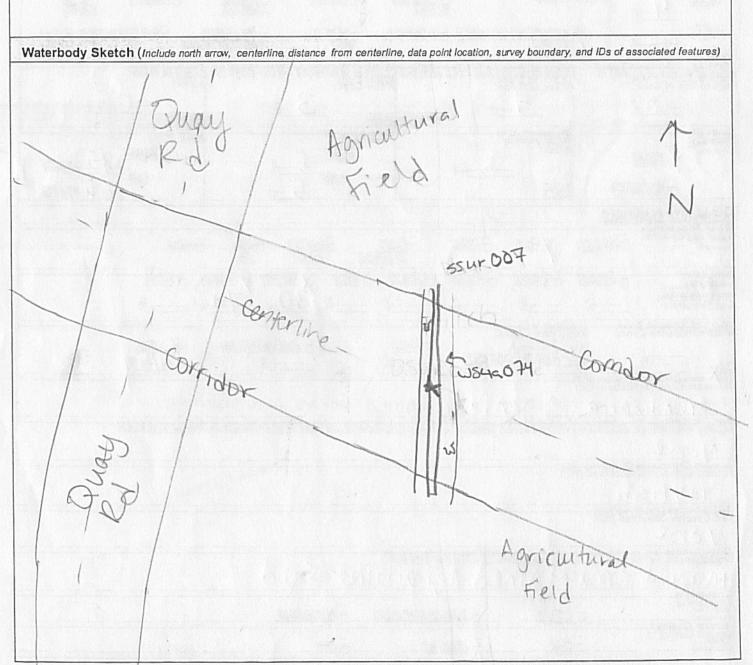
□ Low

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.







Waterbody ssur007 facing southwest upstream.



Waterbody ssur007 facing northeast downstream.



Waterbody ssur007 facing southeast across bank.

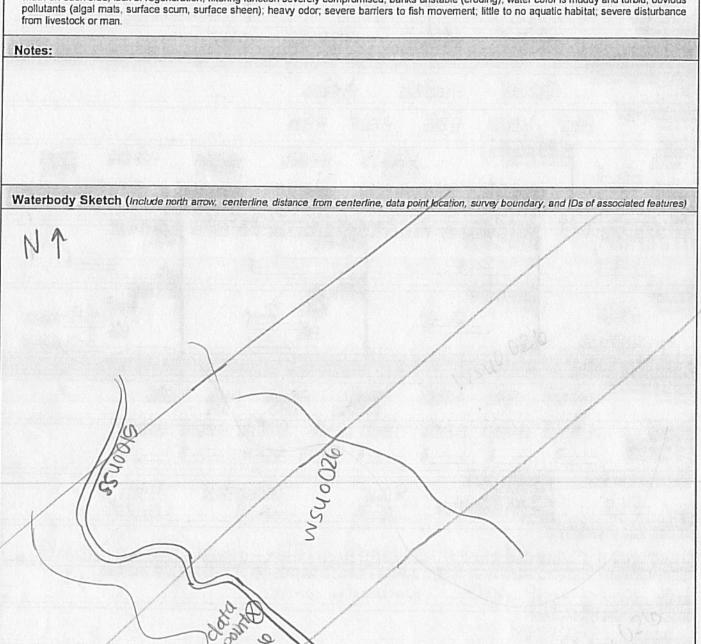
Linear Waterbody Da	ta Sheet		and the second s	
Survey Description			THE SHALL MENTERS A	Date:
Project Name:	Waterbody		Waterbody ID: SSUO 015	- Date:
ACP	HNT	to GyaKER Subm	N	
State: Count	y/Parish: Uffolk	Company: EST	Crew Member Initials:	S, N, E
Tract Number(s): 26 - 060 - 1	4003	Nearest Milepost:	Associated Wetland	
Survey Type:		/ Re-Route □Access Roa		
	- Gerhermie			
Physical Attributes Stream Classification: (check one)	☐Ephemeral □	Intermittent Derennial		
Waterbody Type: (check one) □River	Stream	Ditch	er:	
	WM Indicator: ck all that apply)	Clear line	ing □Wrested vegetation	□Scouring □Water staining
Height: 2 ft.	☐Bent, matted, or m vegetation .	issing Wrack line	and □Abrupt plant community change	☐Soil characteristic change
N/ACI Width of Waterbody - Top of Bank to Top of Bank: ft.	Width of Waterboot to Toe of Slope:	dy - Toe of Slope Width of Water Water Edge:	body - Water Edge to   Depti (Approx ft.   N/A	
Sinuosity: (check one)  UStraight	Water velocity: (Approx.) 2 N/A□	Bank height Right:fps Left:	2 ft. 1. 5 ft.	Right: 45 degrees Left: 30 degrees
Qualitative Attributes  Water Appearance: (check one)	ock 🗆 Boulder 🗆		surface	er: Other:
Width of Riparian Zone:  50 ft.	Vegetative Layers: (check all that apply) Avg. DBH of Domina (approx.)	nts: Trees:	Saplings/Shrubs:	Herbs
Aquatic Habitats (ex: submerge	ed or emerged aquatic veg ed F Packs	etation, overhanging banks/roots, leaf p		undinangea s, deep pools): gigantea
T&E Species Observed (list):				
Disturbances (ex: livestock acc	ess, manure in waterbody,	waste discharge pipes):		
Tributary is: (check one)	Natural	☐ Artificial, man-made ☐ Man	ipulated	
Stream Quality *:		Moderate □ Low		

Waterbody ID: 5540 O

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





Waterbody data point ssuo015 facing south upstream.



Waterbody data point ssuo015 facing north downstream.



Waterbody data point ssuo015 facing east across bank.

Linear Waterbody	Data Sheet						
Survey Description					hWatashadu ID:	l l	ate:
Project Name:		Waterbody Na	1 3		Waterbody ID: 55 N D D I		1/13/16
ALP		UNT	to Quaker	Swamp		CATTAIN OF SECURIOR SECTION 10	1110110
State: C	ounty/Parish:		Company:	(	Crew Member Initials	: Photos:	Facing
VA	Suffolk		ESI		LR, SI	N151	E
Tract Number(s):			Nearest Milepost:		Associated W		
	0-A004	1	50.3	5	W50	10024	Aug William
Survey Type: (check one)	□Centerline	DiRe-I	Route □A	ccess Road	□Other:		
Physical Attributes							
Stream Classification:	□Ephemera	l □Inter	mittent XP	erennial			
Waterbody Type: (check one) □R	iver Stre	eam 🗆 Dito	ch 🗆 Canal	☐ Other:			
OHWM Width: 2_ft.	OHWM Indicat (check all that apply		☐ Clear line on bank	□Shelving	□Wrested vegetation	□Scouring	□Water staining
Height: 0,5 ft.	vegetatio			□Litter and debris	community ch	nange	aracteristic change
Width of Waterbody - Top Bank to Top of Bank: ft.	of Width of to Toe	of Waterbody - of Slope:	Toe of Slope Width Water N/A□	of Waterbo	dy - Water Edge to	Depth of Water: (Approx.)  D/A	<u>.5</u> t.
Sinuosity: (check one) □Straight Meandering	Water (Approx.)	velocity:	Bank	height Right: Left:	,  п.  п.	Bank slope Right: Left:	80 degrees
Qualitative Attribute	s						
Water Appearance:		Clear □Turb	oid □Sheen on surfac	e Surf		□Other:	
Substrate:  (check all that apply) % of Substrate:	Bedrock □ Bo %	ulder 🗆 Cobb %		- The state of the	Silt/ clay	C Other:	
Width of Riparian Zone:	(approx.)	apply) of Dominants:	风Trees: in.		Saplings/Shrubs:	Herbs NA_in.	
Dominant Bank Vegetation	on (list):	oifera,	Arundina	uria g	igantea,	Ilex ,	opala
Aquatic Habitats (ex: subr					s, large submerged wood	d, riffles, deep pools	):
Aquatic Organisms Obse					1		
T&E Species Observed (							
Disturbances (ex: livestoci	access, manure i	n waterbody, wast	e discharge pipes):				
none obs	erved						
Tributary is: (check one)		□ Aı	rtificial, man-made	☐ Manipu	lated		
Stream Quality *: (check one)	□ High	ь́м	oderate	□ Low			n diene andere de la composition de

Waterbody ID: SSM0 014

\* 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 data point ssuo014 facing north upstream.



Waterbody data point ssuo014 facing south downstream.



Waterbody data point ssuo014 facing east across bank.

Linear Waterbody Data Sho	eet			
Survey Description				B
Project Name:	Waterbody Name:		Waterbody ID:	Date:
ACP	UNT to a	HAKER SWAMP	SSUP036	1/8/16
State: County/Parish	: Company	r: ICro	ew Member Initials: Phot	
VA Suft		-		), E, S
Tract Number(s): 26-060-A014	Nearest N	Milepost:	Associated Wetland ID(s	):
A THE PARTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PARTY.		)4.1	waposi	THE PARTY OF THE P
Survey Type: (check one)	line MRe-Route	□Access Road	□Other:	A CONTRACTOR OF THE CONTRACTOR
Physical Attributes				
Stream Classification: (check one)	neral Intermittent	□Perennial		
Waterbody Type: (check one) □River □	Stream Ditch	Canal Other:		
OHWM Ind (check all that the			□Wrested □Sco vegetation	uring Water staining
Height: <u>O, 8</u> ft. □Ber veget	nt, matted, or missing □Wrac ation	ck line	□Abrupt plant  □5 community change	oil characteristic change
Width of Waterbody - Top of Wid	th of Waterbody - Toe of Slo	pe Width of Waterbody	/ - Water Edge to Depth of W	ater:
	oe of Slope:	Water Edge:	(Αρριοχ.)	0.6 ft.
_6_ft.	ft.	7	ft. N/A□	ft.
100	har valasibu	N/A□ Bank height	Bank slope	
(check one) + (App	ter velocity: rox.)	Pight: /	R	ight: 😕
⊒Straight	O fps	- 0	ft.	degrees
□Meandering N/A		Left: 6	ft.	Left: 80 degrees
Qualitative Attributes				
Water Appearance: (check one) □No water	□Clear ⊡Turbid 🖸	Sheen Surface scum	ce □Algal □Other: mats	
Substrate:   Bedrock	Boulder □ Cobble □ G	ravel Sand OF	Silt/ clay Porganic Othe	r.
(check all that apply) % of Substrate:%	%%	<u>% 10 % 7</u>	0% 20%	%
Width of Riparian Zone: Vegeta	tive Layers:			
(check al	that apply)	rees:	Saplings/Shrubs: Her	bs
	BH of Dominants: 6	in2	<u>inN H</u>	in.
N/A (approx.)  Dominant Bank Vegetation (list):  Pinus taeda, Lon		Physical	sutus / in il ab	es etucaiflus
Finus Taeda, Lon	icera japonica	, , , , , , , , , , ,	de la	noole):
Aquatic Habitats (ex: submerged or emo	erged aquatic vegetation, overhang	ging banks/roots, leaf packs,	large submerged wood, nines, deep	pouls).
Aquatic Organisms Observed (list):				
None				
T&E Species Observed (list):				
Disturbances (ex: livestock access, man	ure in waterbody, waste discharge	pipes):		Yellow and the second
Agriculture run o				
Tributary is:		n-made 🗆 Manipula	ted	
Stream Quality *:		~		
(check one)	☐ Moderate	<b>☑</b> Low		The party of property of the party of the

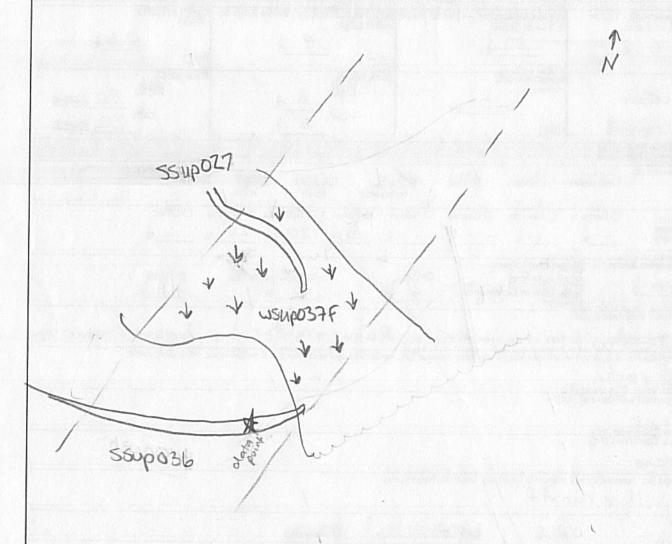
Wat	erbody	ID		
0	550	M	0	31

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 ssup036 facing west upstream.



Waterbody ssup036 facing east downstream.



Waterbody ssup036 facing south across bank.

Linear Waterbody D	Data Sheet				
Survey Description					ID-4
Project Name:	V	/aterbody Name:		Waterbody ID:	Date: 1/8//6
ACP		UNTTO	waker Swamp	554P027	1/8/16
State: Co	unty/Parish:	Compa		rew Member Initials: P	hotos:
VA	5 uffo		=5I	MKS, NWM	N, S, NE
Tract Number(s):		Neares	st Milepost:	Associated Wetland I	
26-060-A	015		52.	marb 03-	图 据 法自当的基本
Survey Type: (check one)	□Centerline	☑Re-Route	□Access Road	□Other:	
Physical Attributes					
Stream Classification: (check one)	□Ephemeral	□Intermittent	#Perennial	TALE.A	too travely
Waterbody Type: (check one) □Riv	er Distrea	m 🗆 Ditch	☐ Canal ☐ Other:		AND TO SECULO SECU
	OHWM Indicato (check all that apply)		lear line ☐Shelving ank	□Wrested	Scouring EWater staining
Height: O.5 ft.	vegetation	tted, or missing 🖼 🕏	debris	community change	□Soil characteristic change
Width of Waterbody - Top	of Width of	Waterbody - Toe of	Slope Width of Waterboo Water Edge:	dy - Water Edge to Depth (Approx.)	of Water:
Bank to Top of Bank:	to Toe of	Slope:			0.5 ft.
<u>₹</u> ft.	_	ft.	_6	ft. N/A□	п.
Clausaltus	Water ve	locity	N/A□ Bank height	Bank s	ope
Sinuosity: (check one)	(Approx.)	ocity.	Right:		Right: /O
□Straight			1	ft.	degrees
Meandering	N/A□		Left: 1	- ft.	Left: /O degrees
Efficiency	N/AL	t and the state of			
Qualitative Attributes					
Water Appearance: (check one) □No	water Defe	ar □Turbid	□Sheen □Surfa on surface scur	등록 '' 전하는 경기 :	
Substrate:   Be	edrock 🗆 Boul	der □ Cobble □	Gravel 🖽 Sand 🖫	Silt/ clay Porganic CO	ther:
(check all that apply) % of Substrate:		%%	<u> </u>		%
Width of Riparian Zone:	Vegetative I	ayers:			
200 ft.	(check all that ap	ply)		Saplings/Shrubs:	Herbs In.
N/A□ Dominant Bank Vegetation	(approx.)				
Arundinaria s	igante	a, Acerru	brum, Smila	x rot undifol	ia
Aquatic Habitats (ex: subme	erged or emerged a	quatic vegetation, overh	anging banks/roots, leaf packs	s, large submerged wood, riffles, o	deep pools):
leaf pack	Action to the second second	, debrise			
Aquatic Organisms Obser	ved (list):	N.		X	
T&E Species Observed (lis	st):			A	
Disturbances (ex: livestock a	access, manure in	waterbody, waste discha	rge pipes):		
Tributary is:	☑ Natural	☐ Artificial, r	man-made ☐ Manipul	ated	
Stream Quality *:		/			
(check one)	☐ High	Moderate	□ Low	tan ay salar serina iyo oo Aribi biraal	

Waterbody ID: SSup 027

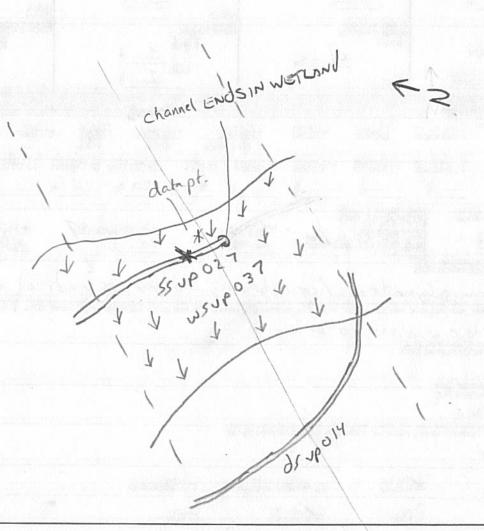
High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance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

Very poorly defined bed and bank





Waterbody data point ssup027 facing north upstream.



Waterbody data point ssup027 facing south downstream.



Waterbody data point ssup027 facing northeast across bank.

Linear Waterbody L	Data Sneet							Garage and Section 1997
Survey Description					541	- L - J - (D)		Date:
Project Name:	W	aterbody Nar	ne:		198	terbody ID:		A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PARTY
ACP		UNT	to Qua	KER Subn	Pref.	SSUP03	h	1/8/16
State: Co	unty/Parish:		Company:		Lossicolocidadal datales	ember Initials:	Photos	ISE, S
VA .	suffol	K	ES	I.		, NWM	THE RESIDENCE THE PERSON NAMED IN	17. 53
Tract Number(s):			Nearest Mile		^	Associated We		
26-060 - A	016			52,2		Menson	021	
Survey Type: (check one)	□Centerline	DRe-F	Route	□Access Road		Other:		
Physical Attributes								
Stream Classification: (check one)	□Ephemeral	₽mter	mittent	□Perennial				
Waterbody Type: (check one) □Riv	er 🗆 Stream	n 🖾 Dito	h □ Ca	nal   Other				
	OHWM Indicator (check all that apply)		© Clear line on bank	e □Shelvin	3	□Wrested vegetation	Scouring	ng □Water staining
Height: 0.5 ft.	□Bent, mat vegetation	ted, or missing	g □Wrack lin	e Litter ar debris		☐Abrupt plant community cha		characteristic change
Width of Waterbody - Top	of Width of V	Vaterbody -	Toe of Slope	Width of Waterb	ody - Wa		Depth of Wate	er:
Bank to Top of Bank:	to Toe of			Water Edge:	-			0,5 ft.
	_4	1.5 ft.		The second secon	.5_ft.		√A□ -	<u></u> п.
Sinuosity:	Water vel	ocity:		N/A□ Bank height		Men Little Calcada	Bank slope	
(check one)	(Approx.)	ocity.		Right:	,,		Righ	
Luotraignt		fr	os	Left:	7_ft.		Le	ft: 00 degrees
□Meandering	N/A□				<u>4</u> n.			80 degrees
Qualitative Attributes								
Water Appearance:							1011	
(check one)	water □Clea	ar ⊠furb		surface sci	um	mats	Other:	
	edrock   Bould	er 🗆 Cobb	le 🗆 Grave	Sand I	Silt/ cla	y P Organic	☐ Other:	
(check all that apply) % of Substrate:	_%9	6	%	% 10%	80 %	10 %	%	
Mildsh of Disories Zener	Vegetative L	avore:	100					
Width of Riparian Zone:	(check all that app		□ Trees:		Sapling	s/Shrubs:	Herbs	
10 ft.	Avg. DBH of	Dominants:		in.	2		NA	n.
N/A□ Dominant Bank Vegetation	(approx.)							
Lonicerajapa	onica, L	igust.	rum sin	ense, Sa	lix r	nigra		
Aquatic Habitats (ex: subme		quatic vegetation	n, overhanging b	panks/roots, leaf pac	ks, large s	ubmerged wood,	riffles, deep po	ols):
leaf pa					7.1		, N / C	
Aquatic Organisms Obser								
T&E Species Observed (lis			Ack					4
Disturbances (ex: livestock a	access, manure in w	aterbody, waste	e discharge pipe	s):				
Tributary is: (check one)	□ Natural	,	tificial, man-ma	ade □ Manip	ulated			
Stream Quality *:				/				
(check one)	☐ High	□ Mc	derate	CLow	200		dentification was	

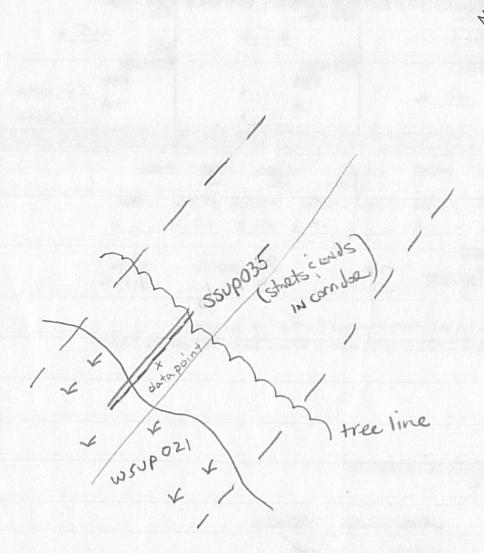
Waterbody	ID:
SSUD	035

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 ssup035 facing northwest upstream.



Waterbody ssup035 facing southeast downstream.



Waterbody ssup035 facing south across bank.

Linear Waterbody	y Data Sheet							
Survey Description	1							lD-t
Project Name:		Waterbody Na	ne:		M	Vaterbody ID:		Date:
ACP		UNTT	o Quak	ER SUBMY	0	550003	72	12/8/15
State:	County/Parish:		Company:		Lander Children	Member Initials:	Photos:	Facing
VA	SUFFOI	K	EST-	1	MK	SIKSM	SN	1W
Tract Number(s):	11544 1214 1214 121		Nearest Mile	post:		Associated Wetla	and ID(s):	COMMUNICATION OF
26-060-AC	016			NA		WSUB	Ø24	
Survey Type: (check one)	□Centerline	ĎRe-F	Route	□Access Road		□Other:		
Physical Attributes								
Stream Classification: (check one)	□Ephemera	ıl Minter	mittent	□Perennial				
Waterbody Type: (check one)	River □ Str	eam the Ditto	ch □ Ca	nal   Other				
OHWM Width:ft.	OHWM Indica (check all that apply		© Clear line on bank	e □Shelvin	g	□Wrested vegetation	□Scourin	g DVVater staining
Height:ft.	□Bent, n vegetatio	natted, or missin n	g □Wrack lin	e □Litter ar debris	nd	□Abrupt plant community change		characteristic change
Width of Waterbody - T	op of Width	of Waterbody -	Toe of Slope	Width of Waterb	ody - W		pth of Wate	ır
Bank to Top of Bank:	to Toe	of Slope:		Water Edge:		(Ap)	prox.)	. 5 ft
ft.	-	ft.		N/A□ —		ft. N/A	-	<u>•                                    </u>
Sinuosity:	Water	velocity:	Property and an artist of the second	Bank height		Ва	nk slope	
(check one) Straight	(Approx.)	0		Right:	1		Righ	t: 45 degrees
		f	os	Left:	1	_ft.	Le	
□Meanderin	ng N/A□				l.	ft.		degrees
Qualitative Attribut	tes							
Water Appearance:		Zana Direct	oid □She	ов Пен	rface	□Algal □C	Other:	
(check one)	No water 🖽	Clear □Turb	And the second s	And the state of the state of the state of	um	mats	Arier.	
Substrate:	Bedrock □ Bo	ulder 🗆 Cobb	ole □ Grave	Sand I	Silt/	clay   Organic	☐ Other:	
(check all that apply)					80		%	
% of Substrate:	%	_%	%	%%		7070		
Width of Riparian Zone			/		/		Herbs	
50 ft.	(check all that	of Dominants:	Trees:		Sapli	ings/Shrubs: in.	NA_i	
N/A□	(approx.)	Or Bollimants.		in	rhe la chia		district contracts	
Dominant Bank Vegeta		Dinus	taeda	Movelle		rescus		`
Aquatic Habitats (ex: su	hmerned or emerne	d aquatic vegetation	n overhanging b	panks/roots, leaf pag	cks. large	e submerged wood, rif	fles, deep poo	ols):
Submerged			i, overnanging .					
Aquatic Organisms Ob	served (list):							
non-e								
T&E Species Observed	(list):							
none								
Disturbances (ex: livesto	ock access, manure	in waterbody, wast	e discharge pipe	s):				
mon mad								
Tributary is:	□ Natural		tificial, man-ma	ade □ Manip	oulated			
Stream Quality *:		The Million						
(check one)	☐ High	□ M	oderate	□ Low				

Waterbody ID:

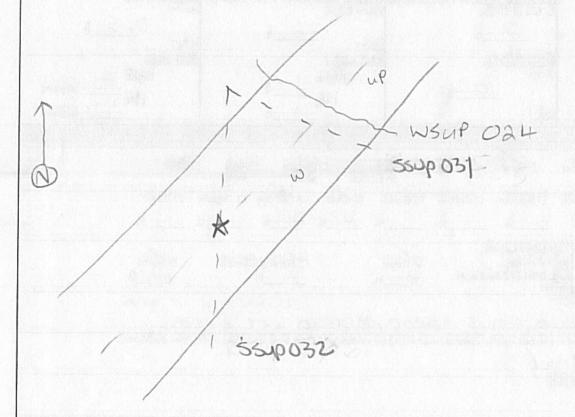
SSUP 032

\* 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 data point ssup032 facing south upstream.



Waterbody data point ssup032 facing north downstream.

Photo Sheet 1 of 2



Waterbody data point ssup032 facing west across bank.

Linear Waterbody	Data Sheet						CD 0-000 A 000	
Survey Description					haz	aterbody ID:		Date:
Project Name:		Waterbody Na					r .	12/8/15
ACP		Unt to	Quaker	2 SWAMP		\$sup 03/		
TO A SHOULD SEE THE SECRETARY SEE SHOULD SEE SHOULD SEE SEE SHOULD SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	ounty/Parish:		Company:		Crew M	lember Initials:		facing
VA	SUFFO	1K	ESI		MK	SIKSM	SE,	NW, SW
Tract Number(s):			Nearest Milep			Associated Wetlan		
26-060-A01	6,26-0	60-AUT		NA		WSUP	024	an ac Sandyale
Survey Type: (check one)	Centerline	/	Route	□Access Road		□Other:		
Physical Attributes						1 to the state of the state of the	e intalle cores	
Stream Classification:	□Ephemera	ıl ⊡fnter	mittent	□Perennial				
Waterbody Type: (check one) □R	liver   Str	eam 🖭 Dito	ch 🗆 Car	nal 🗆 Other	:			
OHWM Width: 3 ft.	OHWM Indicat (check all that apply		Clear line on bank	□Shelvin	g	□Wrested vegetation	□Scourin	g Water staining
Height:5_ft.	□Bent, n vegetatio	natted, or missin n	g □Wrack line	e □Litter ar debris	nd	□Abrupt plant community change		characteristic change
Width of Waterbody - To Bank to Top of Bank:	p of Width of to Toe	of Waterbody - of Slope:		Width of Waterb Water Edge: ————————————————————————————————————	ody-Wa	(Appro	D	• 5 ft.
Sinuosity: (check one)  ☐Straight ☐Meandering	(Approx.)	velocity:	DS	Bank height Right: Left:	n		k slope Righ Le	45 degrees
Qualitative Attribute	es							
Water Appearance: (check one)	lo water 🔯 🗘	Clear □Turb		CONTRACTOR OF THE PARTY OF THE	rface um	□Algal □Oth mats	her:	
Substrate:   (check all that apply)  % of Substrate:	Bedrock 🗆 Bo	ulder 🗆 Cobb		#Sand	90 %		Other:	
Width of Riparian Zone: <u>50 ft</u> . N/A□	Vegetative (check all that Avg. DBH (approx.)	A CONTRACT OF THE PARTY OF THE	Irees:	n. <sub>-</sub>	2	in.	Herbs	
Dominant Bank Vegetati	on (list):					styraci	8140	7
TIEX OPOCO Aquatic Habitats (ex: sub	1, Arundi	navia 9	gon+ea	anks/mots leaf par	ks lame	submerged wood riffle	es, deep poo	ols):
LEAF PACK		aquate vegetate	ii, overnanging b	arikarioota, icai pac	ako, rango			
Aquatic Organisms Obse	erved (list):							
T&E Species Observed (	list):							
none								
Disturbances (ex: livestoc			e discharge pipes	):				
men mad	e dite	14						
Tributary is: (check one)	□ Natural	/	tificial, man-ma	de 🗆 Manip	oulated			
Stream Quality *:			/					
(check one)	☐ High	L-M	oderate	□ Low	Mary Mary Control		THE TANK OF THE PARTY OF	

Waterbody ID:

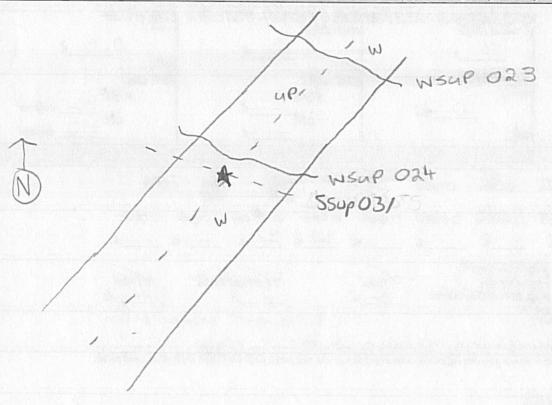
55UD 031

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.

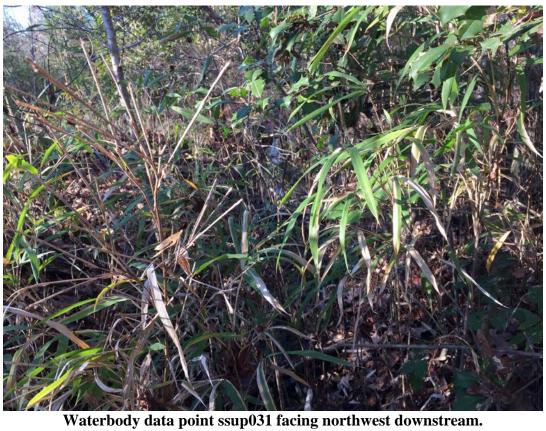
Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious 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 data point ssup031 facing southeast upstream.





Waterbody data point ssup031 facing southwest across bank.

Linear Waterbody	Data Sheet		ACCUPATION OF THE PROPERTY OF	THE PROPERTY OF STREET		STATE OF STATE OF STATE
Survey Description				Waterbody ID:	54.0766.097.3	Date:
Project Name:	Waterbody	1 =		SSWODZ4		2/9/16
ACP	477	to Speichts	Ryn			Control of the Contro
State: Co	ounty/Parish:	Company:		Crew Member Initials	: Photos	Facing
VA	Suffolk	ESI		LR, MS	5,	N, E
Tract Number(s):	-A022	Nearest Milepos		Associated W	retland ID(s):	
	110 22					
Survey Type: (check one)	□ Centerline Ø	Re-Route [	Access Road	□Other:	NO SOME PRESIDENT AND RESIDENT	
Physical Attributes						
Stream Classification: (check one)	□Ephemeral	(Intermittent E	Perennial			
Waterbody Type: (check one) □Ri	ver □ Stream ፲	f-Ditch ☐ Canal	☐ Other:			
OHWM Width: 3 ft.	OHWM Indicator: (check all that apply)	☐ Clear line on bank	□Shelving	g □Wrested vegetation	□Scouri	ng □Water staining
Height: 0.5 ft.	DBent, matted, or m vegetation	issing	□Litter an debris	d	nange	characteristic change
Width of Waterbody - Top	of Width of Waterbo	dy - Toe of Slope Wi	th of Waterbo	ody - Water Edge to	Depth of Wate (Approx.)	er:
Bank to Top of Bank:	to Toe of Slope:	Wa	ter Edge:	2	(Approx.)	05#
<u>4</u> n.			_	<u>ft.</u>	N/A□	п.
		N/A	nk height		Bank slope	A STATE OF THE STA
Sinuosity: check one)	Water velocity: (Approx.)	Da	Right:		Righ	
Straight	0	fps		ft.	Le	degrees
□Meandering	N/A□	Marine Commence	Left:	l ft.		80 degrees
	MODERN STREET,	STATE OF THE PARTY		TACCO TOTAL TOTAL STATE	<b>2000年</b>	
Qualitative Attribute	S					
Water Appearance: (check one)	water Clear C	Turbid □Sheen on sur		Parties and CD St. child the application of the CD St.	□Other:	
Substrate:   B	edrock 🗆 Boulder 🗆	Cobble   Gravel	Sand I	Silt/ clay Organi	c Other:	
(check all that apply) % of Substrate:	% %	% %	60 %	40%	%%	
				THE REPORT OF THE		
Width of Riparian Zone:	Vegetative Layers:	Ж Trees:	1	Saplings/Shrubs:	Herbs	
40 tt.	(check all that apply) Avg. DBH of Domlina		,	2 in.	NA	in.
WAU	(approx.)	The Transfer of the Comments of the			TANK DA MEDIATIONS	
Dominant Bank Vegetation	on (list):	D. NUL +AR	da			
Hrundinario	a gigantee.	T TITUS TOLE				
Aquatic Habitats (ex: subn	nerged or emerged aquatic veg	etation, overhanging ban	ks/roots, leaf pac	ks, large submerged woo	d, riffles, deep po	ools):
leaf packs						200 (100 (100 (100 (100 (100 (100 (100 (
Aquatic Organisms Obse	rved (list):					
none ob	served					
T&E Species Observed (I	ist): Oserved					1 (4) 1 (4) (4) (7) (4) (4) (7)
Disturbances (ex: livestock		waste discharge pipes):				
ag. field					Curry et al. W	
Tributary is: (check one)	□ Natural	Artificial, man-made	e □ Manip	ulated		(Applied ) open street over
Stream Quality *: (check one)	□ High	Moderate	□ Low			NAMES OF THE PROPERTY OF THE PARTY.
	A DECEMBER OF THE PROPERTY OF	The second secon	The second secon		Control of the Control of the	and the communication of the recovery absolute that the property of the

Waterbody	ID:
5540	024

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)

Deer Path Rd

SSUODZS

Jaya

Point

V

SSUODZS

V

WSUODZ8



Waterbody data point ssuo024 facing south upstream.



Waterbody data point ssuo024 facing north downstream.

Photo Sheet 1 of 2



Waterbody data point ssuo024 facing east across.

Linear Waterbody	Data Sheet			AND AND ENDED	e are announced at a fin			
Survey Description					hatasaha du l	D.	Dat	e:
Project Name:	<b>1</b>	Vaterbody Nam		0	Waterbody		SAME THE PERSON NAMED IN	219116
HCY		4NT to	DEIG	ints ky		The second second second	The state of the s	
State:	County/Parish:		Company:		Crew Member Ini		Photos: F	
VA	Suffolk	,	ESI		LR, ME	5	W, E	15
Tract Number(s):			learest Milepos		Associate	d Wetland		
26-06	0-A02	2/11	53	.9		N	H	
Survey Type: (check one)	□Centerline	Re-Ro	oute [	Access Road	□Other:	F 80 10 F 12 S	enero en s	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Physical Attributes								
Stream Classification: (check one)	□Ephemeral	tintem	ittent [	∃Perennial				
Waterbody Type: (check one)	River   Stre	am 🗡 Ditch	☐ Canal	☐ Other			Sept.	
OHWM Width: 4 ft.	OHWM Indicato (check all that apply)	r:	☐ Clear line on bank	□Shelvin	g □Wreste vegetatio		Scouring	□Water staining
Height: 0.9 ft.	Bent, ma vegetation	atted, or missing	□Wrack line	□Litter ar debris		ity change		acteristic change
Width of Waterbody - To	p of Width of	Waterbody - T	oe of Slope Wi	dth of Waterb	ody - Water Edge	to Depth (Approx	of Water:	
Bank to Top of Bank:	to Toe o	f Slope:	Wa	iter Edge:	,	1.77	1	ft.
<u>5</u> f.	<u> </u>	<u>1ft.</u>			<u> ft.</u>	N/A□	· ·	Service Control
	Water v	locitic	N//	nk height		DESTRUCTION CONTRACTOR	slope	
Sinuosity: check one)	(Approx.)	siocity.		Right	2		Right: -	10
DIStraight					<u></u>		Left:	degrees
□Meandering	N/A□			Left:	2_ft.			45 degrees
	COMPLEX SOURCES AND ADDRESS AN							
Qualitative Attribut	es							
Water Appearance: check one)	No water CI	ear □Turbi	d □Sheer on su	face sci	um mats	□Oth	er;	
Substrate:	Bedrock ☐ Bou	lder 🗆 Cobbl	e □ Gravel	Sand J	Silt clay Or	ganic 🗆	Other:	
(check all that apply) % of Substrate:	%	%9	6%	60 %	40 %	%	%	
Width of Riparlan Zone:	Vegetative	Lavers:						
Zo <sub>ft</sub> .	(check all that a		□ Trees: in.		□ Saplings/Shrubs in.	i: ).	Herbs MA in.	
				ALL OF COMPANY OF THE PARTY.			11- 1-	
Juneus ef	fusus, R	ubus d	irqu tu	s, Per	sicaria	sagi	Mata	<b>\</b>
Aquatic Habitats (ex: sub	omerged or emerged	aquatic vegetation	overhanging ban	ks/roots, leaf pag	cks, large submerged	wood, riffle:	s, deep pools):	
	served							
Aquatic Organisms Obs								
none o	oserved							en e
T&E Species Observed								
	oservec							
Disturbances (ex: livesto			discharge pipes):					
roadside		ld edg	4	ch				
Tributary Is: (check one)	□ Natural	b/Arti	ficial, man-mad	e 🗆 Manip	oulated			
Stream Quality *: (check one)	□ High	₩ Mo	derate	□ Low				
foregree one)	riigii	1410	THE RESERVE AND ADDRESS.	CONTRACTOR STATE OF THE PARTY OF THE	A THE RESERVE THE PROPERTY OF THE PARTY OF T			Country or working and Code and results constitute within a

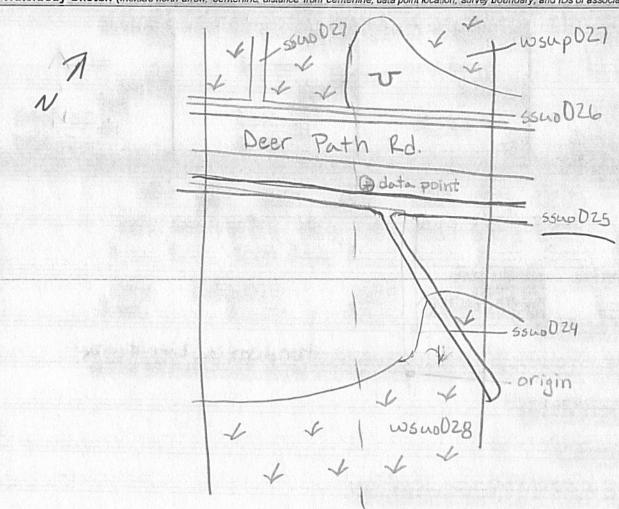
• High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance 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 data point ssuo025 facing west upstream.



Waterbody data point ssuo025 facing east downstream.

Photo Sheet 1 of 2



Waterbody data point ssuo025 facing south across.

Linear Waterbody Data	Sheet		ALM BUSINESS STORY AND TRACES FOR	AND STEEL STREET, STRE
Survey Description		and the second second	Waterbody ID:	Date:
Project Name:	Waterbody Nar	ne:	Waterbody ID.	
HCT	UNTTO	SDERUTE RUN	THE STATE OF THE PROPERTY OF T	
State: County/P	arish:	Company:	Crew Member Initial	s: Photos: Facing
VA SI	, + folk	ESI	LR, MS	E,W,N
Tract Number(s):	711011-	Nearest Milepost:	Associated V	
26-060-Y	1073	54.0	W:	5up027
The state of the s	,000	0 110		
Survey Type:	enterline Re-F	Route □Access R	oad   Other:	
Physical Attributes				
Stream Classification:	ohemeral <b>V</b> Inter	mittent □Perennial		
(check ane)	ohemeral Minter	millent Dreferma		
Waterbody Type: (check one) □River	☐ Stream	h □ Canal □ Ot	her.	
OHWM Width: 3 ft.	Indicator: I that apply)	☐ Clear line ☐ She on bank	lving	□Scouring □Water staining
U1- ft. (	Bent, matted, or missin	g □Wrack line □Litte debris	and the same of the section of the s	
N/A□ Width of Waterbody - Top of	Width of Waterbody -	Toe of Slope Width of Wat	erbody - Water Edge to	Depth of Water:
Bank to Top of Bank:	to Toe of Slope:	Water Edge:		(Approx.)
4 ft.	2 n.		<u>3</u> _ft.	<u>D1 / ft.</u>
A CONTRACTOR OF THE CONTRACTOR		N/A□		N/A □
Sinuosity:	Water velocity: (Approx.)	Bank height		Bank slope Right:
(check one) Straight		Right	2 <sub>ft.</sub>	degrees
		Lef	t: 2 n	Left: 70 degrees
□Meandering	N/A 🗆		1.0 min (Nation & The Sales and Nation & 2010)	A CONTRACTOR OF THE CASE OF TH
Qualitative Attributes				ALCOHOLD CONTRACTOR
Water Appearance:	⊠Clear □Turb	id □Sheen □	Surface □Algal	□Other:
(check one) No water	Acieai Didit	on surface	scum mats	
Substrate:   Bedrock	☐ Boulder ☐ Cobb	ole □ Gravel ☑ Sand	Silt/ clay Organ	ic Other.
(check all that apply)		% % 60 9	6 40 %	%%
% of Substrate:%	%	% <u>"% "60 %</u>		
	getative Layers:			DX Herbs
	eck all that apply)	Trees:	Saplings/Shrubs:	NH in.
	g. DBH of Dominants:	<u>9</u> in.	Anathograph (Special Control of the	The state of the s
m t - A D - A M - a table on (light)	.01 1	1.	· · · · +o·	
Liquidambar st	gracitlua, H	rundinaria s	jiganiea	
Aquatic Habitats (ex: submerged o	r emerged aquatic vegetation	n, overhanging banks/roots, lea	f packs, large submerged wo	od, riffles, deep pools):
leaf packs				
Aquatic Organisms Observed (II				
none obser	ved			en a de la companya d
T&E Species Observed (list):	rved			
Disturbances (ex: livestock access	manura in waterbady week	e discharge pines):		
roadside di		a alamanga pipas/.		
Tributary is:		rtificial, man-made	anipulated	The second of the second
Stream Quality *:	High DYM	oderate 🗆 Lo	W	
(check one)	HIGH LW M	Duciate LI Lt	<ul> <li>A STREET AND STREET ASSESSMENT OF THE STREET, STR</li></ul>	

Waterbody ID:	
55WD	026

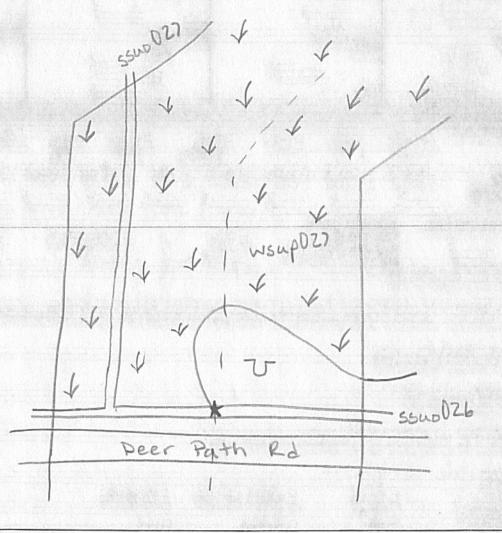
• High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance 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 data point ssuo026 facing east upstream.



Waterbody data point ssuo026 facing west downstream.

Photo Sheet 1 of 2



Waterbody data point ssuo026 facing north across.

Linear Waterbody	y Data Sheet				ELEVERATOR SE ESTRANCE	STATE OF MARKET BARRES
Survey Description				Waterbody ID:	Da	te:
Project Name:		ody Name:		1640	77 1	219111
HCT	40	The second secon	CHTS RUN	Crew Member Initial	s:  Photos: [	71110
State:	County/Parish: Suffolk	Company: ESI		LR, MS	5 5,N	W
Tract Number(s):		Nearest Mile	post:	Associated V	Vetland ID(s):	1
A CANADA CONTRACTOR OF THE PROPERTY OF THE PARTY OF THE P	0-A023	5	3.9	WSU	P027	
Survey Type: check one)	□Centerline	Re-Route	□Access Road	□Other:	NUMBER OF STREET	
Physical Attributes						
Stream Classification:	□Ephemeral	Mintermittent	□Perennial			
Waterbody Type: (check one)	River   Stream	Ditch □ Ca	anal   Other			1.35-0.25%
OHWM	OHWM Indicator: (check all that apply)	☐ Clear lin	e □Shelvin	g	□Scouring	□Water staining
Height:ft.	Bent, matted, or vegetation	missing Wrack li	ne □Litter au debris	nd	change	racteristic change
Width of Waterbody - T	op of Width of Water	body - Toe of Slope	Width of Waterb	ody - Water Edge to	Depth of Water:	
Bank to Top of Bank:	to Toe of Slope		Water Edge:	١.	1	) ft.
ft.	3	ft.	N/A□ —	π.	N/A□	
Sinuosity:	Water velocity:		Bank height		Bank slope	
(check one)	(Арргох.)	fps	Right:	1,5 t.	Right: *	/O degrees
□Meanderin		ips	Left:	15 1	Left:	7D degrees
Liweanden	ng N/A□		SICKETE SEVEN TORESTO			
Qualitative Attribu	tes	SHEET OF SHEET				
Water Appearance: (check one)	No water Sclear	□Turbid □Sh	surface sc	rface □Algal um mats	□Other:	
	Bedrock □ Boulder	☐ Cobble ☐ Grave	el Sand	Silt/ clay   Organ	ic Other:	
(check all that apply) % of Substrate:	%% _	%	% 60%	40 %	%%	
Width of Riparian Zone	: Vegetative Layers					
NAD 100 ft.	(check all that apply)  Avg. DBH of Doml (approx.)	nants:	i: ) _in	Saplings/Shrubs:	Herbs NA_in.	
Dominant Bank Vegeta			L	11-6-12-1	Tanidamb	ac
Arundinari	tion (list): a gigan tea	a, Smila	x rotun	ditolia, L	- Bordaring	Fyraciflua
Aquatic Habitats (ex: su	ibmerged or emerged aquatic	vegetation, overhanging	banks/roots, leaf page	cks, large submerged wo	od, riffles, deep pools)	,
leaf Da	cks					
Aquatic Organisms Ob	served (list):		1877			
none o	bserved					No. of the control of
T&E Species Observed	British British (1996) British British (1996) British (1996) British (1996)			1000 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -		
none	observed					
Disturbances (ex: livest	ock access, manure in waterbo	dy, waste discharge pip	es):		+	
none	observed					
Tributary Is:	□ Natural	Artificial, man-n	nade 🗆 Manip	oulated		
Stream Quality ::		Moderate				
Makaali aaal	Llich	I.A. Moderate	□ Low			CHARLES AND ASSESSMENT OF THE PROPERTY OF THE

Waterbody ID:	
	172-
95UD	061

\* 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) 5540027 55400Zb Deer



Waterbody data point ssuo027 facing south upstream.



Waterbody data point ssuo027 facing north downstream.

Photo Sheet 1 of 2



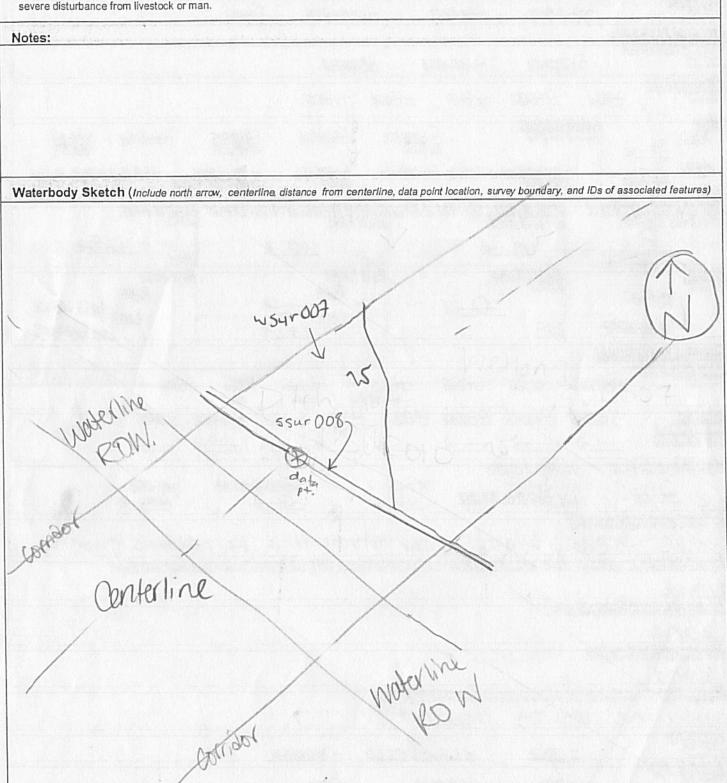
Waterbody data point ssuo027 facing west across.

Linear waterboo	y Data Snee						
Survey Description	1						
Project Name:		Waterbody Na	me:		Waterbody ID:	100	Date:
HP		Untte	Cohoon C	The second secon	ssur	108	20 Jan 2016
State:	County/Parish:		Company:		Crew Member Initia	s: Photos	LIT
AV	Suffoll	_	ES1		CAJ CSM	DE	,W,NE
Tract Number(s):			Nearest Milepost		Sign Clare City   distriction (districted	Wetland ID(s):	LANGE OF SELECTION
26-660-	A026	)	54.6		Wsu	007	
Survey Type: (check one)	Centerline		Route 🗆	Access Road	□Other:		
Physical Attributes Stream Classification:	3						
(check one)	□Ephemera	ıl □Inter	rmittent 🛱	Eerennial			
Waterbody Type:	River   Str	eam Dito	ch 🗆 Canal	☐ Other:			
OHWM Width:ft.	OHWM Indicat (check all that appl)		☐ Clear line on bank	□Shelving	g □Wrested vegetation	□Scouri	ng Kwater staining
Height: 0,5 ft.	□Bent, n vegetatio		ig □Wrack line	□ Litter an debris	d		characteristic change
Width of Waterbody - T			Toe of Slope Wide	th of Waterbo	ody - Water Edge to	Depth of Wat	er:
Bank to Top of Bank:	to Toe	of Slope:	Wat	er Edge:	1-	(Approx.)	56
	_	ft.		(	<u>O_</u> ft.	N/A□	0.5 ft.
Sinuosity:	Water	velocity:	N/AI Ban	k height		Bank slope	
(check one)	(Approx.)		Ball	Right:		Rigi	nt: /
Straight		_0_	ps		ft.		<u>(00</u> degrees
□Meanderin	g N/A□			Left:	ft.	Le	eft: 60 degrees
Qualitative Attribu	tes						
Water Appearance:							
(check one)	No water	Çlear □Turl	oid □Sheen on surf	ace sct	the real control of the second	□Other:	
And the second s	Bedrock 🗆 Bo	oulder 🗆 Cob	ble   Gravel	□ Sand [	☐ Silt/ clay Organ		
(check all that apply) % of Substrate:	%	%	% %	%	% 100	%%	
Width of Diseases 2							
Width of Riparian Zone	: Vegetative (check all that		▼ Trees:	Г	Saplings/Shrubs:	Herbs	
∠Uft.	Avg. DBH	of Dominants:	/D in.		in.	NIA	jn.
N/A□ Dominant Bank Vegeta	(approx.)						
1	eda, L	-iquida	mbar 5	tyracif	flua, Arur	Idinaria	gigantea
Aquatic Habitats (ex: su	bmerged or emerge	d aquatic vegetation	on, overhanging bank	s/roots, leaf pac	ks, large submerged wo	ood, riffles, deep po	ools):
None							
Aquatic Organisms Ob	served (list):						
None							
T&E Species Observed							
Disturbances (ex: livesti			te discharge pipes):				
Tributary is:							
(check one)	□ Natural	XA	rtificial, man-made	☐ Manip	oulated		
Stream Quality :: (check one)	D	4.	Andorsta	D1			
(check dive)	. 🗆 High	- Jan	Moderate	□ Low		DESCRIPTION OF STREET	

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.





Waterbody ssur008 facing southeast upstream.



Waterbody ssur008 facing west downstream.



Waterbody ssur008 facing northeast across bank.

**Linear Waterbody Data Sheet** Survey Description Waterbody Name: Project Name: Waterbody ID: Date: 5540118 ACP State: County/Parish: Crew Member Initials: Photos: Facing RT, LR Suffolk EST NW, SE, NE Tract Number(s): Nearest Milepost: Associated Wetland ID(s): 26-060-A029 W5400 45 Survey Type: Centerline (check one) □Re-Route ☐Access Road □Other: Physical Attributes Stream Classification: (check one) □ Ephemeral □Intermittent Perennial Waterbody Type: (check one) ☐ Ditch □River D Stream ☐ Canal Other: OHWM **OHWM Indicator:** Width: (check all that apply) ☐ Clear line □ Shelving □Wrested □Water □ Scouring on bank vegetation staining Height: □Bent, matted, or missing □Wrack line ☐Litter and ☐ Abrupt plant ☐ Soil characteristic change vegetation debris community change N/A Width of Waterbody - Top of Width of Waterbody - Toe of Slope Width of Waterbody - Water Edge to Depth of Water: Bank to Top of Bank: to Toe of Slope: Water Edge: ft N/A 🗆 N/A 🗆 Sinuosity: Water velocity: Bank height Bank slope (check one) (Approx.) Right: □Straight degrees Left: Meandering N/A degrees **Qualitative Attributes** Water Appearance: Clear □No water (check one) □Turbid □Sheen □ Surface □Algal □Other: on surface scum mats Substrate: ☐ Bedrock ☐ Boulder ☐ Cobble ☐ Gravel ☑ Sand ☐ Silt/ clay ☐ Organic ☐ Other: (check all that apply) % of Substrate: 100% % % Width of Riparian Zone: Vegetative Layers: Trees: (check all that apply) Saplings/Shrubs: ☑ Herbs Avg. DBH of Dominants: NA-in. N/A Dominant Bank Vegetation (list): Ilex opaca, Liquidambar Styraciflua, Arundinaria gigantea Aquatic Habitats (ex: submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): roots, leaf submerged logs, overhanging Aquatic Organisms Observed (list): none T&E Species Observed (list): Disturbances (ex: livestock access, manure in waterbody, waste discharge pipes): none Tributary is: (check one) Natural ☐ Artificial, man-made ☐ Manipulated Stream Quality a: ☐ High (check one) Moderate

☐ Low

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.

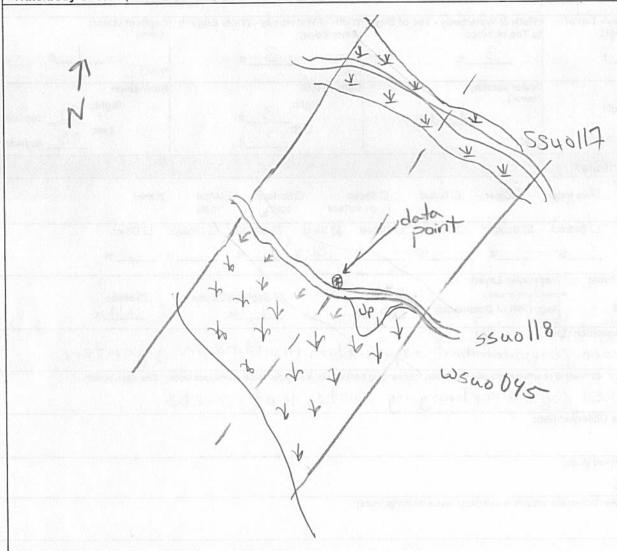
Moderate Quality: Altered by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or bank vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers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

(Hurricane Matthew) Heavy rain within 72hrs. [approx. 11"]

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



Environmental Field Surveys Waterbody Photo Page



Waterbody data point ssuo118 facing northwest upstream.



Waterbody data point ssuo118 facing southeast downstream.



Waterbody data point ssuo118 facing northeast across bank.

**Linear Waterbody Data Sheet** Survey Description Waterbody Name: Project Name: Waterbody ID: Date: ACP 10/11/16 55 WO 117 State: County/Parish: Crew Member Initials: Photos: Suffolk RT, LR EST Tract Number(s): Associated Wetland ID(s): Nearest Milepost: 26-060-A029 WSUDL Survey Type: (check one) **∠**Centerline ☐Re-Route Other: ☐Access Road Physical Attributes Stream Classification: (check one) □ Ephemeral □Intermittent Perennial Waterbody Type: (check one) □River ✓ Stream □ Ditch ☐ Canal ☐ Other: OHWM OHWM Indicator: (check all that apply) Clear line □Water Width: □ Shelving □Wrested □ Scouring on bank vegetation staining ft. Height: Bent, matted, or missing Wrack line Litter and ☐Abrupt plant ☐Soil characteristic change vegetation community change debris N/A 🗆 Depth of Water: Width of Waterbody - Top of Width of Waterbody - Toe of Slope Width of Waterbody - Water Edge to Bank to Top of Bank: to Toe of Slope: Water Edge: ft. N/A 🗆 N/A 🗆 Sinuosity: Water velocity: Bank height Bank slope (check one) (Approx.) ☐ Straight degrees Meandering N/A degrees Qualitative Attributes Water Appearance: □No water **Clear** (check one) □Turbid □Sheen □ Surface □Algal Other: on surface scum mats Substrate: ☐ Bedrock ☐ Boulder ☐ Cobble ☐ Gravel ☐ Sand ☐ Silt/ clay ☐ Organic ☐ Other: (check all that apply) % of Substrate: Width of Riparian Zone: Vegetative Layers: (check all that apply) Trees: Herbs Saplings/Shrubs: Avg. DBH of Dominants: N/A 🗆 Dominant Bank Vegetation (list): Smilax rotundifolia, Liquidambar styraciflua Liqustrum sinenses. Aquatic Habitats (ex: submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): submerged wood Aquatic Organisms Observed (list): none T&E Species Observed (list): Disturbances (ex: livestock access, manure in waterbody, waste discharge pipes): none Tributary is: Natural (check one) ☐ Artificial, man-made ☐ Manipulated Stream Quality a: (check one) High Moderate ☐ Low

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.

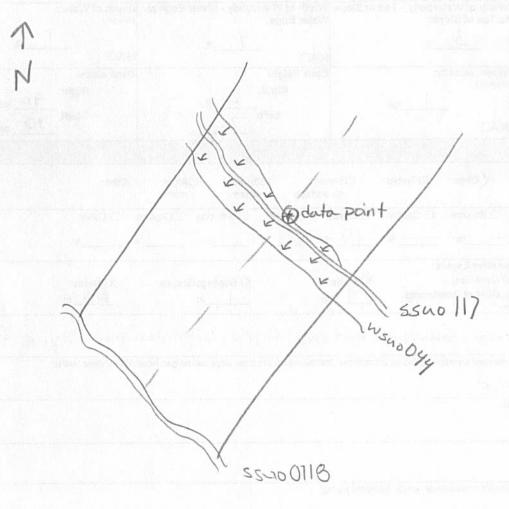
Moderate Quality: Altered by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or bank vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers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

(Hurricane Matthew) Heavy rain within 72hrs. [approx. 11"]

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





Waterbody data point ssuo117 facing north upstream.



Waterbody data point ssuo117 facing south downstream.



Waterbody data point ssuo117 facing east across bank.

Linear Waterbody Data Sh	eet			
Survey Description			<b></b>	10-1-
Project Name:	Waterbody Name:		Waterbody ID:	Date: 1/5//6
HUP	Unt to C	ohon Cearl	55UP 018	1/3/16
State: VA County/Paris	Comp		Crew Member Initials:	Photos: W, SE, 5
Tract Number(s):		st Milepost:	Associated Wetlan	d ID(s):
26-060-1	9030	55.8	None	
Survey Type: (check one)	rline DRe-Route	□Access Road	Other:	
Physical Attributes				
Stream Classification: (check one)	neral Intermittent	□Perennial		
Waterbody Type: (check one) □River □	Stream   Ditch	☐ Canal ☐ Other		
OHWM Indicated that the original of the origin	apply)	Clear line □Shelvin	g	□Scouring □Water staining
Height: 0.2 ft. □Be vege		Vrack line ☐ Litter a debris	nd □Abrupt plant community change	☐Soil characteristic change
Width of Waterbody - Top of Wid	Ith of Waterbody - Toe of Toe of Slope:ft.	Slope Width of Waterb Water Edge:	ody - Water Edge to Dept (Appro	0.2 ft.
	ter velocity:  // fps	Bank height Right: Left:	0.5 ft.	Right: 45 degrees Left: 45 degrees
Qualitative Attributes				
Water Appearance: (check one)	□Clear □Turbid	Sheen □Su on surface sc	rface □Algal □Oth um mats	ner:
Substrate:	Boulder Cobble C	Gravel Sand		Other:%
75 ft. (check al	BH of Dominants:	<u>16</u> in	3_in.	Herbs NA_in.
Dominant Bank Vegetation (list):  Ligustrum sir	nense, Ilex	opaca, Vitis	rotundifolia,	Liquidambar styraciflua
Aquatic Habitats (ex: submerged or em	erged aquatic vegetation, overh	nanging banks/roots, leaf pad	cks, large submerged wood, riffle	s, deep pools):
Aquatic Organisms Observed (list):				
T&E Species Observed (list):				
Disturbances (ex: livestock access, man		arge pipes):		
Tributary is:		man-made 🖼 Manip	pulated	
Stream Quality *:		1		

Watert	oody	ID:	
55	up	0	18

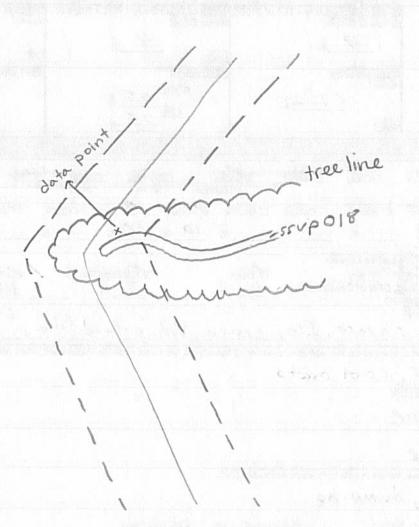
\* High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance 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 data point ssup018 facing west upstream.



Waterbody data point ssup018 facing southeast downstream.



Waterbody data point ssup018 facing south across bank.

Linear Waterbody Data Sheet					
Survey Description					
Project Name: W	aterbody Name:		Waterbody ID:		Date:
ACP	JIN 10 Whon CREEK		ssup (	ALLegenter of the Artist of the Artist of the Control of the Contr	1/6/16
State: VA County/Parish: Suffol	Company:	SI	mks / Nu	1886 (1986 - 1988 - 1986 )   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886   1886	SW, NW
Tract Number(s):	Nearest Mile	post:		Vetland ID(s):	Taller State Andrews
26-060-A031, 26-060-A	9032	06.2	W20	7,032	BI TON GROUP
Survey Type:	DRe-Route	□Access Road	□Other:		
Physical Attributes Stream Classification:					
(check one) Ephemeral	□Intermittent	<b>™</b> Perennial			
Waterbody Type: (check one) □River □Stream	m □ Ditch □ Ca	nal   Other			
OHWM Indicator (check all that apply)	: © Clear lin on bank	e ⊠Shelvin	g □Wrested vegetation	⊡Scouring	g □Water staining
N/A to vegetation	ted, or missing Wrack lin	debris	community o		haracteristic change
Width of Waterbody - Top of Bank to Top of Bank: Width of V to Toe of	6_ft.	Water Edge:	ody - Water Edge to  ft.		r: 1.5_ft.
Sinuosity: (Check one)  Straight  Meandering  N/A		N/A□ Bank height Right: Left:	3 n. 4 n.	N/A□ Bank slope Right Lef	<u>50</u> degrees
Qualitative Attributes					
Water Appearance: (check one)		een □Sur surface sc		□Other:	
Substrate:    Bedrock   Bould	12	80 %	PSilt/ clay ☐ Organ		
N/A (approx.)	Dominants: /2	jn	Saplings/Shrubs:	Herbs NH_in	32. 17 2.45 ETS 122
Dominant Bank Vegetation (list): Ac. Nyssa biflora, Gelsen	er rubrum ium semperviren	Taxodium s, Lonicer	distichum ajaponica	, Ligustr	umsinense
Aquatic Habitats (ex: submerged or emerged as	quatic vegetation, overhanging	banks/roots, leaf pac	ks, large submerged woo	d, riffles, deep poo	s):
Aquatic Organisms Observed (list): Benthic macroin					
T&E Species Observed (list):					
Disturbances (ex: livestock access, manure in w	raterbody, waste discharge pipe	s): odplain			
Tributary is: (check one) Natural	☐ Artificial, man-m	ade □ Manip	ulated		
(check one)	☐ Artificial, man-m	de □ Manip	diated		

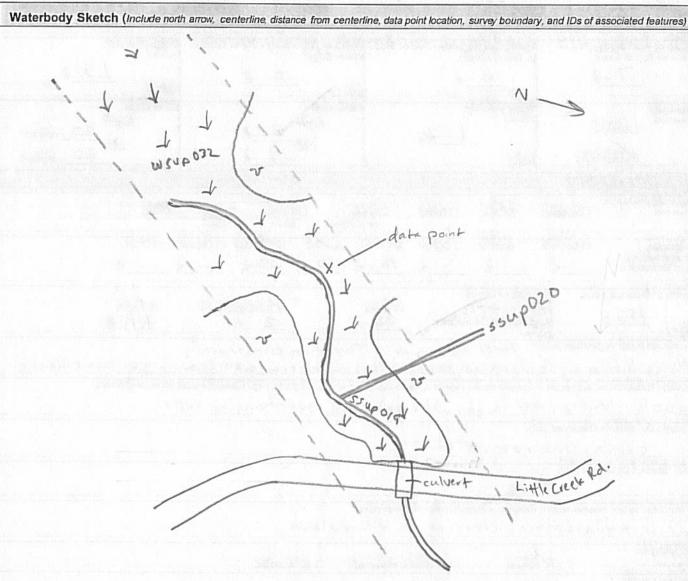
Waterbody	IC	);	
ssu	0	01	9

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 data point ssup019 facing northeast upstream.



Waterbody data point ssup019 facing southwest downstream.



Waterbody data point ssup019 facing northwest across bank.

Linear Waterbody	Data Sheet					Salah Maradalah Antah	
<b>Survey Description</b>							Data
Project Name:	)	Waterbody Na	me: to Cohoo	n Creek	Waterbody ID:		Date: 1/6/16
State: VA	County/Parish:	olk	Company: E5 I		Crew Member Initia  MKS, NW	m N,	S,E
Tract Number(s):			Nearest Milepos			Wetland ID(s):	
26.060.A031			56,3		m2nb 035		
Survey Type: (check one)	□Centerline	. □Re-I	Route	Access Road	□Other:		
Physical Attributes							
Stream Classification: (check one)	□Ephemera	d Effeter	mittent	Perennial			
Waterbody Type: (check one) □R	River Str	eam 🗆 Dito	ch 🗆 Canal	☐ Other:			
OHWM Width: 1.5 ft.	OHWM Indica (check all that appl)		Clear line on bank	□Shelving	□Wrested vegetation	⊠Scourin	g □Water staining
Height: 0.3 ft.	□Bent, n vegetatio	natted, or missin n	g □Wrack line	□Litter an debris	d	and the facilities of the control of	haracteristic change
Width of Waterbody - To Bank to Top of Bank:	p of Width to Toe	of Waterbody - of Slope: /.5_ft.	Toe of Slope Wid Wat	ter Edge:	ody - Water Edge to	Depth of Wate (Approx.)	r: 0.3 <sub>ft.</sub>
Sinuosity: (check one)  Straight	(Approx.)	velocity:	and the second second second	k height Right: Left:	/_n.	Bank slope Right Lef	degrees
Qualitative Attribute	es						
Water Appearance:		Clear   Turb	oid □Sheen on surf	□Suri	Demonstration of the second of the second	□Other:	
Substrate:  (check all that apply) % of Substrate:	Bedrock 🗆 Bo			☐ Sand ☐ 75 % _	Silt/ clay ☐ Organ	ic	
Width of Riparian Zone:  50 ft. N/A□	(approx.)		Trees:		Saplings/Shrubs: in.	Herbs NA ir	1.
Lonicerajapo	on (list):	Taxodiu	m distich	um, Hed	era helix,	Ligurtrum	sinense
Aquatic Habitats (ex: sub Root mat	merged or emerge	aquatic vegetation	n, overhanging bank				
Aquatic Organisms Obs	erved (list):			10 14 15 15 15 15 15 15 15 15 15 15 15 15 15			
T&E Species Observed (		N. Carlo	1				
Disturbances (ex: livestoc	k access, manure i	n waterbody, wast	e discharge pipes):				
Tributary is: (check one)	Natural	□ Ar	tificial, man-made	☐ Manipu	ulated		
Stream Quality *: (check one)	□ High	<b>⊠</b> Me	oderate	□ Low			

Waterbody ID:

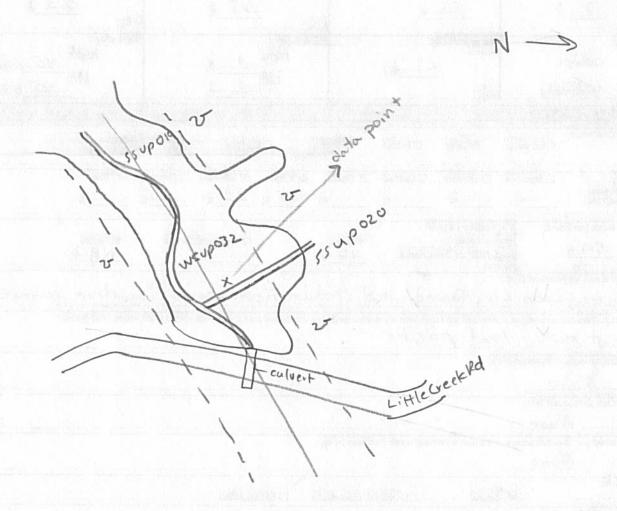
\* High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance 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 data point ssup020 facing north upstream.



Waterbody data point ssup020 facing south downstream.



Waterbody data point ssup020 facing east across bank.

Linear Waterbody Data She	eet					
Survey Description					l.	
Project Name:	Waterbody Nar	ne:		Waterbody ID: Date:		
ACP	UNTTO	Cohoon (	reek	22000	21	1/0/16
State: County/Parish		Company:	C	rew Member Initials	: Photos:	
VA suff	olk	ESI		MKS, NU	IM SE	, NW, NE
Tract Number(s):		Nearest Milepost		Associated W	/etland ID(s):	
26-060-A031		5	6.3	W	rup 0:	5 5
Survey Type: (check one)	line ØRe-F	Route 🗆	Access Road	□Other:		
Physical Attributes						
Stream Classification: (check one)	neral □Inter	mittent 🗹	erennial			
Waterbody Type: (check one) □River ☑	Stream □ Ditc	h 🗆 Canal	☐ Other:			
OHWM OHWM Ind (check all that a		☐ Clear line on bank	□Shelving	□Wrested vegetation	Scouring	□Water staining
Height: o.5 ft. □Ber veget	nt, matted, or missing	g Wrack line	☐ Litter and debris	☐ ☐ Abrupt plar community cl		naracteristic change
	th of Waterbody -	Toe of Slope Widt	h of Waterboo	dy - Water Edge to	Depth of Water	
Bank to Top of Bank: to T	oe of Slope:	Wate	er Edge:		(Approx.)	.5 ft.
_ <u>2ft.</u>	ft.		_2	ft.		ft.
		N/AE	and Allert Annual Property and the		N/A□ Bank slope	
Sinuosity: Wat (Application of Check one)	er velocity:	Bani	k height Right: )		Right	11-
□Straight	1 fr	os	Kigiii.	ft.		degrees
Meandering N/A			Left:	/ n.	Left	: 45 degrees
EMeandering N/A			100000000000000000000000000000000000000	<u> </u>	S0108/1981-49891	
Qualitative Attributes						
Water Appearance: (check one) □No water	©Clear □Turb	id □Sheen on surfa	□Surfa	# 100 HOLD : 100 HOLD	□Other:	
Substrate:   Bedrock	Boulder □ Cobb	le 🖾 Gravel	Sand B	Silt/ clay   Organi	c 🗆 Other:	
(check all that apply) % of Substrate:%	%	% _5_%	75%	20%	%%	
Width of Riparian Zone: Vegeta	tive Layers:			1 1/2		
(check all	that apply)	Trees:	8	Saplings/Shrubs:	Herbs	
	BH of Dominants:	in.		in.	Nff_in	
N/A☐ (approx.)  Dominant Bank Vegetation (list):		And the second s	1:00-	rinence		
Nyssabiflora, 5m	ilax rotu	ndifolia	Rosa	multiflor	a, Lonicer	ajaponica
Aquatic Habitats (ex: submerged or eme	rged aquatic vegetatio	n, overhanging banks	roots, leaf packs	s, large submerged woo	d, riffles, deep pool	s):
Aquatic Organisms Observed (list):			The Land Office			
None			2 (0 6			
T&E Species Observed (list):	40.44					
None						
Disturbances (ex: livestock access, manu	ire in waterbody, waste	e discharge pipes):				
Clearing in powe	cline ROL	L)				
Tributary is: (check one) □ Natu	ral 🗆 Ari	tificial, man-made	Manipul	ated		
Stream Quality *:	1					
(check one) High	☑ Mo	oderate	□ Low		Lower Date in	Contract of the second

a 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) 1/55 UP 019 SSUPOZZ culvert



Waterbody data point ssup021 facing southeast upstream.



Waterbody data point ssup021 facing northwest downstream.



Waterbody data point ssup021 facing northeast across bank.

Linear Waterbod	y Data Snee	treate to no processor to					
Survey Description	n				6W-1b	Data	
Project Name:	P	Waterbody Name: Untto Cohoon Creel			Waterbody ID: Date: SSUP 023 1/6/16		
HC		UNT			550 DZ3		
State:	County/Parish:	11.	Company:		w Member Initials:	Photos:	
VA	suff	olk	ESI	1	mks / NWM	NW,S,E	
Tract Number(s):	and east vallers	y company to com	Nearest Milepost:	Samuel III	Associated Wetl	일반 보겠다고 있는 것이 없는 이 그리고 있는 것이 없었다. 이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다.	
26-060	-A031		50	23	W54P033		
Survey Type: (check one)	□Centerline	ù Ì⊈Re	-Route □Ac	ccess Road	□Other:	100 (10 800 100)	
Physical Attributes	5						
Stream Classification: (check one)	□Ephemera	al Minte	ermittent □Pe	erennial	1 h 1 mm 2	A Maria Day	
Waterbody Type: (check one)	River Str	eam 🗆 Di	tch   Canal	☐ Other:			
OHWM Width:ft.	OHWM Indica (check all that appl)		☐ Clear line on bank	□Shelving	□Wrested vegetation	□Scouring □Water staining	
Height: <u>△-2</u> ft.	☑Bent, r vegetation	natted, or missi in	ing □Wrack line	□Litter and debris	☐ Abrupt plant community chan	☑Soil characteristic change ge	
Width of Waterbody - T			Toe of Slope Width	of Waterbody	- Water Edge to De	pth of Water: orox.)	
Bank to Top of Bank:	1	of Slope:	water	Edge:		0. 2 ft.	
1.5 ft.	-	1, 0_ft.	N/A□	0.5		π.	
Sinuosity:	Water	velocity:		height		nk slope	
(check one)	(Approx.)			Right: ->		Right: 75	
Loudight		< 1	fps	Left:	ft.	Left:degrees	
□Meanderin	ng N/A□		A	1	ft.	45 degrees	
Qualitative Attribu	tes						
Water Appearance:		/					
(check one)	No water   □	Clear □Tu	rbid □Sheen on surface	□Surface e scum	e □Algal □C mats	Other:	
Substrate:	Bedrock □ Bo	oulder   Cot	oble □ Gravel □	Sand D	ilt/ clay P Organic	☐ Other:	
(check all that apply)					0% 10%	0/2	
% of Substrate:	%	%	%%	%	<u></u>	70	
Width of Riparian Zone				7 P		-1.	
30 ft.	(check all that	of Dominants	☐ Trees:		aplings/Shrubs: 3 in.	Herbs	
N/A□	(approx.)	or Dominants	in.	-	HL	<u> </u>	
Dominant Bank Vegeta		c .1	1 100 10	- 1	4	1	
Note to be the second transfer and the second	ilda a casa canal basema andone			and the second s		undinariagigantea	
Aquatic Habitats (ex: su		d aquatic vegetat	ion, overhanging banks/ro	oots, leaf packs, la	arge submerged wood, rif	fles, deep pools):	
leaf pa	cks						
Aquatic Organisms Ob	served (list):	7.6 TELEVISION TO THE RESERVE OF THE		M.	E 20118		
None				1		X	
T&E Species Observed		7			- 44 W		
None	1						
Disturbances (ex: livesto			ste discharge pipes):	ar William			
Agricultu	re runo	44	II CI		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Tributary is: (check one)	□ Natural		Artificial, man-made	☐ Manipulate	ed	**************************************	
Stream Quality a:		79 <u>10-3</u> 10		_			
(check one)	☐ High		Moderate	Low			

Waterbody ID:

a 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.

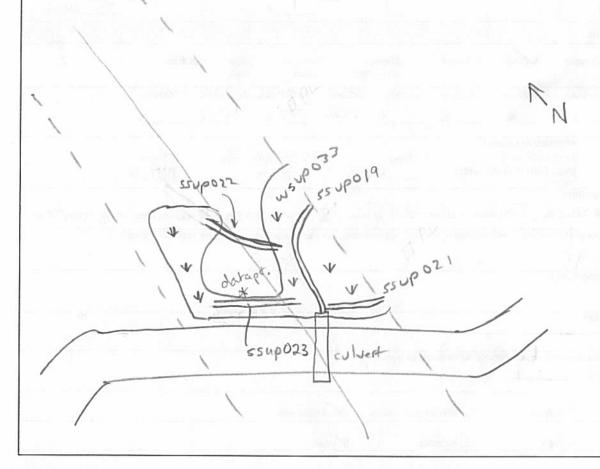
**Moderate Quality:** Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; 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:

Little to no aquatic habitat

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

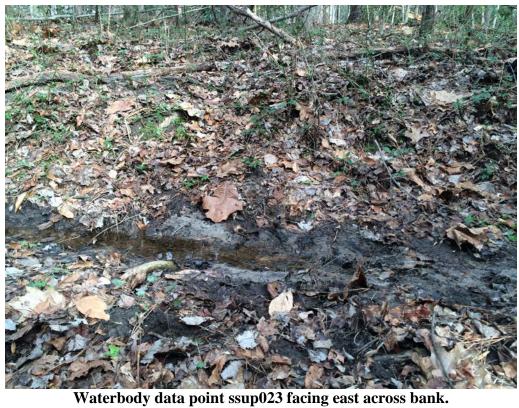




Waterbody data point ssup023 facing northwest upstream.



Waterbody data point ssup023 facing south downstream.



Linear Waterbody Data Shee	t			
Survey Description	Committee that is not			Date:
Project Name:	Waterbody Na		Waterbody ID:	1 11111
ACP	45770	Cohoon Creek		110116
State: County/Parish:		Company:	Crew Member Initials:	Photos:
VA Suffo	lk	ESI	MKS, NWM	
Tract Number(s):		Nearest Milepost:	Associated Wet	
26-060-A03	1	56.3	msnb03	3
Survey Type:	e DRe-F	Route □Access Roa	d □Other:	
Physical Attributes				
Stream Classification: (check one) □Ephemer	al Dinter	mittent		
Waterbody Type: (check one) □River □St	ream 🗆 Dito	ch ☐ Canal ☐ Othe	г	
OHWM OHWM Indicated Check all that app		☐ Clear line ☐ Shelvi	ng	☐Scouring ☐Water staining
Height: o.3 ft. □Bent, vegetation	matted, or missin	g ☑Wrack line ☐Litter a debris	and	☐Soil characteristic change nge
Width of Waterbody - Top of Width	of Waterbody -	Toe of Slope Width of Water		epth of Water:
Bank to Top of Bank: to Toe	of Slope:	Water Edge:	경기 가는 사람들이 되었다.	0.3 ft.
	<u> </u>		2_ft.	nt.
Washington and the second seco	volosiba	N/A□ Bank height		ank slope
check one) (Approx.	velocity:	Right	, ,	Right: 70
□Straight	f</td <td>os –</td> <td><u>7</u>ft.</td> <td>degrees</td>	os –	<u>7</u> ft.	degrees
Meandering N/A□		Left:	Z ft.	Left: 45 degrees
Qualitative Attributes				
Nater Appearance: check one) □No water □	Clear □Turb	And the second of the second s	urface □Algal □ cum mats	Other:
Substrate: ☐ Bedrock ☐ B	oulder   Cobb	ole □ Gravel ☑ Sand	Silt/ clay Organic	☐ Other:
check all that apply) % of Substrate:%	%	%% 20%	60% 20%	%
Width of Riparian Zone: Vegetativ	e Layers:			
6 ft. Avg. DBI		☐ Trees:	Saplings/Shrubs:	Herbs NH in.
N/A□ (approx.)	l of Dominants:	in.	in.	101.
Dominant Bank Vegetation (list):				
Lonicera japonio	a, Iles	x opaca		
Aquatic Habitats (ex: submerged or emerged leaf pack	ed aquatic vegetation	n, overhanging banks/roots, leaf pa	icks, large submerged wood, i	iffles, deep pools):
Aquatic Organisms Observed (list):				
None		2-196 35 1		
T&E Species Observed (list):				
Disturbances (ex: livestock access, manure	in waterbody, wast	e discharge pipes):		
Agriculture runof				
Tributary is:	□ Ar	tificial, man-made Mani	pulated	
Stream Quality :: (check one)	□ M	oderate 🗗 Low	roekt statistic out to statist	alan ana ay sa da sa

\* 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.

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Notes:

little to no aquatic habitat

Waterbody Sketch (Include north arrow, centerline, distance from centerline, data point location, survey boundary, and IDs of associated features) 17 22 nb 051 554p023