APPENDIX A:

PHASE 1 REACH REPORTS

Mill Brook -	Basir	า 13							Pha	ase	1 -	Rea	ach	Su	mn	nary	Report	t
Basin:	Lower C	onnecticut							Reach				M01				-	
Stream Name:	Mill Bro	ok							SGAT	- Versi	on:		4.56					
Topo Maps: Watershed:	WINDSC	DR							Date I QA St	Last E tatus:	dited:		•	l, 03 2 hecks:		complet	e	
Sub-watershed: Step 1. Reach Locat			extends	s fro	om the	e confl	uenc	e with		ach Ar onneo	•			-	No s ups	stream to	o the Union	St.
1.1 Reach Descriptic	on:	Bridge.																
1.2 Towns: Wind	sor								5	Step 4.	Land	Cove	r - Rea	ach Hy	drolo	<u>av</u>		
1.3 Downstream Lati	tude:	43.4722	294						2	4.1 Wa	itershe	ed						
1.3 Downstream Lon	gitude:	-72.387	101							Histo	oric La	and Co	ver:				Forest	
Step 2. Stream Type										Curr	ent Do	ominai	nt Lan	d Cove	er:		Forest	75.0 %
2.1 Elevation Upstrea 2.1 Elevation Downs	tream:		320 302	2					Z	Curr 1.2 Co		ub-Dor	ninan	Land	Cove	er:	Urban	
2.1 Is Gradient Gentl	le?:		No							Histo	oric La	and Co	ver::			C	Commercial	
2.2 Valley Length:		1,7	' 59.6 ft.			0.33	Mile	es		Curr	ent Do	ominai	nt Lan	d Cove	er:		Urban	51.0 %
2.3 Valley Slope:		_	1.0							Curr	ent Su	ıb-Dor	ninan	Land	Cove	er:	Crop	
2.4 Channel Length:		1,7	' 64.3 ft.			0.33	Mile	es	4.3	Ripari	ian Bu	ıffer			Le	eft Bank	Right	<u>Bank</u>
2.5 Channel Slope:			1.02						[Domina	ant:					0-25	0-2	25
2.6 Sinuosity:			1.00						5	Sub-do	minar	nt:			:	26-50	51-1	00
2.7 Watershed Area:				•	uare N	liles			L	ength	w / le	ss tha	n 25 fi	.:	1,	, 481.0 ft.	. 73	5.0 ft.
2.8 Channel Width:			69.7						4.4	Groun	d Wat	er Inp	uts:	N	linim	al		
2.9 Valley Width:			275.0		t				Ste	n 5. In	strear	n Cha	nnel N	1odifica	ations			
2.10 Confinement Ra			3.9							Flow				loamo		2		
2.10 Confinement Ty		Semi-c	onfine	d						Гуре:	U		. ,	1	None			
2.11 Reference Strea	am Type:	Α								Jse:								
Bedform:		Cascad	le							Bridge	es and	d Culve	erts:		2	2	3.7 %	D
Sub-Class Slop	e:	С								Bank					0.	.0	0.0 %	D
Bed Material:		Bedroc	k							Left:		5	0	.0 ft.	Riah	it:	0.0 ft	
Step 3. Basin Charate	eristicts								5.4	Chan		raighte			0.0		0.0 %	
3.1 Alluvial Fan:		None								Dredo		-	g.		None			
3.2 Grade Control:		Ledge								p 6. F			difica					
3.3 Dominant Geolog	gical Mat.:	Ice-Cor	ntact			65.7 S	%			Berm:				10115	46	60.7 ft.	26.1	
3.3 Sub-dom. Geolog	0	Alluvia	I						0.1	Denna	Saru	Jaus -	olu.			<u>Side</u>	Both Sides	
3.4 Valley Slope Left		Ext. Ste	ер							Roa	4.					<u>510e</u> 50.7 ft.	<u>0.0</u> ft	
3.4 Valley Slope Rigl	ht:	Ext. Ste	ер								o. road:					0.0 ft.	0.0 ft	
3.5 Soils										Berr						0.0 ft.	0.0 ft	
Hydrologic Group:		Not Ra	ted			64.2 9	%				roved l	Dath				0.0 ft.	0.0 ft	
Flooding:		None/R	are			66.3 S	%		6.2	Devel						59.4 ft.	594.3 ft	
Water Table Deep):	3.0				33.1 9	%			Chan	•					9.4 II.	394.3 IL	
Water Table Shall	ow:	1.5				33.1	%								Side			
Erodibility:		slight				1.5	%			Mean		0	n:	r	lone			
7.4 Comments:										Mean							ato: 0.0	
Main Street and rail	road bridg	je are high	and wi	ide,	no ice	e jam r	isk.			Wave	0					N/A R	atio: 0.0	
										p 7. W			<u>irvey</u>					
									7	7.1 Bai	nk Ero	sion:		C)			ft
									7	7.2 Bai	nk Hei	ght:		1	No Da	ata		ft
									7	7.3 Ice	/Debri	s Jam	Poter	ntial: I	lone			
4.1 4	.2 4.3	5.1 5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tot	al			
	2 2	0 0	0	0	0	2	2	0	0	0	0	0	0	9				
	∠ ∠ igh High I		-	0 N.S.	-			-	N.S.	N/A	N/A	-	-	-				
						. 9.1		1	1		l	1	L					

Mill Brook	- Basin	13						Pha	ase	1 -	Rea	ach	Su	m	mary	Repor	t
Basin:	Lower Co	nnecticut						Reach				M02			4		
Stream Name:	Mill Brook	[SGAT	Versi	on:		4.56					
Topo Maps: Watershed:	WINDSOR	1						Date I QA St	Last E	dited:		•	l, 03 2 hecks		e complet	e	
Sub-watershed: Step 1. Reach Loc	ation Th	is reach exten	ds fro	m the	reach	npoin			ach An nion s	•				No dam	West of (Clough Ave	•
1.1 Reach Descrip	tion:																
1.2 Towns: Wii	ndsor							5	Step 4.	Land	Cove	r - Rea	<u>ach Hy</u>	drol	ogy		
1.3 Downstream L	atitude:	43.475993						2	I.1 Wa	itershe	ed						
1.3 Downstream L	ongitude:	-72.390204							Histo	oric La	and Co	ver:				Forest	
Step 2. Stream Ty	<u>be</u>								Curr	ent Do	ominar	nt Land	d Cove	ər:		Forest	75.0 %
2.1 Elevation Upst 2.1 Elevation Down		34 32						2	Curr I.2 Co		ub-Dor	ninant	Land	Cov	ver:	Urban	
2.1 Is Gradient Ge	ntle?:	N	0							oric La	and Co	ver::			c	commercia	1
2.2 Valley Length:		2,460.3 f	ťt.		0.47	Mil	es		Curr	ent Do	ominar	nt Land	d Cove	۹r.	-	Urban	64.0 %
2.3 Valley Slope:		1.	.1									ninant			/er:	Crop	VTIV /0
2.4 Channel Lengt	h:	3,806.8 f	it.		0.72	Mil	es	43	Ripari				Lanu		_eft Bank	•	Bank
2.5 Channel Slope	:	0.7	2 %						Domina					<u>L</u>	26-50		-50
2.6 Sinuosity:		1.5	5						Sub-do		nt•				51-100	-	25
2.7 Watershed Are	a:	44.	. 5 Squ	iare N	liles				_ength			n 25 ft			101.0 ft.	-	1.0 ft.
2.8 Channel Width	:	69.	6 feet						Groun					linir		1,00	
2.9 Valley Width:		550.	.0 feet								•						
2.10 Confinement	Ratio:	7.	.9						<u>p 5. In</u> Flow l					allor	15		
2.10 Confinement	Туре:	Broad								reguie		(010).		Non	<u>م</u>		
2.11 Reference St	eam Type:	С							Гуре:					1011	C		
Bedform:		Riffle-Pool							Jse: Bridge	as and		arte:			4	3.1 9	/_
Sub-Class Slo	ope:	None							Bank			5113.		1 -	794.2	47.1 9	
Bed Material:		Gravel						5.5	Left:		ing.	1,057	1 ft	Ric		737.1 f	
Step 3. Basin Char	ateristicts							Б <i>Л</i>	Chani		niahta	,		1,39		36.5 9	
3.1 Alluvial Fan:		None							Dredo		0	mig.		Non		30.5	/0
3.2 Grade Control:		Ledge												1011	e		
3.3 Dominant Geo	ogical Mat.:	Alluvial			54.4 9	%			<u>p 6. Fl</u>				ions				_
3.3 Sub-dom. Geo	logical Mat.:	Ice-Contact						6.1	Berm	s & Ro	bads -	old:		_	85.1 ft.	2.	
3.4 Valley Slope Le	eft:	Steep							_					On	<u>e Side</u>	Both Side	
3.4 Valley Slope R	ight:	Very Steep							Roa						85.1 ft.	0.0 f	
3.5 Soils										oad:					0.0 ft.	0.0 f	
Hydrologic Grou	ip:	С			39.2 9	%			Bern						0.0 ft.	0.0 f	
Flooding:		None/Rare			45.6 9	%			•	oved I					0.0 ft.	0.0 f	
Water Table De	ep:	1.5			39.2 9	%			Devel	•			_		815.4 ft.	1,500.8 f	t.
Water Table Sha	allow:	0.0			39.2 9	%			Chan						iple		
Erodibility:		slight			14.1 9	%		6.4	Mean	der Mi	igratio	n:	ľ	Mult	iple		
7.4 Comments:								6.5	Mean	der W	idth:				110 ft. Ra	ato: 1.6	
Upstream dam lik	ely limits ice r	novement, bri	dges a	are fa	irly hi	gh ar	nd wide	e. 6.6	Wave	length	1:				290 ft. R	atio: 4.2	
								<u>Ste</u>	p 7. W	/indshi	ield Su	urvey					
								7	7.1 Bai	nk Ero	sion:		5	571.	373		ft
								7	7.2 Baı	nk Hei	ght:		5	5			ft
								7	7.3 Ice	/Debris	s Jam	Poten	tial: N	Non	е		
4.1	4.2 4.3 5.	1 5.2 5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tot	al			
1 Low	2 2 0 High High N.		2 High	0 N.S.	0 N.S.	2 High	1 Low	1 Low	2	2 High	1 Low	0 N.S.	18	5			

Mill Br	Il Brook - Basin 13												Pha	ase	1 -	Rea	ach	Su	m	mary	Repo	rt
Basin:		I	owe	r C	onne	ecticu	ıt						Reach	n ID:			M04			-	_	
Stream Nan	ne:	ľ	Mill B	roc	ok								SGAT	Versi	on:		4.56					
Topo Maps: Watershed:		١	WIND	SO	DR								Date I QA St	∟ast Eo atus:	dited:		•	l, 03 20 hecks		complet	e	
Sub-waters	hed:												ls Rea	ach An	lmpo	undme	ent?:	N	lo			
<u>Step 1. Rea</u> 1.1 Reach D								nds fro Rd ar				t alon	g Asc	utney	Stree	et Wes	t of I-	91 and	d ex	tends up:	stream to	he reach
1.2 Towns:	Wi	ndso	r										5	Step 4.	Land	Cove	r - Rea	ach Hy	drol	ogy		
1.3 Downstr	ream L	atituc	le:		4	3.463	3029						2	I.1 Wa	tershe	ed						
1.3 Downstr	ream L	ongit	ude:		-7	72.40	334							Histo	oric La	ind Co	ver:				Forest	
Step 2. Stre	am Ty	<u>vpe</u>												Curr	ent Do	ominar	nt Lan	d Cove	er:		Forest	76.0 %
2.1 Elevatio 2.1 Elevatio								20 78					2	Curr I.2 Col		ıb-Dor	ninant	Land	Cov	er:	Urban	
2.1 Is Gradi	ent Ge	entle?					I	No							oric La	ind Co	ver::			c	ommercia	h
2.2 Valley L	ength	:				7,	,919.1	ft.		1.50	Mile	es		Curr	ent Do	ominar	nt I an	d Cove	۰r.		Urban	 34.0 %
2.3 Valley S	lope:						(0.5										Land		er:	Forest	0 110 /0
2.4 Channe	l Leng	th:				8,	,067.2	ft.		1.53	Mile	es	4.3	Ripari				_2.10		eft Bank		t Bank
2.5 Channe	I Slope	e:					0.	52 %						Domina						51-100		100
2.6 Sinuosit								02					ę	Sub-do	minar	nt:				0-25	0	-25
2.7 Watersh								3.1 Sq		liles			L	ength	w / le	ss tha	n 25 ft	.:		1,560.0 ft.	1,9	86.0 ft.
2.8 Channe		า:						3.6 fee					4.4	Groun	d Wat	er Inp	uts:	А	bun	dant		
2.9 Valley V).0 fee	t				Ste	n 5. In	strear	n Cha	nnel M	lodifica	atior	IS		
2.10 Confin								5.7						Flow I				ioanio				
2.10 Confin						larro	w						-	ype:	-			Ν	lone	e		
2.11 Refere		tream	Туре	:	C		_							Jse:								
Bedfor							Pool							Bridge	es and	I Culve	erts:			2	1.6	%
Sub-Cl		•				lone	_						5.3	Bank	Armor	ing:			2,1	05.5	26.1	%
Bed Ma					G	Grave	el							Left:			831	.4 ft.	Rig	ht:	1,274.1	ft.
Step 3. Basi		rateris	TICIS										5.4	Chan	nel Str	aighte	ening:	6	60.9	Ð	8.2	%
3.1 Alluvial						lone							5.5	Dredg	ging Hi	istory:		0	Dred	lging		
3.2 Grade C						lone Alluvi	a l			E0 2 0	<u>م</u>		Ste	p 6. Fl	loodpla	ain Mo	dificat	ions				
3.3 Dominal		-								59.3 °	70		6.1	Berm	s & Ro	oads -	old:		6,4	59.2 ft.	80	.1
3.3 Sub-dor		-	ai ivia	[.:			ontact												One	e Side	Both Side	es
3.4 Valley S 3.4 Valley S						Ext. S	-							Roa	d:					59.2 ft.	0.0	ft.
3.4 Valley 5 3.5 Soils	поре г	kight.			v	ery a	Steep							Railr	oad:					0.0 ft.	0.0	ft.
Hydrologi	ic Cro				c					56.8	07.			Bern	n:					0.0 ft.	0.0	ft.
Flooding:		up.				, Frequ	ont			42.8				Impr	oved	Path:				0.0 ft.	0.0	ft.
Water Ta		en.				.5	ent			42.8			6.2	Devel	opme	nt:			7	'10.2 ft.	0.0	ft.
Water Ta		•								42.8			6.3	Chan	nel Ba	rs:		Ν	/lulti	iple		
Erodibility		anow	•			light				24.2			6.4	Mean	der Mi	igratio	n:	Ν	/ligr	ation		
7.4 Comr					3					_7.2	, 0		6.5	Mean	der W	idth:				150 ft. R	ato: 2.2	
Route 44 b			harp	be	nd h	as so	ome p	otenti	al for i	ice jar	nming	j .	6.6	Wave	length	:				800 ft. R	atio: 11.7	
Bridge was	dest	royed	duri	ng	т. s.								<u>Ste</u>	p 7. W	/indsh	ield Su	<u>urvey</u>					
towards Ro	Jute 4	4 111 10	wer	rea	icn.								7	'.1 Baı	nk Ero	sion:		5	576.2	287		ft
													7	7.2 Baı	nk Hei	ght:		5	5			ft
																0	Poten	itial: E		ł		11
	4.1	4.2	4.3	Τ	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tot	al			
	1	2	2	+	0	0	2	1	2	2	1	1	2	2	0	1	1	20	\neg			
		-			~	-	. ~		. ~	. ~			. ~	-	× ۱				·			

Mill Br	ook	< - E	Ba	si	n 1	3							Pha	ase	1 -	Rea	ach	Su	mr	mary	Repo	rt
Basin:		1	Low	ver (Conne	ecticu	Jt						Reach				M05			-	-	
Stream Nan	ne:	I	Mill	Bro	ok								SGAT	Versi	on:		4.56					
Topo Maps: Watershed:		1	WIN	IDS	OR								Date I QA St		dited:		•	l, 03 20 hecks		complet	e	
Sub-watersl <u>Step 1. Rea</u> 1.1 Reach E	ch Loo		L					ws Bro south				each I	ls Rea oreak		•				lo et Lr	n and co	ntinues up	stream to
1.2 Towns:	We	est W	ind	sor,	Wind	dsor							5	Step 4.	Land	Cover	r - Rea	ach Hy	drolo	bay		
1.3 Downstr						13.460	0994						4	I.1 Wa	tershe	d						
1.3 Downstr				·		72.41									oric La		ver				Forest	
Step 2. Stre		Ũ		-														d Cove	er:		Forest	76.0 %
2.1 Elevatio 2.1 Elevatio	n Ups	tream					-	07 20					,	Curr	ent Su			Land		ər:	Urban	
2.1 Is Gradi	ent Ge	entle?	:				ľ	No					4	l.2 Col Histo	nicor oric La	nd Co	ver··				Forest	
2.2 Valley L	ength:	:				13	,724.6	ft.		2.60	Mile	es									Forest	20.0.0/
2.3 Valley S	lope:						1	1.4												~r-	Forest	39.0 %
2.4 Channe	•	th:				14	,356.8	ft.		2.72	Mile	es	4.0				ninant	Land			Urban	t Darel
2.5 Channe	I Slope	e:					1.	30 %						Ripari		ffer			Le	eft Bank		t Bank
2.6 Sinuosit	y:						1.	05					_	Domina						>100		100
2.7 Watersh	ned Ar	ea:					40).3 Squ	uare M	liles				Sub-do						26-50		6-50 00.0 %
2.8 Channe	l Width	h:					66	6.6 fee	t					0			n 25 ft			1,083.0 ft.	4	33.0 ft.
2.9 Valley V	Vidth:						218	3.0 fee	t					Groun						dant		
2.10 Confin	ement	Ratic):				3	3.3										lodifica	ations	<u>s</u>		
2.10 Confin	ement	Туре	:		5	Semi-	confir	ned					5.1	Flow I	Regula	ation -	(old):					
2.11 Refere	nce St	tream	Ty	pe:	E	3							٦	ype:				N	lone			
Bedfor	m:				F	Riffle-	Pool						-	Jse:								
Sub-Cl	ass S	lope:			c									Bridge			erts:			4	0.8	
Bed Ma	aterial	:			(Cobbl	le						5.3	Bank		ing:			,	53.1	9.4	
Step 3. Basi	n Cha	rateris	stict	<u>s</u>										Left:					Righ	nt:	894.2	
3.1 Alluvial	Fan:				1	None								Chan		-	ening:		.0		0.0	%
3.2 Grade C	Control	l:			L	_edge	•							Dredg					red	ging		
3.3 Domina	nt Geo	ologica	al N	lat.:		rill -				51.6	%		<u>Ste</u>	<u>p 6. Fl</u>	oodpla	ain Mo	odificat	ions				
3.3 Sub-dor	n. Geo	ologic	al N	lat.:	I	ce-Co	ontact						6.1	Berm	s & Ro	ads -	old:		,	39.9 ft.	30	.2
3.4 Valley S		0			E	Ext. S	teep												One	<u>Side</u>	Both Side	<u>es</u>
3.4 Valley S						Ext. S	•							Roa	d:				4,3	39.9 ft.	0.0	ft.
3.5 Soils		5												Railr	oad:					0.0 ft.	0.0	ft.
Hydrologi	ic Gro	up:			(2				51.3	%			Bern	n:				28	83.9 ft.	0.0	ft.
Flooding:					1	None/	Rare			99.0 ^c				Impr	oved I	Path:				0.0 ft.	0.0	ft.
Water Ta	ble De	ep:			e	6.0				80.2	%		6.2	Devel	opmer	nt:			1,74	41.3 ft.	121.5	ft.
Water Ta		•	•			6.0				80.2			6.3	Chan	nel Ba	rs:		N	lulti	ple		
Erodibility	/:				١	/erv S	Severe	e		86.9			6.4	Mean	der Mi	gratio	n:	N	lulti	ple		
7.4 Comr	nents:					•							6.5	Mean	der W	idth:				N/A R	ato: 0.0	
Brook road some ice ja	im po	tentia	il. E	Broc	ok Rd	clos	ely fol	lows s					L	Wave p 7. W	0		urvey			N/A R	atio: 0.0	
and sustair	ied m	ajor o	am	age	auri	ng T.	5. Irei	ne.					7	7.1 Baı	nk Ero	sion:	-	4	934.	.88		ft
													7	7.2 Baı	nk Hei	aht:		8				
																•	Poten	tial: B		je		ft
[4.1	4.2	4	.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	al			
	1 Low	2 High		1 Sw	0 N.S.	0 N.S.	1 Low	0 N.S.	2 High	2 High	1 Low	2 High	2 High	0 N/A	0 N/A	2 High	1 Low	17				
	LOW	l nan		~	N.O.	14.0.	1 -000	1.0.	i ngil	i ngil	LOW	l	l			i nyii						

Mill Brook	- Basi	n 13	•						Pha	ase	1 -	Rea	ach	Sur	nmar	y Rep	ort
Basin:	Lower	Connec	cticut						Reach				M06			- 1	
Stream Name:	Mill Bro	ook							SGAT	Versi	on:		4.56				
Topo Maps: Watershed:	WINDS	OR							Date I QA St	_ast E atus:	dited:		•	l, 03 20 hecks a	15 are comp	lete	
Sub-watershed:									ls Rea	ach An	lmpo	undm	ent?:	No	c		
Step 1. Reach Loca	<u>tion</u>									Rokep	ba Rd.	and o	extend	ds upst	ream to th	ne intersec	tion of
1.1 Reach Descripti	on:	Browns	sville Rd.	and E	Brown	sville l	Hartla	nd Rd									
1.2 Towns: Wes	t Windsor								5	Step 4.	Land	Cove	<u>r - Rea</u>	ach Hyd	<u>rology</u>		
1.3 Downstream Lat	titude:	43	.470043						2	l.1 Wa	itershe	ed					
1.3 Downstream Lo	ngitude:	-72	2.453251							Histo	oric La	and Co	over:			Forest	
Step 2. Stream Type	<u>ə</u>									Curr	ent Do	ominai	nt Lan	d Cover	:	Forest	76.0 %
2.1 Elevation Upstre 2.1 Elevation Downs			-	67 07					2	Curr I.2 Col		ub-Dor	ninant	Land C	cover:	Urban	
2.1 Is Gradient Gen	tle?:		I	No						Histo	oric La	and Co	ver::			Field	
2.2 Valley Length:			4,961.1	ft.		0.94	Mile	es		Curr	ent Do	ominai	ntlan	d Cover	•	Forest	27.0 %
2.3 Valley Slope:				1.2										Land C	-	Urban	,
2.4 Channel Length	:		6,223.7	ft.		1.18	Mile	es	4.3	Ripari					Left Ban		ght Bank
2.5 Channel Slope:			0.	96 %						Domina					51-100		>100
2.6 Sinuosity:				25						Sub-da		nt:			0-25		0-25
2.7 Watershed Area	:		36	6.5 Sq	uare N	liles							n 25 ft		1,302.0	ft.	735.0 ft.
2.8 Channel Width:			63	3.8 fee	et					Groun					oundant		
2.9 Valley Width:			380	0.0 fee	et							•					
2.10 Confinement R	atio:		(6.0						p <u>5. in</u> Flow l				1odificat	<u>10115</u>		
2.10 Confinement T	ype:	Na	arrow								rogui	ation	(010).	Sr	nall With	drawal	
2.11 Reference Stre	am Type:	С								Type:					ther	arawar	
Bedform:		Ri	ffle-Pool							Jse: Bridge	es and	I Culve	orte:	0	2	0	.5 %
Sub-Class Slop	be:	No	one							Bank			5113.		- 1,124.8	-	.1 %
Bed Material:		Co	obble						5.5	Left:		ing.	955		Right:		.1 /0 .1 ft.
Step 3. Basin Charat	teristicts								51	Chan		aiahte			554.0		.0 %
3.1 Alluvial Fan:		No	one							Dredg		-	-	,	redging	25	.0 /0
3.2 Grade Control:		M	ultiple							-					euging		
3.3 Dominant Geolo	gical Mat.:	Ice	e-Contact	t		78.3	%						odificat	tions			
3.3 Sub-dom. Geold	gical Mat.	: Til	II						6.1	Berm	s & Ro	bads -	old:		669.5 ft.		10.8
3.4 Valley Slope Lef	't:	St	еер							-				<u>(</u>	<u>One Side</u>		
3.4 Valley Slope Rig	jht:	St	еер							Roa					669.5 ft.		.0 ft.
3.5 Soils											oad:				0.0 ft.		.0 ft.
Hydrologic Group	:	В				64.6	%			Bern					0.0 ft.		.0 ft.
Flooding:		No	one/Rare			91.4	%			•	oved I				0.0 ft.		.0 ft.
Water Table Dee	p:	2.	5			56.6	%			Devel	•				1,316.7 ft.	0	.0 ft.
Water Table Shal	low:	1.	5			65.2 S	%			Chanı					ultiple		
Erodibility:		Se	evere			69.1 S	%		6.4	Mean	der Mi	igratio	n:	М	ultiple		
7.4 Comments:									6.5	Mean	der W	idth:			250 ft.	Rato: 3.9)
Route 44 bridge is	high and	channe	el is fairly	large,	, no ic	e jam	poten	tial.	6.6	Wave	length	1:			1200 ft.	Ratio: 18	.8
									<u>Ste</u>	<u>p 7. W</u>	/indshi	ield Su	<u>urvey</u>				
									7	'.1 Baı	nk Ero	sion:		14	72.42		ft
									7	.2 Baı	nk Hei	ght:		5			ft
									7	.3 Ice	/Debri	s Jam	Poten	tial: No	one		
4.1	4.2 4.3	5.1	5.2 5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	_		
															<u> </u>		
	2 2	1	0 1	2	2	1	2	2	1	1	2	2	0	22			
Low F	ligh High	Low	N.S. Low	High	High	Low	High	High	Low	Low	High	High	N.S.				

Mill Br	ook	K - E	Bas	in '	13							Pha	ase	1 -	Rea	ach	Sun	nmary	Repo	rt
Basin:		L	ower	Con	necti	icut						Reach	n ID:			M07		-	-	
Stream Nar	ne:	r	/ill Bi	rook								SGAT	Versi	on:		4.56				
Topo Maps Watershed:		١	VIND	SOR								Date I QA St	_ast E atus:	dited:		•	l, 03 201 hecks a	5 re complet	e	
Sub-waters	hed:											ls Rea	ach An	Impo	undme	ent?:	No			
<u>Step 1. Rea</u> 1.1 Reach [it the rea ridge.	ach br	eak E	ast of	the in	terse	ction	of See	ms Ro	d and	Rt-44	and co	ntinues up:	stream to t	he Bible
1.2 Towns:	We	est W	indso	r								5	Step 4.	Land	Cove	r - Rea	ach Hydr	ology		
1.3 Downst	ream L	atitud	e:		43.4	67238						2	l.1 Wa	tershe	ed		-			
1.3 Downst	ream L	ongitu	ude:		-72.4	471148							Histo	oric La	ind Co	over:			Forest	
Step 2. Stre	eam Ty	<u>pe</u>											Curr	ent Do	ominar	nt Lan	d Cover:		Forest	78.0 %
2.1 Elevatio 2.1 Elevatio	on Upst	tream					14 67						Curr I.2 Col		ıb-Dor	ninant	Land Co	over:	Urban	
2.1 Is Gradi	ient Ge	entle?				r I	No								ind Co	over::			Field	
2.2 Valley L	ength:					6,504.5	ft.		1.23	Mile	S		Curr	ont Dr	minar	ntlan	d Cover:		Urban	29.0 %
2.3 Valley S	Slope:					().7										Land Co		Forest	23.0 /0
2.4 Channe	l Leng	th:				7,534.5	ft.		1.43	Mile	S	12	Ripari			man		Left Bank		t Bank
2.5 Channe	l Slope	e:				0.	62 %						Domina		liei			51-100		-100
2.6 Sinuosit	ty:					1.	16					_	Sub-do		·+·			0-25		
2.7 Watersh	ned Are	ea:				27	7.9 Squ	uare N	liles							n 25 ft		2,106.0 ft		73.0 ft.
2.8 Channe	el Width	า:				56	6.7 fee	t					Groun					nimal	. 0	73.0 It.
2.9 Valley V	Vidth:					350).0 fee	t												
2.10 Confin	ement	Ratio	:			e	6.2						p <u>5. in</u> Flow l				lodificati	<u>ons</u>		
2.10 Confin	ement	Туре			Broa	ad								reguit		(010).	No	ne		
2.11 Refere	ence St	tream	Type		С								ype:							
Bedfor	rm:				Riffl	le-Pool							Jse: Bridge	as and		arte:		3	0.9	%
Sub-C	lass Sl	ope:			Non	ie							Bank			5113.		2,043.1	27.1	
Bed M	laterial				Gra	vel						0.0	Left:		0	1,631		light:	412.1	
Step 3. Basi	in Cha	rateris	ticts									51	Chan			,	.0 15	0	2.1	
3.1 Alluvial	Fan:				Non	e							Dredg		0	0		edging	2.1	70
3.2 Grade C	Control	:			Led	ge							-	-				caging		
3.3 Domina	nt Geo	ologica	al Mat	.:	Ice-	Contact			79.1	%						odificat			50	•
3.3 Sub-dor	m. Geo	ologica	al Mat	.:	Allu	vial						6.1	Berm	SARC	aas -	010:		445.7 ft.	59	-
3.4 Valley S	Slope L	eft:			Stee	әр							Dee	-l.				ne Side		
3.4 Valley S	Slope F	Right:			Stee	әр							Roa				3	3,571.6 ft.	874.1	
3.5 Soils														oad:				0.0 ft.	0.0	
Hydrolog	ic Gro	up:			Α				77.7	%			Bern					284.5 ft. 0.0 ft.	0.0	
Flooding					Non	ne/Rare			81.7	%			•	oved I					0.0	
Water Ta	able De	ep:			6.0				77.7	%			Devel					2,315.0 ft. Iltiple	0.0	π.
Water Ta	able Sh	allow			6.0				77.7	%			Chan					•		
Erodibility	y:				slig	ht			12.9	%			Mean		-	n:	Mu	Itiple		
7.4 Com													Mean						ato: 4.6	
Bible Hill R Partially br									oris ja	m risk	ζ.		Wave	0				620 ft. R	atio: 10.9	
r artially br	cacile	u uai	i iiiu	Teau	11 15 6		,once						<u>p 7. W</u>			<u>urvey</u>				
													'.1 Baı				84	5.637		ft
												7	7.2 Baı	nk Hei	ght:		4			ft
								<u></u>				7	.3 Ice				itial: Br i	idge		
	4.1	4.2	4.3	5.1	5.	2 5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total			
	1	2	2	0	0) 2	0	2	2	2	2	1	1	0	1	2	20	1		
		_						•	High											

Mill Br	rook	(- E	Basiı	า 13							Pha	ase	1 -	Rea	ach	Sun	nmary	Repor	t
Basin:		L	ower C	onnect	icut						Reach	n ID:			M08		-	-	
Stream Na	me:	Ν	/ill Bro	ok							SGAT	Versio	on:		4.56				
Topo Maps Watershed		v	VINDSO)R							Date I QA St	_ast Eo atus:	dited:		•	, 03 201 hecks a	5 re comple	te	
Sub-waters Step 1. Rea 1.1 Reach	ach Loc		E	Begins	at the Bi	ble Hil	l Rd b	ridge	and c			ach An ostrea	•			No eak Sou		Westgate Ro	d.
1.2 Towns:	We	est Wi	ndsor								5	Step 4.	Land	Cover	- Rea	ch Hydro	ology		
1.3 Downst	tream L	.atitud	e:	43.4	461268							.1 Wa				-			
1.3 Downst	tream L	.ongitu	ıde:	-72	490878							Histo	oric La	nd Co	ver:			Forest	
Step 2. Stre		-										Curre	ent Do	ominar	it Land	d Cover:		Forest	79.0 %
2.1 Elevatio	on Upst	ream				22 14						Curre		ıb-Dor	ninant	Land Co	over:	Urban	
2.1 Is Grad	lient Ge	entle?:			I	No					4			nd Co	ver			Forest	
2.2 Valley I	Length:				2,080.2	ft.		0.39	Mile	s						1 Cover			24 0 9/
2.3 Valley S	Slope:				().4										d Cover: Land Co	wer:	Forest Urban	34.0 %
2.4 Channe	el Lengi	th:			2,087.0	ft.		0.40	Mile	s	10	Ripari			mant		Left Bank		Bonk
2.5 Channe	el Slope	e:			0.	39 %								ner			<u>Leπ Bank</u>	<u>Right</u> 51-1	
2.6 Sinuosi	ity:				1.	00						Domina							
2.7 Waters	hed Are	ea:			25	5.1 Squ	uare M	liles			-	Sub-do			- OF #		51-100 0.0 ft	>10	JU 4.0 ft.
2.8 Channe	el Width	n:			54	1.1 fee	t					ength					imal	I. 19	4. U II.
2.9 Valley \	Width:				210).0 fee	t					Ground		•					
2.10 Confir	nement	Ratio	:		3	3.9										lodificatio	<u>ons</u>		
2.10 Confir	nement	Type		Ser	ni-confir	ned						Flow F	Regula	allon -	(010):	Na			
2.11 Refere	ence St	ream	Туре:	в								ype:				No	ne		
Bedfo	rm:			Rif	le-Pool						-	Jse:					•	•••	
Sub-C	Class SI	ope:		с								Bridge			ens:		0	0.0 %	
Bed M	laterial:			Co	oble						5.3	Bank	Armor	ing:	•	0 # D	0.0	0.0 %	
Step 3. Bas	in Char	ateris	ticts								5 4	Left:				.0 ft. R	-	0.0 ft	
3.1 Alluvial	Fan:			No	ne							Chanr		-	ning:	498		23.9 %	0
3.2 Grade	Control	:		Leo	lge							Dredg	-			No.	ne		
3.3 Domina	ant Geo	logica	I Mat.:	Allu	ıvial			57.1 %	6			p 6. Fl							_
3.3 Sub-do	m. Geo	logica	al Mat.:	Till							6.1	Berms	s & Ro	ads -	old:		,951.1 ft.	93.5	
3.4 Valley S	Slope L	eft:		Ver	y Steep							_					ne Side	Both Sides	-
3.4 Valley S	Slope R	light:		Ste	ер							Road				1	,951.1 ft.	0.0 ft	
3.5 Soils												Railr					0.0 ft.	0.0 ft	
Hydrolog	gic Grou	ıp:		в				57.1 %	6			Bern					0.0 ft.	0.0 ft	
Flooding	J:			Oc	casional			57.1 %	6			•	oved I				0.0 ft.	0.0 ft	
Water Ta	able De	ep:		3.0				57.1 %	6			Devel	•				0.0 ft.	0.0 ft	
Water Ta	able Sh	allow:		1.5				57.1 %	6			Chanr					ltiple		
Erodibilit	ty:			Мо	derate			42.9 %	6			Meano		•	ו:	Flo	od Chute		
7.4 Com	ments:										6.5	Meano	der W	idth:				Rato: 3.7	
0		wer r				vith ne	w abu	utment	ts ~36	ft		Wavel <u>p 7. W</u>	0		irvey		580 ft. F	Ratio: 10.7	
Only obse washed av	way du	ring T					vai		aur al		7	'.1 Bar	nk Ero	sion:		415	- 40E		
	vay du ris jam	ring T				lange											0.495		ft
washed av wide. Debr	vay du ris jam	ring T				lange					7	.2 Bar	nk Hei	ght:		4	0.490		
washed av wide. Debr	vay du ris jam	ring T				lange								•	Poten				ft ft
washed av wide. Debr	vay du ris jam	ring T		mains		5.4	5.5	6.1	6.2	6.3				•	Poten 7.3	4			
washed av wide. Debr	way dur ris jam an. 4.1 1	ring T risk I 4.2 2	4.3 1	mains (due to cl	5.4 2	0	6.1 2 High	0	2	7	'.3 lce/	/Debris 6.6 0	s Jam		4 tial: Bri Total 14			

Mill Bro	ook	(- E	Ba	si	n 1	3							Pha	ase	1 -	Rea	ach	Sur	nmary	Repor	t
Basin:		L	_ow	er (Conne	ectic	ut						Reach				M09		<i>y</i>		
Stream Nam	ne:		Mill										SGAT	Versi	on:		4.56				
Topo Maps: Watershed:		(CAV	EN	DISH	, WIN	NDSOF	R					Date I QA St		dited:		•	l, 03 20 [.] hecks a	15 are comple	te	
Sub-watersh	ned:												ls Rea	ach An	Impo	undme	ent?:	No)		
Step 1. Read	ch Loo	cation						ns at tl	ne rea	ch bre	ak so	outhea	st of	Westg	ate R	d and	conti	nues up	ostream to	the reach b	reak east
1.1 Reach D	Descrip	otion:			of Ch	urch	ill Rd.														
1.2 Towns:	We	est W	inds	or									5	Step 4.	Land	Cove	r - Rea	<u>ach Hyd</u>	rology		
1.3 Downstr	eam L	atitud	le:		4	13.45	58742						4	.1 Wa	tershe	ed					
1.3 Downstr	eam L	ongit	ude:		_	72.4	96311							Histo	oric La	nd Co	ver:			Forest	
Step 2. Strea	am Ty	<u>pe</u>												Curr	ent Do	ominar	nt Lan	d Cover	:	Forest	79.0 %
2.1 Elevation	n Upst	tream	:				7	64						Curr	ent Su	ıb-Dor	ninant	Land C	over:	Urban	
2.1 Elevation								22					4	.2 Coi	ridor						
2.1 Is Gradie			•					No						Histo	oric La	nd Co	ver::			Field	
2.2 Valley Le	-					8	3,480.2			1.61	Mile	S		Curr	ent Do	ominar	nt Lan	d Cover	:	Field	32.0 %
2.3 Valley S	•).5						Curr	ent Su	ıb-Dor	ninant	Land C	over:	Forest	
2.4 Channel	Ŭ					11	1,546.8			2.19	Mile	S	4.3	Ripari	an Bu	ffer		-	Left Bank	<u>Right</u>	Bank
2.5 Channel	•	e:					-	36 %					0	Domina	ant:				0-25	0-	25
2.6 Sinuosity								36					S	Sub-do	minar	nt:			26-50	26	-50
2.7 Watersh								5.0 Squ		liles			L	ength	w / les	ss tha	n 25 ft		6,480.0 ft	. 7,0 ⁻	19.0 ft.
2.8 Channel		า:						1.0 fee					4.4	Groun	d Wate	er Inpi	uts:	Ab	undant		
2.9 Valley W	/idth:						900).0 fee	t							•		Iodificat	ions		
2.10 Confine								6.7						Flow I				Ioumoat			
2.10 Confine	ement	Туре	:		١	/ery	Broad							ype:	- 0		()	No	one		
2.11 Referer	nce St	tream	Тур	e:	C	2								Jse:							
Bedforr	m:				F	Riffle	e-Pool							Bridge	es and	l Culve	erts:		4	0.6	%
Sub-Cla	ass Sl	lope:			١	lone)							Bank					3,418.6	29.6	
Bed Ma					C	Grav	el							Left:		U	1,929		Right:	1,489.61	
Step 3. Basir	n Chai	rateris	sticts	5									5.4	Chan	nel Str				377.3	63.9	
3.1 Alluvial F	Fan:				١	lone)							Dredg		U			one		
3.2 Grade C	ontrol	:			L	_edg	е							p 6. Fl	-		dificat				
3.3 Dominar	nt Geo	ologica	al Ma	at.:	4	Alluv	vial			82.4	%			Berms					1 476 2 #	12	0
3.3 Sub-dom	n. Geo	ologica	al Ma	at.:	ŀ	ce-C	ontact	:					0.1	Denns	s a Ru	aus -	010.		1,476.2 ft.		
3.4 Valley S	lope L	.eft:			ŀ	lilly								Book	۹.				<u>)ne Side</u>	Both Side	
3.4 Valley S	lope F	Right:			ŀ	lilly								Road					1,476.2 ft.	0.0 f	
3.5 Soils															oad:				0.0 ft. 0.0 ft.	0.0 f 0.0 f	
Hydrologi	c Gro	up:			E	3				91.4 9	%			Bern		Doth:					
Flooding:					C	Dcca	sional			82.4	%		<u> </u>	•	oved I				0.0 ft.	0.01	
Water Tal	ble De	ep:			3	8.0				82.4 9	%			Devel	•				207.5 ft.	0.0 f	t.
Water Tal	ble Sh	allow	:		1	.5				91.1 9	%			Chanr					ultiple		
Erodibility	<i>'</i> :				s	sligh	t			17.6 🤅	%			Mean		0	n:	M	ultiple		
7.4 Comm														Mean						ato: 4.1	
Due to low high at Rt 4									debri	s jamr	ning i	s like	-						610 ft. F	atio: 11.3	
nigh at Rt 4		ige ar		ale	пеід	ntsi		ige.						p 7. W			<u>irvey</u>				
													7	'.1 Bar	nk Ero	sion:		30	60.96		ft
													7	'.2 Bar	nk Hei	ght:		6			ft
													7	.3 Ice/	Debri	s Jam	Poten	ntial: Br	idge		
Г	4.1	4.2	4.	3 1	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	7		
, F				_			_												-		
	1	2	2		0 N.S.	0 N.S	2 . High	2 High	0 N.S.	1	0 N.S.	1 Low	2 High	1 Low	0	2 High	2 High	18			
	Low	High	Hig	nni	NI 52		- Luch			Low											

Mill Br	ook	(- E	Bas	siı	n 13	3							Pha	ase	1 -	Rea	ach	Su	mı	mary	Repo	ort
Basin:		L	owe	er C	Conne	cticut							React	n ID:			M10					
Stream Nar	ne:	r	Mill E	Bro	ok								SGAT	⁻ Versi	on:		4.56					
Topo Maps: Watershed:		(CAV	EN	DISH								Date I QA St	Last E tatus:	dited:		•	l, 03 20 hecks:		complet	e	
Sub-waters Step 1. Rea 1.1 Reach [ich Loo					each be h Mead			ne rea	ch bre	eak Ea	ast of		ach Ar :hill R i	•				lo am t	to the rea	ich point	Southwest
1.2 Towns:	We	est W	inds	or									5	Step 4.	Land	Cove	r - Rea	ach Hy	drolo	<u>ogy</u>		
1.3 Downsti	ream L	atitud	le:		43	3.45464	3						4	4.1 Wa	itershe	ed						
1.3 Downsti	ream L	ongit	ude:		-7	2.51453	37							Histo	oric La	and Co	over:				Forest	
Step 2. Stre	am Ty	<u>pe</u>												Curr	ent Do	ominar	nt Lan	d Cove	er:		Forest	82.0 %
2.1 Elevatio 2.1 Elevatio							771 764							Curr 1.2 Co		ub-Dor	minant	Land	Cov	er:	Urban	
2.1 Is Gradi	ent Ge	entle?					No								oric La	and Co	over::				Field	
2.2 Valley L	ength:					1,68).0 ft.			0.32	Mile	es						d Cove			Urban	33.0 %
2.3 Valley S	Slope:						0.4											Land		or.	Field	33.U 70
2.4 Channe	l Leng	th:				1,90	3.0 ft.			0.36	Mile	es	10	Ripari			man	Lanu		er. eft Bank		ht Bank
2.5 Channe	I Slope	e:					0.38	%						Domina		liter				26-50		26-50
2.6 Sinuosit	iy:						1.14							Sub-do						20-50 0-25		20-50 >100
2.7 Watersh	ned Ar	ea:					16.8	Squ	uare N	liles				_ength			n 25 fi			0-25 697.0 ft.		>100 221.0 ft.
2.8 Channe	l Width	า:					45.3	fee	t					Groun					linin			221.0 It.
2.9 Valley V	Vidth:					:	525.0	fee	t							•						
2.10 Confin	ement	Ratio	:				11.6							p <u>5. In</u> Flow				1odifica	ation	<u>S</u>		
2.10 Confin	ement	Туре	:		Ve	ery Bro	ad								reguia		(010).		lone			
2.11 Refere	nce St	tream	Тур	e:	С									Гуре:				r	Une	7		
Bedfor	m:				Ri	iffle-Po	ol							Jse: Bridge	ac and		orto			1	0.0) %
Sub-C	lass Sl	lope:			N	one								Bank			5113.			י 14.6	23.	
Bed M	aterial	:			G	ravel							0.0	Left:		ing.	228	.7 ft.	Rig		216.0	
Step 3. Basi	n Cha	rateris	ticts										5 /	Chan		niahta			71.4		35.2	
3.1 Alluvial	Fan:				N	one								Dredo		Ũ	Ŭ			, ging		2 70
3.2 Grade C	Control	:			N	one								-					ncu	99		
3.3 Domina	nt Geo	ologica	al Ma	at.:	A	lluvial				63.4	%			<u>p 6. F</u>				tions		40.0.4		
3.3 Sub-dor	n. Geo	ologica	al Ma	at.:	lc	e-Conta	act						6.1	Berm	S&RC	bads -	010:			49.8 ft.		5.5
3.4 Valley S	Slope L	.eft:			Hi	illy								Dee	d.					e Side	Both Sid	
3.4 Valley S	Slope F	Right:			St	teep								Roa					1,2	49.8 ft.) ft.
3.5 Soils															oad:					0.0 ft. 0.0 ft.) ft.) ft.
Hydrolog	ic Gro	up:			В					90.8	%			Berr		Dath						
Flooding:	:				0	ccasior	nal			63.4	%		~ ~	•	oved I				~	0.0 ft.) ft.
Water Ta	ble De	ep:			3.	0				63.4	%			Devel Chan	•				-	13.5 ft.	0.0) ft.
Water Ta	ble Sh	allow			1.	5				90.8	%								/lulti 	-		
Erodibility	y:				M	oderate	•			36.6	%			Mean		•	n:	N	/ligra	ation		
	7.4 Comments: Churchill Road bridge was jar													Mean							ato: 1.0	
Churchill R geometry i														Wave	0					45 ft. Ra	atio: 1.0	
due to high								agn	onaig	merm	ig is i			p 7. W			urvey					
														7.1 Bai					40.9	903		ft
													7	7.2 Bai	nk Hei	ght:		2	2			ft
													7	7.3 Ice	/Debri	s Jam	Poter	ntial: E	Bridg	ge		
	4.1	4.2	4.3	3	5.1	5.2 5	.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	al			
	1	2	2	╉	0	0	2	2	2	2	2	2	2	2	2	1	2	26	-			
						~ 1	- 1	-	-	- 1	-	. ~		. ~	. ~		. 4		· 1			

Mill Br	ook	(- E	Bas	in 1	3							Pha	ase	1 -	Rea	ach	Sum	mary	Repor	t
Basin:		L	.ower	Conr	nectio	ut						React				M11		<i>y</i>	•	
Stream Nan	ne:	r	Aill Br	ook								SGAT	Versi	on:		4.56				
Topo Maps: Watershed:		(CAVE	NDISI	4							Date I QA St	Last Eo tatus:	dited:		•	l, 03 201 hecks ai	5 re complet	e	
Sub-watersl	hed:											ls Rea	ach An	Impo	undme	ent?:	No			
<u>Step 1. Rea</u> 1.1 Reach D							ns at t ck Hill		ich bre	eak So	outhw	est of	Rush	mead	low R	d and	continue	es upstrea	m to the re	ach break
1.2 Towns:		est W	indso	r								ç	Step 4	land	Cove	· - Rea	ach Hydro	ology		
1.3 Downst					13 15	57935							4.1 Wa			1100	<u>ton nyan</u>	<u>Jiogy</u>		
1.3 Downsti						18403						-		oric La		vor			Forest	
Step 2. Stre		Ũ	ue.		-12.5	10403											d Cover:		Forest	83.0 %
2.1 Elevatio	-						314										Land Co	wor:	Urban	03.0 /0
2.1 Elevatio							771					,	1.2 Coi		10-001	man	Lanu Cu	iver.	Urban	
2.1 Is Gradi	ent Ge	entle?	:				No					-		oric La	nd Co	ver···			Forest	
2.2 Valley L	ength	:			:	3,889.7	ft.		0.74	Mile	es									EO O 0/
2.3 Valley S	lope:						1.1										d Cover: Land Co	wor:	Urban Forost	59.0 %
2.4 Channe	l Leng	th:			:	3,980.3	B ft.		0.75	Mile	es	4.0				mant	Lanu UC		Forest	Pork
2.5 Channe	I Slope	e:				1	.08 %						Ripari		ner			Left Bank		<u>Bank</u>
2.6 Sinuosit	y:					1	.02						Domina					26-50		00
2.7 Watersh	ned Ar	ea:				1	6.6 Sq	uare N	liles				Sub-do					0-25		one
2.8 Channe	l Width	า:				4	5.2 fee	t					ength					2,152.0 ft.		0.0 ft.
2.9 Valley V	Vidth:					15	0.0 fee	t					Groun		•			Indant		
2.10 Confin	ement	Ratio	:				3.3										lodificatio	ons		
2.10 Confin	ement	Туре	:		Semi	i-confi	ned					5.1	Flow I	Regula	ation -	(old):				
2.11 Refere					в							٦	Гуре:				Noi	ne		
Bedfor	m:				Riffle	-Pool							Jse:					-		
Sub-C	ass S	lope:			с								Bridge			erts:		0	0.0 ዓ	
Bed M	aterial	:			Cobb	ole						5.3	Bank		0			,458.8	36.7 9	
Step 3. Basi	n Cha	rateris	ticts										Left:			1,458		ght:	0.0 f	
3.1 Alluvial	Fan:				None	•							Chan		0	ning:	0.0		0.0 9	%
3.2 Grade C	Control	:			Ledg	e						5.5	Dredg	jing Hi	story:		Noi	ne		
3.3 Domina	nt Geo	ologica	al Mat	:	Till				91.0 °	%		<u>Ste</u>	<u>p 6. Fl</u>	oodpla	ain Mo	dificat	ions			
3.3 Sub-dor		-			Ice-C	contac	t					6.1	Berms	s & Ro	ads -	old:	3	,967.6 ft.	99.	7
3.4 Valley S		0			Verv	Steep											<u>O</u>	<u>ne Side</u>	Both Side	<u>s</u>
3.4 Valley S					-	Steep							Road	d:			3	,967.6 ft.	0.0 f	t.
3.5 Soils		5											Railr	oad:				0.0 ft.	0.0 f	t.
Hydrolog	ic Gro	up:			с				55.8 °	%			Bern	n:				0.0 ft.	0.0 f	t.
Flooding:		чр.				e/Rare			100.0 °				Impr	oved I	Path:			0.0 ft.	0.0 f	t.
Ŭ	Water Table Deep:								66.0			6.2	Devel	opmer	nt:			634.3 ft.	0.0 f	t.
Water Ta		•			6.0 6.0				66.0 °			6.3	Chan	nel Ba	rs:		Mu	ltiple		
Erodibility		lanon				Sever	e		100.0 °			6.4	Mean	der Mi	gratio	n:	Mu	ltiple		
	7.4 Comments:					0010.	•		100.0	/0		6.5	Mean	der W	idth:			N/A R	ato: 0.0	
NULL												6.6	Wave	length	:			N/A R	atio: 0.0	
												Ste	p 7. W	/indshi	ield Su	irvey				
													7.1 Bar			-	49.	7935		ft
												-	7.2 Bar	nk Hei	aht:		2			
															•	Det				ft
.						_											tial: No			
	4.1	4.2	4.3	5.1	5.2	2 5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total			
	4	2	2	0	0	2	0	0	2	1	1	0	0	0	0	0	11	1		
	1	~	~	0	0		1 V	-				I V		~	× .	~		1		

Mill Br	II Brook - Basin 13											Pha	ase	1 -	Rea	ach	Sun	nmary	Repo	rt
Basin:		L	ower	Conn	ectic	ut						Reach	n ID:			M12				
Stream Nan	ne:	M	/ill Bi	ook								SGAT	Versi	on:		4.56				
Topo Maps: Watershed:		C	CAVE	NDISH	I							Date I QA St	Last E tatus:	dited:		•	, 03 201 hecks a	5 re comple	te	
Sub-waters	ned:											ls Rea	ach An	Impo	undme	ent?:	No			
<u>Step 1. Rea</u> 1.1 Reach D						n begir t of Hu				eak So	outh o	f Shat	ttuck I	Hill Rd	and	contin	ues ups	stream to t	he reach b	reak
1.2 Towns:	Re	ading	, Wes	st Win	dsor							5	Step 4.	Land	Cover	· - Rea	<u>ch Hydr</u>	<u>ology</u>		
1.3 Downstr	eam L	atitud	e:		43.46	6469						2	4.1 Wa	tershe	d					
1.3 Downstr	eam L	ongitu	ude:		-72.52	2427							Histo	oric La	nd Co	ver:			Forest	
Step 2. Stre	am Ty	<u>/pe</u>											Curr	ent Do	minar	nt Land	d Cover:		Forest	84.0 %
2.1 Elevatio 2.1 Elevatio							50 14					Z	Curr 1.2 Co		b-Dor	ninant	Land Co	over:	Urban	
2.1 Is Gradi	ent Ge	entle?:				1	No							oric La	nd Co	ver::			Field	
2.2 Valley L	ength:				3	,413.8	ft.		0.65	Mile	S		Curr	ent Do	minar	nt Lano	d Cover:		Urban	54.0 %
2.3 Valley S							.1										Land Co	over:	Forest	
2.4 Channe	-				4	,066.6			0.77	Mile	S	4.3	Ripari					Left Bank		t Bank
2.5 Channe	•	э:				-	89 %						Domina					>100		100
2.6 Sinuosit	,						19					S	Sub-do	minan	t:			26-50	51	-100
2.7 Watersh							•	uare M	liles			L	ength	w / les	ss thai	n 25 ft	:	960.0 ft	. 4	27.0 ft.
2.8 Channe		า:				-	1.5 fee	•				4.4	Groun	d Wate	er Inpu	uts:	Min	imal		
2.9 Valley V).0 fee	t				Ste	n 5. In	strean	n Chai	nnel M	odificati	ons		
2.10 Confin							.2						Flow I					<u></u>		
2.10 Confin		• •			•	Broad						-	Гуре:	-			Sm	all Withdr	awal	
2.11 Refere		tream	Type		С	_							Jse:				Ot	her		
Bedfor						-Pool							Bridge	es and	Culve	erts:		3	1.5	%
Sub-Cl		•			None							5.3	Bank	Armor	ing:		2	2,183.4	53.7	%
Bed M					Grave	el							Left:			1,336.	4 ft. R	ight:	847.0	ft.
Step 3. Basi		rateris	TICIS									5.4	Chan	nel Str	aighte	ning:	1,0	83.1	26.6	%
3.1 Alluvial					None							5.5	Dredg	jing Hi	story:		Dre	edging		
3.2 Grade C			Mat		Ledg Alluv				E0 7 (Ste	p 6. Fl	oodpla	ain Mo	dificat	ions			
3.3 Dominai		-		-					52.7 S	/0		6.1	Berm	s & Ro	ads -	old:	1	,000.7 ft.	24	.6
3.3 Sub-dor		U	ai iviat			ontact											<u>0</u>	ne Side	Both Side	es
3.4 Valley S	•				Steep								Roa	d:				878.0 ft.	0.0	
3.4 Valley S 3.5 Soils	юре н	kight:			Steep)							Railr	oad:				0.0 ft.	0.0	ft.
	o Cro				в				75.3	07			Bern	n:				504.4 ft.	0.0	ft.
Hydrologi Flooding:		up:				sional			75.3 52.7 S				Impr	oved F	Path:		1	,000.7 ft.	0.0	ft.
Water Ta					3.0	Sionai			52.7 S			6.2	Devel	opmer	nt:		1	,237.7 ft.	0.0	ft.
Water Ta		•			3.0 1.5				67.5 °			6.3	Chan	nel Ba	rs:		Mu	ltiple		
Erodibility		allow.			1.5 Mode	rato			47.3 S			6.4	Mean	der Mi	gratio	n:	No	ne		
7.4 Comr					woue	ale			47.5	/0		6.5	Mean	der Wi	dth:			44 ft. F	Rato: 1.0	
Meander ge			oacts	selec	ted as	s "hiał	ו" eve	n thou	ıah sti	raight	enina	6.6	Wave	length				44 ft. F	Ratio: 1.0	
is <50% du	e to h	igh ro	ad ar	d dev	elopr	nent c	orrido	r encr	oachr	nent.	U	<u>Ste</u>	p 7. W	/indshi	eld Su	<u>irvey</u>				
												7	7.1 Bai	nk Ero	sion:	-	412	2.75		ft
												7	7.2 Baı	nk Hei	aht:		4			
															0	Poten	tial: Bri	dge		ft
]	4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total	7		
	1 Low	2 Hiab	2 Hiah	1 Low	0 N.S.	2 High	2 High	2 High	2 High	2 Hiah	2 High	0 N.S.	2 High	2 Hiab	1 Low	1 Low	24	1		
	Low	rign	High		14.5	.l uiðu	Inigu	riign	rign	nıyn	nigh	14.5.	riign	High	Low	LOW				

Mill Br	ook	(- E	Bas	ir	า 1	3							Pha	ase	1 -	Rea	ach	Sur	nn	nary	Repo	rt
Basin:		I	owe	r C	onne	ectic	ut						Reac	n ID:			M13			_	-	
Stream Nar	ne:	ľ	Mill B	roo	ok								SGAT	Versi	on:		4.56					
Topo Maps Watershed:		(CAVE	N	DISH								Date I QA St	Last E	dited:		•	l, 03 20 hecks :		complete	e	
Sub-waters	hed:												ls Rea	ach An	n Impo	undmo	ent?:	No	0			
							h begin Agony			ich bre	eak So	outhwo	est of	Hurri	cane I	Hill Ro	d and	continu	ies u	ıpstrean	n to the re	ach point
1.2 Towns:	Re	ading	J										5	Step 4.	. Land	Cove	r - Rea	ach Hyd	Irolog	<u>y</u>		
1.3 Downst	ream L	atituc	le:		4	13.47	2408						2	I.1 Wa	tershe	d		-	-			
1.3 Downst	ream L	ongit	ude:		-	72.53	34192							Histo	oric La	nd Co	over:				Forest	
Step 2. Stre	am Ty	/pe												Curr	ent Do	ominai	nt Lan	d Cover	:		Forest	85.0 %
2.1 Elevatio	n Ups	tream						36 50						Curr I.2 Co		ıb-Dor	ninant	Land C	Cover	r:	Urban	
2.1 Is Gradi	ap 1. Reach Location Reach Description:Th SoReach Description:Towns: ReadingDownstream Latitude:Downstream Longitude:Downstream Longitude:Downstream Longitude:Downstream Longitude:Downstream:Elevation Upstream:Elevation Downstream:Is Gradient Gentle?:Valley Length:Valley Slope:Channel Length:Channel Slope:Channel Slope:						I	No							oric La	nd Co	over::			·	commercia	1
2.2 Valley L	Reach Description: Towns: Reading Downstream Latitude: Downstream Longitude: p 2. Stream Type Elevation Upstream: Elevation Downstream: Is Gradient Gentle?: Valley Length: Valley Slope: Channel Length: Channel Slope: Sinuosity: Watershed Area: Channel Width: Valley Width: 0 Confinement Ratio: 0 Confinement Type: 1 Reference Stream Type: Bedform: Sub-Class Slope: Bed Material: p 3. Basin Charateristicts						,108.8	ft.		1.35	Mile	S						d Cover			Urban	41.0 %
2.3 Valley S	Slope:							1.2										Land C		. .	Forest	41.0 /0
2.4 Channe	l Leng	th:				7	,217.4	ft.		1.37	Mile	S	12				man	Lanu C		ft Bank		t Bank
2.5 Channe	I Slope	e:					1.	18 %						Ripari Domina		liei				0-25		100
2.6 Sinuosit	iy:						1.	02						Sub-do		.+-				0-23 1-100		-25
2.7 Watersh	ned Ar	ea:					1	5.3 Sq	uare N	liles				_ength			n 25 ft			996.0 ft.		-23 46.0 ft.
2.8 Channe	l Widtl	n:					43	3.5 fee	et					Groun					, ound			40.0 It.
2.9 Valley V	Vidth:						220).0 fee	et							•						
2.10 Confin	ement	Ratio	:				į	5.1						<u>p 5. In</u> Flow l				1odificat	lions			
2.10 Confin	ement	Туре			1	Varro	w								Regula	- 11011	(010).	NI	one			
2.11 Refere	nce S	tream	Туре	:	E	3								Гуре:				INC	one			
Bedfor	m:				F	Riffle	-Pool							Jse: Bridge	00.000	Cuby	orto		2	,	0.9	0/
Sub-C	lass S	lope:			c	:								Bank			5115.		2 3.46		48.0	
Bed M	aterial	:			C	Cobb	le						5.5	Left:		ing.	3,024		3,40 Right		436.6	
Step 3. Basi	n Cha	rateris	ticts										51	Chani		aighte)0.4		430.0	
3.1 Alluvial	Fan:				1	None								Dredg		Ũ	Ũ		redgi	ina	0.5	70
3.2 Grade C	Control	l:			L	_edge	e							-					cuy	ing		
3.3 Domina	nt Geo	ologica	al Mat	t.:	ŀ	ce-C	ontact	:		50.6 °	%			<u>p 6. Fl</u>						"		-
3.3 Sub-dor	n. Geo	ologica	al Ma	t.:	٦	ГіII							6.1	Berm	S&RC	ads -	010:		-,	2.6 ft.	92 Dath Old	
3.4 Valley S	Slope L	_eft:			۱	/ery	Steep							Dee	. ام					Side	Both Side	
3.4 Valley S	Slope F	Right:			۱	/ery	Steep							Roa					•	6.7 ft.	685.9	
3.5 Soils															road:					0.0 ft.	0.0	
Hydrolog	ic Gro	up:			E	3				74.9 °	%			Bern		D - (1-				0.0 ft.	0.0	
Flooding					1	None	/Rare			81.0 °	%			•	oved					0.0 ft.	0.0	
Water Ta	ble De	ep:			2	2.5				59.2 °	%			Devel	•				•	0.5 ft.	400.8	ft.
Water Ta	ble Sh	nallow			1	1.5				78.2 °	%			Chan					ultip	le		
Erodibility	y:				۱	/ery	Sever	e		81.0 °	%			Mean		•	n:	No	one			
7.4 Com														Mean							ato: 1.0	
Meander ge is <50% du														Wave	0					44 ft. Ra	atio: 1.0	
ice jam pot	ential	from	two	bri	dges	and	narro	w enc	roach	ed cha	annel.			<u>p 7. W</u>			<u>urvey</u>					
Private brid	dge in	uppe	r rea	ch	may	have	e jamn	ned di	uring	T.S. Ire	ene.		7	7.1 Baı	nk Ero	sion:		45	51.51	4		ft
													7	7.2 Baı	nk Hei	ght:		4				ft
													7	7.3 Ice	/Debri	s Jam	Poten	itial: Bi	ridge	e		
	4.1	4.2	4.3	Т	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	Π			
				1			1	L	 					 	I		I —	I	_			
	1	2	2	Т	0	0	2	1	2	2	2	2	0	2	2	1	1	22				

Mill Bro	ok	: - E	Bas	iI	n 1;	3							Pha	ase	1 -	Rea	ach	Sum	mary	Repo	rt
Basin:		L	.owe	r C	conne	ecticu	ıt						Reach				M14			-	
Stream Name	e:	N	/ill B	ro	ok								SGAT	Versi	on:		4.56				
Topo Maps: Watershed:		V	voo	DS	тос	K SO	UTH,	CAVE	NDISI	1			Date I QA St		dited:		•	l, 03 2015 hecks ar	5 re complet	e	
Sub-watershe	ed:												ls Rea	ach An	i Impo	undme	ent?:	No			
Step 1. Reac	h Loc	ation								ch bre	ak S	outh c	of Ago	ny Hil	l Rd a	nd co	ntinue	es upstre	am to the	reach brea	ak south of
1.1 Reach De	escrip	tion:		t	he W	hitmo	ore Ro	d cros	sing.												
1.2 Towns:	Re	ading	I										5	Step 4.	Land	Cove	r - Rea	ach Hydro	ology		
1.3 Downstre	am L	atitud	e:		4	13.484	1702						4	l.1 Wa	itershe	ed					
1.3 Downstre	am L	ongitu	ude:		-	72.55	2562							Histo	oric La	and Co	ver:			Forest	
Step 2. Strea	<u>m Ty</u>	<u>pe</u>												Curr	ent Do	ominar	nt Lano	d Cover:		Forest	85.0 %
2.1 Elevation 2.1 Elevation							1,0 9	38 36					4	Curr I.2 Co		ub-Dor	ninant	Land Co	ver:	Urban	
2.1 Is Gradier	nt Ge	ntle?:					1	No						Histo	oric La	and Co	ver::			Field	
2.2 Valley Le	ngth:					6,	053.5	ft.		1.15	Mile	es		Curr	ent Do	ominar	nt Lano	d Cover:		Forest	38.0 %
2.3 Valley Slo	ope:						1	1.7										Land Co	ver:	Urban	
2.4 Channel I	Lengt	h:				7,	498.5	ft.		1.42	Mile	es	4.3	Ripari					Left Bank		t Bank
2.5 Channel S	Slope	:					1.	37 %						Domina		inor			>100		6-50
2.6 Sinuosity:								24					5	Sub-do	minar	nt:			0-25		100
2.7 Watershe								•	uare N	liles			L	ength	w / le	ss tha	n 25 ft	.:	1,867.0 ft.	5	93.0 ft.
2.8 Channel \		:						5.7 fee						0		er Inpi			ndant		
2.9 Valley Wi								5.0 fee	t							•		lodificatio	ns		
2.10 Confiner	ment	Ratio	:					3.3								ation -		loameatio	<u>115</u>		
2.10 Confiner		•••				•	Broad							ype:	U		. ,	Nor	ne		
2.11 Referen		ream	Туре	:	C									Jse:							
Bedform					F	Riffle-	Pool								es and	l Culve	erts:		2	1.2	%
Sub-Cla		•				lone								Bank				1.	430.2	19.1	%
Bed Mat					C	Grave								Left:		5	684.		ght:	745.6	
Step 3. Basin		ateris	ticts										5.4	Chani	nel Str	raighte	nina:	2,14	-	28.6	%
3.1 Alluvial Fa						lone								Dredg		Ũ	Ũ	Dre	dging		
3.2 Grade Co						edge								-			dificat	ions			
3.3 Dominant		-				Alluvi	al			81.2	%					bads -			788.6 ft.	50	5
3.3 Sub-dom.			al Ma	t.:		Fill							0.1	Donna		2005	olu.		ne Side	Both Side	-
3.4 Valley Slo					S	Steep								Roa	d٠				788.6 ft.	<u>0.0</u>	
3.4 Valley Slo	ope R	ight:			S	Steep									oad:			υ,	0.0 ft.	0.0	
3.5 Soils														Bern					181.5 ft.	0.0	
Hydrologic	Grou	ıp:				3				86.0					oved I	Path:			0.0 ft.	0.0	
Flooding:							sional			81.2			6.2	Devel					487.9 ft.	0.0	
Water Tab						3.0				81.2				Chan	•				tiple		
Water Tabl		allow:				.5				82.9						igratio	n.		tiple		
Erodibility:					S	slight				18.8	%			Mean		0		mai	•	ato: 6.4	
7.4 Comme		1 brid	lao fr	, ile	d du	rina '	TS Iro	no CI	oaran	oo liko	hy mi	ich		Wave						atio: 29.4	
Baily's Mills higher than															0	ield Sι	ILVOV		1050 n. n.	allo. 23.4	
change in va														<u>p 7. w</u> 7.1 Bai			<u>voy</u>	240	4.31		
confluence.																		-			ft
														'.2 Baı		0	_	5	_		ft
													7	.3 Ice	/Debri	s Jam	Poten	tial: Brid	dge		
[4.1	4.2	4.3	Т	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total]		
	1	2	2	T	0	0	1	2	2	2	1	2	2	0	2	2	1	22	1		
	Low	High		۱ ۱	N.S.	N.S.	Low	High		High	Low		High	N.S.		High	Low				
LL			•				•					•	•	•	•	•	•		•		

Mill Bro	ook	(- E	Ba	si	n 1	3								Pha	ase	1 -	Rea	ach	Su	m	mary	Rep	ort	
Basin:		I	Low	/er	Conr	nect	icut							Reach				M15						
Stream Nam	ne:	I	Mill	Bro	ook									SGAT	Versi	on:		4.56						
Topo Maps: Watershed:		١	NO	OD	STO	CKS	SOUTI	1						Date I QA St	Last E	dited:		•	l, 03 2 hecks:		e complet	e		
Sub-watersh	ned:													ls Rea	ach An	i Impo	undme	ent?:	١	No				
Step 1. Rea	ch Lo	cation								he rea	ach br	eak S	outh	of Whi	itmore	Rd. a	and ex	tends	s upstr	rean	n to the r	each bre	ak Eas	st of
1.1 Reach D	Descrip	otion:			Mou	ntai	n Viev	v Driv	e.															
1.2 Towns:	Re	ading	3											5	Step 4.	Land	Cove	r - Rea	ach Hy	drol	ogy			
1.3 Downstr	eam L	atituc	le:			43.5	501038	3						2	4.1 Wa	itershe	ed							
1.3 Downstr	eam L	ongit	ude	:		-72.	56299	6							Histo	oric La	and Co	ver:				Forest		
Step 2. Stre	am Ty	<u>/pe</u>													Curr	ent Do	ominar	nt Lan	d Cove	ər:		Forest	8	35.0 %
2.1 Elevation 2.1 Elevation								,121 ,038						2	Curr I.2 Co		ub-Dor	ninan	t Land	Cov	er:	Urban		
2.1 Is Gradie	ent Ge	entle?	:					No							Histo	oric La	and Co	ver::				Field		
2.2 Valley L	ength	:					4,625	.0 ft.			0.88	Mile	es		Curr	ent Do	ominar	nt I an	d Cove	ər:		Forest	2	26.0 %
2.3 Valley S	lope:							1.8											t Land		er:	Urban	-	
2.4 Channel	Leng	th:					5,311	.5 ft.			1.01	Mile	es	4.3	Ripari						.eft Bank	-	ght Bar	nk
2.5 Channel	•	e:						1.56	%						Domina					-	26-50	<u>. ()</u>	<u>26-50</u>	
2.6 Sinuosit	-							1.15							Sub-da		nt:				0-25		20 00 51-100	
2.7 Watersh	ed Ar	ea:						3.1	Sqι	are N	liles				_ength			n 25 fi	t.:		1,408.0 ft		852.0	
2.8 Channel	Width	n:						21.4							Groun						ndant			
2.9 Valley W	/idth:						3	25.0	feet								•		/lodifica					
2.10 Confine								15.2							Flow I				nounice	alioi	15			
2.10 Confine	ement	Туре				Ver	y Broa	ad							Гуре:	regui		(0.0).	ç	Sma	II Withdra	awal		
2.11 Refere	nce S	tream	Ту	oe:		С									Jse:					Othe				
Bedfor	m:					Riff	le-Poo	bl							Bridge	es and	Culve	erts:			4	1	.8 %	
Sub-Cl	ass S	lope:				Nor	ne								Bank					2	79.7		.3 %	
Bed Ma	aterial	:				Gra	vel							0.0	Left:		nıg.	127	.4 ft.	_			.4 ft.	
Step 3. Basir	n Cha	rateris	stict	<u>s</u>										54	Chan		aighte			2.49			.0 %	
3.1 Alluvial I	Fan:					Nor	ne								Dredg		-	-		None				
3.2 Grade C	ontrol	l:				Led	lge								p 6. Fl						-			
3.3 Dominar	nt Geo	ologica	al M	lat.:		Allu	ivial				77.9 °	%			Berm:				<u>110115</u>		0.0 ft.		0.0	
3.3 Sub-don		U	al N	lat.:		Till								0.1	Denni	Saru	Jaus -	olu.		00		Poth S		
3.4 Valley S	lope L	_eft:				Ste	ер								Roa	d					<u>e Side</u> 0.0 ft.	Both S	.0 ft.	
3.4 Valley S	lope F	Right:				Ste	ер									o. road:					0.0 ft.		.0 ft.	
3.5 Soils															Bern						0.0 ft.		.0 ft.	
Hydrologi		up:				в					75.1 °					roved	Dath				0.0 ft.		.0 ft.	
Flooding:						Oco	casion	al			63.8			6.2	Devel						275.3 ft.		.0 ft.	
Water Ta		•				3.0					63.8 °				Chan	•				∡ Side		U	. u II.	
Water Ta		nallow	:			1.5					64.9 °							<u>.</u> .						
Erodibility	<i>'</i> :					slig	ht				22.1 °	%			Mean Mean		0	11.	n	Mult	•	oto: 4 4		
7.4 Comn																						ato: 1.0		
Undersized	culve	ert at	sio	pe 1	rans	itio	n nas	some	ICe	e jam	poten	tial.			Wave	0		10.00			∠1 it. R	atio: 1.0	,	
															p 7. W			<u>irvey</u>		400				
															7.1 Bai					132			ft	
														7	7.2 Baı	nk Hei	ght:		2	2			ft	:
														7	7.3 Ice	/Debri	s Jam	Poter	ntial: C	Culv	ert			
	4.1	4.2	4	.3	5.1	5	.2 5.	3 5	.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tot	al				
	1	2		2	1	\vdash			2	0	0	1	1	2	2	2	2	1	20	\neg				
	ı Low	∠ High			Low					N.S.	Unk.	-			_		∠ High			,				

Mill Bro	ook	- E	Bas	siı	n 13	3							Pha	ase	1 -	Rea	ach	Su	Im	mary	Repo	ort
Basin:		L	owe	er C	Conne	cticu	ıt						Reach				M16				•	
Stream Nam	ne:		/ill E				-						SGAT	Versi	on:		4.56					
Topo Maps: Watershed:		V	voo	DS	тоск	(SO	UTH						Date I QA St	Last Eo atus:	dited:		•	l, 03 2 heck:		e complet	e	
Sub-watersh Step 1. Read	ch Loc				This ro Rd.	each	is be	tweer	Ston	e Chir	nney				•	undme nd by			No oreal	ks North a	and Sout	h of Newton
1.2 Towns:		adinc											ç	Sten 4	Land	Cover	r - Rea	ach Hi	drol	oav		
1.3 Downstr					43	3.512	006						_	.1 Wa			- NOC		<u>vui ui</u>	ogy		
						2.56							2			u und Co	vor				Forest	
1.3 Downstre Step 2. Strea		Ũ	uue.		-7	2.500	0404									ominar		d Cov	or		Forest	88.0 %
2.1 Elevation 2.1 Elevation	n Upst	ream					1,3 [.] 1,1:	11 21					2		ent Su	ıb-Dor				ver:	Urban	00.0 /6
2.1 Is Gradie	ent Ge	ntle?:					١	lo						Histo	oric La	ind Co	ver::				Forest	
2.2 Valley Le	ength:					4,	615.0	ft.		0.87	Mile	S		Curr	ent Do	ominar	nt Lan	d Cov	er:		Forest	42.0 %
2.3 Valley S	lope:						4	.1								ub-Dor				er:	Field	
2.4 Channel	Lengt	th:				5,	029.0	ft.		0.95	Mile	S	4.3	Ripari	an Bu	ffer			L	eft Bank		ht Bank
2.5 Channel	Slope	e:					3.	79 %						Domina					-	>100		>100
2.6 Sinuosity	·						1.0						5	Sub-do	minar	nt:				0-25	:	26-50
2.7 Watersh								2 .6 Squ		liles			L	ength	w / les	ss thai	n 25 ft	.:		900.0 ft.		410.0 ft.
2.8 Channel		1:						.8 fee					4.4	Groun	d Wate	er Inpu	uts:	A	۱bur	ndant		
2.9 Valley W	/idth:							. 0 fee	t							n Chai		Indific	ation	ne		
2.10 Confine	ement	Ratio					5	5.0						•		ation -		louine		15		
2.10 Confine	ement	Туре			Na	arrov	N							ype:	U		()	1	Non	e		
2.11 Referer		ream	Туре	e:	В									Jse:								
Bedforr	n:				Ri	iffle-	Pool								es and	l Culve	erts:			0	0.	0%
Sub-Cla	ass Sl	ope:			N	one								Bank					1	48.4	-	0%
Bed Ma					C	obble	е							Left:			148	.4 ft.	Rig	iht:		D ft.
Step 3. Basir	n Char	ateris	ticts										5.4		nel Str	aighte			786.0			6 %
3.1 Alluvial F						one								Dredg		-			Non			
3.2 Grade C						edge									Ū	ain Mo	dificat					
3.3 Dominar	nt Geo	logica	al Ma	ıt.:	A	lluvia	al			40.2 °	%		_			ads -		10113		0.0 ft.		0.0
3.3 Sub-dom		0	al Ma	at.:			ontact						0.1	Denna		aus	oiu.		On	<u>e Side</u>	Both Si	
3.4 Valley S						-	steep							Road	4.					0.0 ft.		<u>005</u> 0 ft.
3.4 Valley S	lope R	light:			Ve	ery S	steep								oad:					0.0 ft.		D ft.
3.5 Soils														Bern						0.0 ft.		D ft.
Hydrologi	c Grou	ıp:			В					76.1 °					oved I	Path				0.0 ft.		D ft.
Flooding:						one/l	Rare			59.8 [°]			62	Devel						0.0 ft.		D ft.
Water Tal		•			3.					40.2				Chan	•				Mult		0.	U II.
Water Tal		allow			1.	5				73.9						igratio	<u>.</u> .			d Chute		
Erodibility	:				Se	evere	e			59.8 °	%			Mean		•	1.	1	FIUU		ato: 0.0	
7.4 Comm																					atio: 0.0	
Meander ge Valley may														Wave	0		171/01/			N/A K	allo: 0.0	
												,	<u> 310</u>			<u>ield Su</u>	<u>irvey</u>		4000			
														'.1 Bar					1689 ,	.32		ft
													7	'.2 Bar	nk Hei	ght:		4	4			ft
													7	.3 Ice	/Debris	s Jam	Poter	ntial: I	Not	Evaluated	ł	
ſ	4.1	4.2	4.3	3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	To	tal			
	1 Low	0 N.S.	2 Hig		0	0 N.S.	0 N.S.	1 Low	0 N.S.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N/A	0 N/A	2	0 N.S.	7	'			
. I		NIC		- I						ملسلت												

Basin: Stream Nam				3							Pha	ase	1 -	Rea	ach	Su	m	mary	Repo	ort	
		Lower	Conne	ecticut							Reach				M17				- 1- 1	-	
	ne:	Mill Bro		onout							SGAT	Versi	on:		4.56						
Topo Maps: Watershed:		WOOD	STOCI	k sou	тн						Date I QA St	Last Eo	dited:		•	, 03 2 hecks		e complet	e		
Sub-watersh	ned:										ls Rea	ach An	Impo	undme	ent?:	I	No				
<u>Step 1. Rea</u>	ch Locatio	<u>n</u>	This re	each is	s bo	und b	y the	reach	break	s up a	and do	wn st	ream	of the	Ston	e Chii	nne	y Rd cros	ssing.		
1.1 Reach D	Description	:																			
1.2 Towns:	Readin	g									5	Step 4.	Land	Cover	- Rea	<u>ch Hy</u>	/drol	ogy			
1.3 Downstr	eam Latitu	de:	4	3.5253	93						2	I.1 Wa	tershe	ed							
1.3 Downstr	eam Longi	tude:	-7	72.571	604							Histo	oric La	nd Co	ver:				Forest		
Step 2. Stre	<u>am Type</u>											Curr	ent Do	minar	nt Lano	d Cov	er:		Forest	91	.0 %
2.1 Elevatio 2.1 Elevatio					1,7 1,3						Z	Curr I.2 Coi		ıb-Dor	ninant	Land	Cov	ver:	Urban		
2.1 Is Gradi	ent Gentle	?:			1	No						Histo	oric La	nd Co	ver::				Forest		
2.2 Valley L	ength:			5,3	50.0	ft.		1.01	Mile	es		Curr	ent Do	ominar	nt I and	d Cov	er:		Forest).0 %
2.3 Valley S	lope:				8	8.0								ıb-Dor				/er:	Urban		
2.4 Channel	Length:			6,1	48.6	ft.		1.16	Mile	es	43	Ripari				Luna		<u>_eft Bank</u>		ght Bank	<i>x</i>
2.5 Channel	Slope:				6.	96 %						Domina					<u> </u>	>100	<u>1XI</u>	>100	7
2.6 Sinuosit	y:				1.	15						Sub-do		. . .				2100		2100	
2.7 Watersh	ed Area:				1	.6 Sq	uare N	liles				ength			n 25 ft			0.0 ft		0.0 ft	t
2.8 Channel	Width:				16	5.3 fee	t					Groun					/inir			0.0 1	
2.9 Valley W	/idth:				65	5.0 fee	t							•		-					
2.10 Confine	ement Rati	o:			4	. 0						<u>p 5. In</u>				odific	atior	<u>15</u>			
2.10 Confine	ement Typ	e:	S	emi-co	onfir	ned						Flow I	xeguia	- 11011	(010).		Non	•			
2.11 Refere	nce Stream	n Type:	Α	`								ype:					NON	e			
Bedfor	m:		S	tep-Po	ool							Jse:		Culve				4	0	2 0/	
Sub-Cl	ass Slope:		Ν	lone								Bridge			ens:			1	-	2 %	
Bed Ma	aterial:		В	Soulde	r						5.3	Bank	Armor	ing:	•	• "		0.0	-	.0%	
Step 3. Basii	n Charater	isticts										Left:	1.01			0 ft.		jnt:		. 0 ft.	
3.1 Alluvial I	Fan:		Ν	lone								Chan		0	ning:		0.0	_	0.	.0 %	
3.2 Grade C	ontrol:		Ν	lone								Dredg	-	-			Non	e			
3.3 Dominai	nt Geologia	al Mat.:	т	ïll				69.6	%			<u>p 6. Fl</u>				<u>ions</u>					
3.3 Sub-don	n. Geologi	cal Mat.:	lo	ce-Cor	ntact						6.1	Berms	s & Ro	ads -	old:			0.0 ft.		0.0	
3.4 Valley S	lope Left:		v	ery St	еер												On	<u>e Side</u>	Both S		
3.4 Valley S	lope Right	:		xt. Ste	-							Road	d:					0.0 ft.	0.	. 0 ft.	
3.5 Soils					•							Railr	oad:					0.0 ft.	0.	. 0 ft.	
Hydrologi	c Group:		с	;				69.6	%			Bern	า:					0.0 ft.	0.	. 0 ft.	
Flooding:			N	lone/R	are			100.0				Impr	oved F	Path:				0.0 ft.	0.	. 0 ft.	
Water Ta	ble Deep:		2	.0				69.2			6.2	Devel	opmer	nt:				0.0 ft.	0.	. 0 ft.	
	ble Shallov	v:	1	.0				69.2			6.3	Chan	nel Ba	rs:		I	Not	Evaluated	t		
Erodibility				/ery Se	evere)		100.0			6.4	Mean	der Mi	gratio	า:	I	Non	е			
7.4 Com											6.5	Mean	der Wi	idth:				N/A R	ato: 0.0)	
NULL											6.6	Wave	length	:				N/A R	atio: 0.0	1	
											<u>Ste</u>	p 7. W	indshi	eld Su	irvey						
											7	.1 Bar	nk Ero	sion:		(0			ft	
											7	.2 Bar	nk Heid	aht:		I	Νο Γ	Data			
														•	Deter				-	ft	
		<u> </u>				— —	r –	r -	-	r -								Evaluated	L		
	4.1 4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	To	tal				
	0 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1					
	N.S. Lov	v N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	Unk.	N.S.	N.S.	N.S.	N/A	N/A	N.S.	N.S.						

Mill Brook -	Basir	า 13							Pha	ase	1 -	Rea	ach	Sun	marv	Repo	rt
Basin:	Lower C	onnectio	cut						Reach				M18		, J	- 1	
Stream Name:	Mill Broo		out						SGAT	- Versi	on:		4.56				
Topo Maps: Watershed:	WOODS	TOCK S	OUTH						Date I QA St	Last Eo tatus:	dited:		•	, 03 201 hecks a	5 re complet	te	
Sub-watershed: Step 1. Reach Location	<u>n</u> T	his reac	h is bo	und b	y the	reach	break			ach An I Sout l	•			No Corners			
1.1 Reach Description	1:																
1.2 Towns: Readi	ng								5	Step 4.	Land	Cover	- Rea	ch Hydro	ology		
1.3 Downstream Latit	ude:	43.5	32228						4	1.1 Wa	tershe	d					
1.3 Downstream Long	itude:	-72.5	586202							Histo	oric La	nd Co	ver:			Forest	
Step 2. Stream Type										Curr	ent Do	minar	it Land	d Cover:		Forest	94.0 %
2.1 Elevation Upstrea 2.1 Elevation Downst			2,2 1,7						2	Curr 1.2 Coi		b-Don	ninant	Land Co	over:	Urban	
2.1 Is Gradient Gentle	?:		I	No						Histo	oric La	nd Co	ver::			Forest	
2.2 Valley Length:		-	5,950.0	ft.		1.13	Mile	es		Curr	ent Do	minar	it Land	d Cover:		Forest	77.0 %
2.3 Valley Slope:			8	8.9										Land Co	over:	Urban	
2.4 Channel Length:			6,500.0	ft.		1.23	Mile	es	43	Ripari			miant	Land Ot	Left Bank		t Bank
2.5 Channel Slope:			8.	17 %						Domina					>100	•	100
2.6 Sinuosity:			1.	09						Sub-do		+·			2100	-	100
2.7 Watershed Area:			(0.6 Sq	uare N	liles				_ength			n 25 ft		0.0 ft		0.0 ft.
2.8 Channel Width:			10	0.6 fee	t					Groun					imal	•	0.0 11.
2.9 Valley Width:			40	0.0 fee	t							•					
2.10 Confinement Ra	io:		3	3.8										odificatio	<u>ons</u>		
2.10 Confinement Typ	e:	Sem	i-confir	ned						Flow I	Regula		(010).	No	no		
2.11 Reference Strea	т Туре:	Α								Гуре:				NO	ne		
Bedform:		Step	-Pool							Jse:		Culur					0/
Sub-Class Slope	:	None	е							Bridge			ens:		1	0.2	
Bed Material:		Boul	lder						5.3	Bank	Armor	ing:	•	• " •	0.0	0.0	
Step 3. Basin Charate	risticts									Left:	1.01				ight:	0.0	
3.1 Alluvial Fan:		None	е							Chan		0	ning:	0.0		0.0	%
3.2 Grade Control:		None	е							Dredg	-			No	ne		
3.3 Dominant Geolog	cal Mat.:	Till				100.0	%		<u>Ste</u>	<u>p 6. Fl</u>	oodpla	ain Mo	dificat	ions			
3.3 Sub-dom. Geolog	cal Mat.:	Alluv	vial						6.1	Berms	s & Ro	ads -	old:		0.0 ft.	0	.0
3.4 Valley Slope Left:		Ext.	Steep											<u>0</u>	<u>ne Side</u>	Both Side	<u>es</u>
3.4 Valley Slope Righ	t:	Ext.	Steep							Road	d:				0.0 ft.	0.0	
3.5 Soils			•							Railr	oad:				0.0 ft.	0.0	ft.
Hydrologic Group:		с				52.6 [°]	%			Bern	n:				0.0 ft.	0.0	ft.
Flooding:		None	e/Rare			100.0				Impr	oved F	Path:			0.0 ft.	0.0	ft.
Water Table Deep:		2.0				46.0 [°]	%		6.2	Devel	opmer	nt:			0.0 ft.	0.0	ft.
Water Table Shallo	w:	1.0				52.5 °	%		6.3	Chan	nel Ba	rs:		No	t Evaluate	d	
Erodibility:			Severe	е		100.0 [°]			6.4	Mean	der Mi	gratior	ו:	No	ne		
7.4 Comments:									6.5	Mean	der Wi	dth:			N/A R	ato: 0.0	
NULL									6.6	Wave	length	:			N/A R	atio: 0.0	
									Ste	p 7. W	<u>'indshi</u>	eld Su	irvey				
									7	7.1 Bar	nk Ero	sion:		0			ft
									7	7.2 Bar	nk Hei	ght:		No	Data		ft
												5	Poten		t Evaluate	d	п
4.1 4.	2 4.3	5.1 5.2	2 5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total			
				<u> </u>									1.3		4		
1 0		0 0	-	0	0	0	0	0 N.S.	0	0 N/A	0 N/A	0 N.S.	0 N.S.	1			
Low N.	3. N.S. 1	N.S. N.S	S. N.S.	N.S.	N.S.	Unk.	N.S.	INC	N.S.			10					

	ook -	B	asi	in 1	3							Pha	ase	1 -	Re	ach	Sι	ım	mary	Repo	rt
Basin:		Le	ower	Conn	ectic	ut						Reach				T1.0			-	-	
Stream Nan	ne:	В	eave	Broo	k							SGAT	- Versi	on:		4.56					
Topo Maps: Watershed:		W	INDS	OR								Date I QA St	Last E tatus:	dited:		•	l, 03 2 heck		e complet	e	
Sub-watersl	hed:											ls Rea	ach Ar	i Impo	undm	ent?:		No			
<u>Step 1. Rea</u> 1.1 Reach [the Rt				West	of Str	awbe	rry Hi	l Rd a	and	continues	s upstrear	n to the
1.2 Towns:	West	Wir	ndsoi	•								5	Step 4.	Land	Cove	r - Rea	ach H	ydro	logy		
1.3 Downsti	eam Lati	tude):		43.46	7327						2	4.1 Wa	itershe	ed						
1.3 Downsti	eam Lon	gitu	de:	-	-72.47	70515							Histo	oric La	and Co	over:				Forest	
Step 2. Stre	am Type	-											Curr	ent Do	omina	nt Lan	d Cov	er:		Forest	69.0 %
2.1 Elevatio 2.1 Elevatio			m:				76 67					2	Curr 1.2 Co	ent Su	ub-Doi	minant	Land	d Cov	/er:	Field	
2.1 Is Gradi	ent Gent	le?:				I	No							oric La	and Co	ver::				Forest	
2.2 Valley L	ength:				5	,425.0	ft.		1.03	Mile	es		Curr	ent Do	omina	ntlan	d Cov	er.		Forest	38.0 %
2.3 Valley S	lope:					:	2.0							ent Su					/er:	Urban	20.0 /0
2.4 Channe	I Length:				6	,569.0	ft.		1.24	Mile	∋s	4.3	Ripari						_eft Bank		nt Bank
2.5 Channe	I Slope:					1.	66 %						Domina		inor			-	>100		•100
2.6 Sinuosit	y:						21						Sub-do		nt:				51-100		-100
2.7 Watersh	ed Area:						6.5 Sq		liles				_ength			n 25 ft	.:		407.0 ft.		356.0 ft.
2.8 Channe							9.9 fee	-					Groun					Miniı			
2.9 Valley V	Vidth:					170	0.0 fee	t					p 5. In				lodific	ontion	00		
2.10 Confin	ement Ra	atio:				ę	5.7						Flow				iounic	allu	15		
2.10 Confin	ement Ty	/pe:		I	Narro	w							Гуре:			()-		Non	е		
2.11 Refere	nce Strea	am 1	Гуре:	(С								Jse:						•		
Bedfor	m:			I	Riffle	-Pool							Bridge	es and	d Culv	erts:			3	0.9	%
Sub-C	ass Slop	e:		I	None								Bank					2	65.6	4.0	
Bed M				(Cobb	le							Left:			151	.2 ft.	Rig	aht:	114.4	
Step 3. Basi	n Charate	erist	icts									5.4	Chan		raighte			0.0	,	0.0	
3.1 Alluvial	Fan:			I	None								Dredo		0	0			dging		,0
3.2 Grade C	Control:			I	Ledge	е							p 6. F					2.00	-99		
3.3 Domina	nt Geolog	gical	Mat.		Till				70.6	%			Berm:				10115		150.0 ft.		2.3
3.3 Sub-dor	n. Geolog	gical	Mat.	: 1	ce-C	ontact	t					0.1	Denna	Saru	Jaus -	olu.			<u>e Side</u>	Both Sid	-
3.4 Valley S	lope Left	:		:	Steep)							Roa	d				<u>UI</u>	<u>e Side</u> 0.0 ft.	<u>Bour Sid</u> 0.0	
3.4 Valley S	lope Rig	ht:			Very	Steep								o. road:					0.0 ft.	0.0	
3.5 Soils													Berr						150.0 ft.	0.0	
Hydrolog					В				70.2					roved l	Dath				0.0 ft.	0.0	
Flooding:				I	None	/Rare			100.0			62	Devel						597.5 ft.	0.0 190.6	
Water Ta	•				6.0				99.6	%			Chan	•					tiple	130.0	π.
Water Ta		ow:			6.0				99.6				Mean			. .			od Chute		
Erodibility					Very	Sever	e		89.5	%			Mean		0	n.		FIOC		ato: 4.7	
7.4 Comr																					
Private brid	ige at sl	ope	trans	sition	may I	have l	ow ice	e jam j	ootent	al.			Wave	0					370 ft. R	atio: 12.4	
													p 7. W			<u>urvey</u>		4000	0.04		
													7.1 Bai					1022	2.91		ft
												7	7.2 Bai	nk Hei	ght:			5			ft
												7	7.3 Ice	/Debri	s Jam	Poter	tial:	Brid	ge		
	4.1 4	.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	То	tal]		
	2	2	1	0	0	0	0	2	0	1	0	0	1	0	1	1	1	1			
		<	1			1 0	1 .	1 4	N.S.	1	1	v ا	1 1	1 0	1 1	1 1	1 1	•	I		

Mill Brook - Basin 13 Phase 1 - Reach Summary Basin: Lower Connecticut Reach ID: T1.01.S3.01 Stream Name: Unnamed Trib 01 to Beaver Brook SGAT Version: 4.56 Topo Maps: HARTLAND, WINDSOR Date Last Edited: April, 03 2015 Sub-watershed: Date Last Edited: April, 03 2015 Sub-watershed: Is Reach ID: No checks are complet Sub-watershed: Begins at the reach break South of Coon Club Rd and continues upstream to the reach break 1.1 Reach Description: Harmond Hill Rd Crossing. 1.1 1.2 Towns: West Windsor Step 4. Land Cover - Reach Hydrology 1.3 Downstream Latitude: 43.479805 4.1 Watershed 1.3 Downstream Langitude: -72.471359 Historic Land Cover: 2.1 Elevation Dystream: 1.272 Current Dominant Land Cover: 2.1 Standin Gentle?: No Historic Land Cover: Current Dominant Land Cover: 2.2 Valley Length: 9,208.3 ft. 1.61 Miles Current Dominant Land Cover: 2.3 Valley Slope: 5.2 % Current Dominant Land Cover: Current Dominant Land Cover: 2.4 Channel Length: 9,236.3 ft.	te
Stream Name: Unnamed Trib 01 to Beaver Brook SGAT Version: 4.56 Topo Maps: HARTLAND, WINDSOR Date Last Edited: April, 03 2015 Watershed: CA Status: No checks are complet Sub-watershed: Is Reach An Impoundment?: No Sub- Named Trib 01 to Beaver Brook Status: No checks are complet Sub- Named Trib 01 to Beaver Brook Is Reach An Impoundment?: No Sub- Named Trib 01 to Beaver Brook Status: No checks are complet Sub- Named Trib 01 to Beaver Brook Is Reach An Impoundment?: No Sub- Named Beagins at the reach break South of Coon Club Rd and continues upstream to the reach break Is Reach Location Begins at the reach break South of Coon Club Rd and Cover: No 1.2 Towns: West Windsor Step 1. Land Cover - Reach Hydrology 4.1 Watershed 1.3 Downstream Longitude: +72.471359 Historic Land Cover: Current Dominant Land Cover: 2.1 Elevation Downstream: 763 4.2 Corridor Historic Land Cover: Current Sub-Dominant Land Cover: 2.2 Valley Length: 8,500.0 ft. 1.61 Miles Current Sub-Dominant Land Cover: 2.3 Valley Stope: 5.60 Sub-dom	ak North of the Forest Forest 68.0 %
OptimizedData Elabor.Pip in or otherWatershed:OA Status:No thecks are completSub-watershed:Is Reach An Impoundment?:NoStep 1. Reach LocationBegins at the reach break South of Coon Club Rd and continues upstream to the reach break1.1 Reach Description:Hammond Hill Rd Crossing.1.2 Towns:West Windsor1.3 Downstream Latitude:43.4798051.3 Downstream Latitude:43.4798051.3 Downstream Latitude:43.4798052.1 Elevation Dpostream:72.4713592.1 Elevation Downstream:7632.1 Elevation Downstream:7632.2 Valley Length:8,500.0 ft.2.3 Valley Slope:6.02.4 Channel Slope:5.52 %2.6 Channel Slope:5.62 %2.6 Channel Slope:5.52 %2.7 Watershed Area:1.1 Square Miles2.10 Confinement Type:Semi-confined2.10 Confinement Type:Semi-confined2.11 Reference Stream Type:ABedform:Step-PoolS.12 Flow Regulation - (old):2.11 Reference Stream Type:ABedform:Step-PoolS.12 Flow Regulation - (old):2.11 Reference Stream Type:NoneBedform:Step-PoolS.2 Grade Control:NoneS.2 Grade Control:NoneS.2 Grade Control:NoneS.2 Grade Control:NoneS.2 Grade Control:NoneS.2 Grade Control:NoneS.2 Grade Control:NoneS.3 Control: </td <td>ak North of the Forest Forest 68.0 %</td>	ak North of the Forest Forest 68.0 %
Step 1. Reach Location 1.1 Reach Description:Begins at the reach break South of Coon Club Rd and continues upstream to the reach break Hammond Hill Rd Crossing.1.2 Towns:West Windsor1.2 Towns:West Windsor1.3 Downstream Latitude:43.4798051.3 Downstream Longitude:-72.4711359Step 2. Stream Type-72.47113592.1 Elevation Upstream:1,2722.1 Elevation Downstream:7632.1 Elevation Downstream:7632.1 Elevation Downstream:1,2722.2 Valley Length:8,500.0 ft.2.3 Valley Slope:6.02.4 Channel Length:9,236.3 ft.2.5 Channel Slope:5.52 %2.6 Sinuosity:1.092.7 Watershed Area:1.1 Square Miles2.10 Confinement Ratio:3.72.10 Confinement Type:Semi-confined2.11 Reference Stream Type:ABedform:Step-PoolSub-Class Slope:NoneBed Material:BedrockStep 3. Basin CharateristictsNone3.1 Alluvial Fan:None3.2 Grade Control:None3.2 Grade Control:None	Forest Forest 68.0 %
1.1 Reach Description: Hammond Hill Rd Crossing. 1.2 Towns: West Windsor 1.2 Towns: West Windsor 1.3 Downstream Latitude: 43.479805 1.3 Downstream Longitude: -72.471359 Step 2. Stream Type Current Dominant Land Cover: 2.1 Elevation Upstream: 763 2.1 Elevation Downstream: 763 2.1 Steg adjent Gentle?: No 2.2 Valley Length: 8,500.0 ft. 2.3 Valley Slope: 6.0 2.4 Channel Length: 9,236.3 ft. 2.5 Channel Slope: 5.52 % 2.6 Sinuosity: 1.09 2.7 Watershed Area: 1.1 Square Miles 2.8 Channel Width: 13.7 feet 2.9 Valley Width: 50.0 feet 2.10 Confinement Ratio: 3.7 2.10 Confinement Type: Semi-confined 2.11 Reference Stream Type: A Bedform: Step-Pool Sub-Class Slope: None Bed Material: Bedrock 2.11 Alluvial Fan: None 3.2 Grade Control: None 3.2 Grade Control: None	Forest Forest 68.0 %
1.3 Downstream Latitude: 43.479805 4.1 Watershed 1.3 Downstream Longitude: -72.471359 Historic Land Cover: Step 2. Stream Type Current Dominant Land Cover: Current Dominant Land Cover: 2.1 Elevation Upstream: 1,272 Current Sub-Dominant Land Cover: 2.1 Elevation Downstream: 763 4.2 Corridor 2.1 Is Gradient Gentle?: No Historic Land Cover: 2.3 Valley Length: 8,500.0 ft. 1.61 Miles 2.4 Channel Length: 9,236.3 ft. 1.75 Miles 2.5 Channel Slope: 5.52 % Dominant: 26-50 2.6 Sinuosity: 1.09 Sub-dominant: 26-50 2.8 Valley Width: 13.7 feet 4.4 Ground Water Inputs: Abundant 2.9 Valley Width: 3.7 5.1 Flow Regulation - (old): 1.1 Step Slope: 2.10 Confinement Ratio: 3.7 5.1 Flow Regulation - (old): 1.1 Step Pool 5.2 Bridges and Culverts: 2 2.11 Reference Stream Type: A Use: 5.2 Bridges and Culverts: 2 5.3 Bank Armoring: 0.0 2.11 Reference Stream Type: A Step -Pool 5.2 Bridges and C	Forest 68.0 %
1.3 Downstream Longitude: -72.471359 Historic Land Cover: Step 2. Stream Type 1,272 Current Dominant Land Cover: 2.1 Elevation Downstream: 763 4.2 Corridor 2.1 Is Gradient Gentle?: No Historic Land Cover: 2.2 Valley Length: 8,500.0 ft. 1.61 Miles 2.3 Valley Slope: 6.0 Current Dominant Land Cover: 2.4 Channel Length: 9,236.3 ft. 1.75 Miles 2.5 Channel Slope: 5.52 % Dominant: 51-100 2.6 Sinuosity: 1.09 Sub-dominant: 51-100 2.8 Channel Width: 13.7 feet Left Bank 2.9 Valley Width: 50.0 feet Step 5. Instream Channel Modifications 2.10 Confinement Ratio: 3.7 Step 5. Instream Channel Modifications 2.11 Reference Stream Type: A Use: 5.2 Bridges and Culverts: 2 Sub-Class Slope: None 5.2 Bridges and Culverts: 2 5.3 Bank Armoring: 0.0 Bed form: Step - Pool S.4 Channel Straightening: 43.2 1.6 Channel Straightening: 43.2 3.1 Alluvial Fan: None 5.	Forest 68.0 %
Step 2. Stream Type2.1 Elevation Upstream:1,2722.1 Elevation Downstream:7632.1 Is Gradient Gentle?:No2.2 Valley Length:8,500.0 ft.2.3 Valley Slope:6.02.4 Channel Length:9,236.3 ft.2.5 Channel Slope:5.52 %2.6 Sinuosity:1.092.7 Watershed Area:1.1 Square Miles2.9 Valley Width:50.0 feet2.9 Valley Width:50.0 feet2.10 Confinement Ratio:3.72.11 Reference Stream Type:Semi-confined2.11 Reference Stream Type:ABedform:Step-PoolSub-Class Slope:NoneBed Material:BedrockStep 3. Basin CharateristictsNone3.1 Alluvial Fan:None3.2 Grade Control:None	Forest 68.0 %
2.1 Elevation Upstream: 1,272 Current Sub-Dominant Land Cover: 2.1 Elevation Downstream: 763 4.2 Corridor 2.1 Is Gradient Gentle?: No Historic Land Cover:: 2.2 Valley Length: 8,500.0 ft. 1.61 Miles 2.3 Valley Stope: 6.0 Current Sub-Dominant Land Cover: 2.4 Channel Length: 9,236.3 ft. 1.75 Miles 2.5 Channel Stope: 5.52 % Current Sub-Dominant Land Cover: 2.6 Sinuosity: 1.09 Sub-Dominant Land Cover: 2.7 Watershed Area: 1.1 Square Miles Sub-dominant: 26-50 2.8 Channel Width: 13.7 feet 4.4 Ground Water Inputs: Abundant 2.10 Confinement Ratio: 3.7 Step -Pool Step -Pool S.1 Flow Regulation - (old): 2.11 Reference Stream Type: A Use: S1 Piges and Culverts: 2 3.1 Alluvial Fan: None Sedrock S4 Channel Straightening: 432.1 3.2 Grade Control: None S4 Channel Straightening: 432.1	
2.1 Elevation Upstream: 1,272 Current Sub-Dominant Land Cover: 2.1 Elevation Downstream: 763 4.2 Corridor 2.1 Is Gradient Gentle?: No Historic Land Cover:: 2.2 Valley Length: 8,500.0 ft. 1.61 Miles 2.3 Valley Stope: 6.0 Current Sub-Dominant Land Cover: 2.4 Channel Length: 9,236.3 ft. 1.75 Miles 2.5 Channel Stope: 5.52 % Current Sub-Dominant Land Cover: 2.6 Sinuosity: 1.09 Sub-Dominant Land Cover: 2.7 Watershed Area: 1.1 Square Miles Sub-dominant: 26-50 2.8 Channel Width: 13.7 feet 4.4 Ground Water Inputs: Abundant 2.10 Confinement Ratio: 3.7 Step -Pool Step -Pool S.1 Flow Regulation - (old): 2.11 Reference Stream Type: A Use: S1 Piges and Culverts: 2 3.1 Alluvial Fan: None Sedrock S4 Channel Straightening: 432.1 3.2 Grade Control: None S4 Channel Straightening: 432.1	Field
2.1 Is Gradient Gentle?: No Historic Land Cover:: 2.2 Valley Length: 8,500.0 ft. 1.61 Miles Current Dominant Land Cover: 2.3 Valley Slope: 6.0 Current Sub-Dominant Land Cover: Current Sub-Dominant Land Cover: 2.4 Channel Length: 9,236.3 ft. 1.75 Miles Current Sub-Dominant Land Cover: 2.4 Channel Length: 9,236.3 ft. 1.75 Miles Current Sub-Dominant Land Cover: 2.5 Channel Slope: 5.52 % Miles Current Sub-Dominant Land Cover: 4.3 Riparian Buffer Left Bank 2.6 Sinuosity: 1.09 Sub-dominant: 26-50 Length w / less than 25 ft.: 1,486.0 ft. 2.8 Channel Width: 13.7 feet Sub-dominant: 26-50 Length w / less than 25 ft.: 1,486.0 ft. 2.10 Confinement Ratio: 3.7 Step 5. Instream Channel Modifications 5.1 Flow Regulation - (old): None 2.11 Reference Stream Type: A Use: 5.2 Bridges and Culverts: 2 Sub-Class Slope: None Step Pool S.4 Channel Straightening: 432.1 Step 3. Basin Charateristicts S.4 Channel Straightening: 432.1 <t< td=""><td></td></t<>	
2.3 Valley Slope:6.0Current Dominant Land Cover:2.4 Channel Length:9,236.3 ft.1.75Miles2.5 Channel Slope:5.52 %Current Sub-Dominant Land Cover:2.6 Sinuosity:1.092.7 Watershed Area:1.1 Square Miles2.8 Channel Width:13.7 feet2.9 Valley Width:50.0 feet2.10 Confinement Ratio:3.72.10 Confinement Type:Semi-confined2.11 Reference Stream Type:ABedform:Step-PoolSub-Class Slope:NoneBed Material:BedrockStep 3. Basin CharateristictsNone3.1 Alluvial Fan:None3.2 Grade Control:None	Forest
2.3 Valley Slope: 6.0 Current Sub-Dominant Land Cover: 2.4 Channel Length: 9,236.3 ft. 1.75 Miles 2.5 Channel Slope: 5.52 % Alight in the second seco	Forest 37.0 %
2.4 Channel Length: 9,236.3 ft. 1.75 Miles 2.5 Channel Slope: 5.52 % 2.6 Sinuosity: 1.09 2.7 Watershed Area: 1.1 Square Miles 2.8 Channel Width: 13.7 feet 2.9 Valley Width: 50.0 feet 2.10 Confinement Ratio: 3.7 2.10 Confinement Type: Semi-confined 2.11 Reference Stream Type: A Bedform: Step-Pool Sub-Class Slope: None Bed Material: Bedrock Step 3. Basin Charateristicts None 3.1 Alluvial Fan: None 3.2 Grade Control: None	Field
2.5 Channel Slope:5.52 %2.6 Sinuosity:1.092.7 Watershed Area:1.1 Square Miles2.8 Channel Width:13.7 feet2.9 Valley Width:50.0 feet2.10 Confinement Ratio:3.72.10 Confinement Type:Semi-confined2.11 Reference Stream Type:ABedform:Step-PoolSub-Class Slope:NoneBed Material:BedrockStep 3. Basin CharateristictsNone3.1 Alluvial Fan:None3.2 Grade Control:NoneStep 6. Eloodplain Modifications:Step 6. Eloodplain Modifications:	Right Bank
2.6 Sinuosity:1.092.7 Watershed Area:1.1 Square Miles2.8 Channel Width:13.7 feet2.9 Valley Width:50.0 feet2.10 Confinement Ratio:3.72.10 Confinement Type:Semi-confined2.11 Reference Stream Type:ABedform:Step-PoolSub-Class Slope:NoneBed Material:BedrockStep 3. Basin CharateristictsNone3.1 Alluvial Fan:None3.2 Grade Control:None	>100
2.7 Watershed Area: 1.1 Square Miles 2.8 Channel Width: 13.7 feet 2.9 Valley Width: 50.0 feet 2.10 Confinement Ratio: 3.7 2.10 Confinement Type: Semi-confined 2.11 Reference Stream Type: A Bedform: Step-Pool Sub-Class Slope: None Bed Material: Bedrock Step 3. Basin Charateristicts None 3.1 Alluvial Fan: None 3.2 Grade Control: None	51-100
2.8 Channel Width: 13.7 feet 2.9 Valley Width: 50.0 feet 2.10 Confinement Ratio: 3.7 2.10 Confinement Ratio: 3.7 2.10 Confinement Type: Semi-confined 2.11 Reference Stream Type: A Bedform: Step-Pool Sub-Class Slope: None Bed Material: Bedrock Step 3. Basin Charateristicts S.1 Alluvial Fan: 3.1 Alluvial Fan: None 3.2 Grade Control: None	
2.9 Valley Width: 50.0 feet 2.10 Confinement Ratio: 3.7 2.10 Confinement Type: Semi-confined 2.11 Reference Stream Type: A Bedform: Step-Pool Sub-Class Slope: None Bed Material: Bedrock Step 3. Basin Charateristicts S.1 Alluvial Fan: 3.1 Alluvial Fan: None 3.2 Grade Control: None	
2.10 Continement Ratio: 3.7 2.10 Continement Type: Semi-confined 2.11 Reference Stream Type: A Bedform: Step-Pool Sub-Class Slope: None Bed Material: Bedrock Step 3. Basin Charateristicts 5.4 Channel Straightening: 3.1 Alluvial Fan: None 3.2 Grade Control: None	
2.10 Confinement Type: Semi-confined Type: None 2.11 Reference Stream Type: A Use: Use: Bedform: Step-Pool 5.2 Bridges and Culverts: 2 Sub-Class Slope: None 5.3 Bank Armoring: 0.0 Bed Material: Bedrock Left: 0.0 ft. Right: Step 3. Basin Charateristicts 5.4 Channel Straightening: 432.1 3.1 Alluvial Fan: None 5.5 Dredging History: None 3.2 Grade Control: None Step 6. Eloodplain Modifications	
2.11 Reference Stream Type: A Use: Bedform: Step-Pool 5.2 Bridges and Culverts: 2 Sub-Class Slope: None 5.3 Bank Armoring: 0.0 Bed Material: Bedrock Left: 0.0 ft. Right: Step 3. Basin Charateristicts 5.4 Channel Straightening: 432.1 3.1 Alluvial Fan: None 5.5 Dredging History: None 3.2 Grade Control: None Step 6. Eloodplain Modifications	
Bedform: Step-Pool 5.2 Bridges and Culverts: 2 Sub-Class Slope: None 5.3 Bank Armoring: 0.0 Bed Material: Bedrock Left: 0.0 ft. Step 3. Basin Charateristicts 5.4 Channel Straightening: 432.1 3.1 Alluvial Fan: None 5.5 Dredging History: None 3.2 Grade Control: None Step 6. Eloodplain Modifications	
Sub-Class Slope: None 5.3 Bank Armoring: 0.0 Bed Material: Bedrock Left: 0.0 ft. Right: Step 3. Basin Charateristicts 5.4 Channel Straightening: 432.1 3.1 Alluvial Fan: None 5.5 Dredging History: None 3.2 Grade Control: None Step 6. Eloodplain Modifications	0.5 %
Bed Material: Bedrock Left: 0.0 ft. Right: Step 3. Basin Charateristicts 5.4 Channel Straightening: 432.1 3.1 Alluvial Fan: None 5.5 Dredging History: None 3.2 Grade Control: None Step 6. Eloodplain Modifications	0.0 %
Step 3. Basin Charateristicts 5.4 Channel Straightening: 432.1 3.1 Alluvial Fan: 5.5 Dredging History: None 3.2 Grade Control: None Step 6. Eloodplain Modifications	0.0 % 0.0 ft.
3.1 Alluvial Fan: None 3.2 Grade Control: None Step 6. Eloodplain Modifications	4.7 %
3.2 Grade Control: None Step 6 Eloodalain Modifications	4.1 %
3.3 Dominant Geological Mat.: Till 92.7 % Step 6. Floodplain Modifications	
3.3 Sub-dom. Geological Mat.:Other6.1 Berms & Roads - old:0.0 ft.	0.0
3.4 Valley Slope Left: Very Steep One Side	Both Sides
3.4 Valley Slope Right: Very Steep Road: 0.0 ft.	0.0 ft.
3.5 Soils Railroad: 0.0 ft.	0.0 ft.
Hydrologic Group: C 46.8 % Berm: 0.0 ft.	0.0 ft.
Flooding: None/Rare 100.0 % Improved Path: 0.0 ft.	0.0 ft.
Water Table Deep: 6.0 59.0 % 6.2 Development: 172.3 ft.	0.0 ft.
Water Table Shallow: 6.0 59.0 % 6.3 Channel Bars: None	
Erodibility: Very Severe 92.7 % 6.4 Meander Migration: None	
7.4 Comments: 6.5 Meander Width: N/A R	lato: 0.0
NULL 6.6 Wavelength: N/A R	Ratio: 0.0
Step 7. Windshield Survey	
7.1 Bank Erosion: 0	ft
7.2 Bank Height: No Data	ft
7.3 Ice/Debris Jam Potential: Culvert	it.
4.1 4.2 4.3 5.1 5.2 5.3 5.4 5.5 6.1 6.2 6.3 6.4 6.5 6.6 7.1 7.3 Total	
High Low High N.S. N.S. N.S. N.S. Unk. N.S. N.S. N.S. N.S. N.S. N.S. N.S. N.	

Mill Br	ook	x - E	Bas	in	13	3							Pha	ase	1 -	Re	ach	Su	mn	nary	Repo	ort
Basin:		L	ower	Co	onne	cticut							Reach	n ID:			T1.0	1.S4.0 ⁻	1	-	-	
Stream Nar	ne:	ι	Jnnar	ned	l Tril	b 02 to	Bea	aver E	rook				SGAT	Versi	on:		4.56					
Topo Maps: Watershed:		C	CAVE	NDI	ISH,	WIND	SOR	2					Date I QA St	Last E atus:	dited:		•	l, 03 20 hecks		complet	e	
Sub-waters	hed:												ls Rea	ach Ar	n Impo	undm	ent?:	N	ю			
<u>Step 1. Rea</u> 1.1 Reach [each fo eam to											sville	Hartla	nd R	d cross	ing and c	ontinuing
1.2 Towns:	We	est W	indso	r									5	Step 4.	. Land	Cove	r - Rea	ach Hyd	drolo	<u>av</u>		
1.3 Downsti	ream L	atitud	le:		4:	3.4815	87						2	1.1 Wa	tershe	d						
1.3 Downsti	ream L	ongitu	ude:		-7	2.4737	776							Histo	oric La	nd Co	over:				Field	
Step 2. Stre	am Ty	<u>pe</u>												Curr	ent Do	ominai	nt Lan	d Cove	r:		Forest	54.0 %
2.1 Elevatio 2.1 Elevatio							1,2 7	99 82						Curr I.2 Co		ıb-Dor	minant	Land (Cove	er:	Field	
2.1 Is Gradi	ent Ge	entle?					M	No							oric La	nd Co	over::				Field	
2.2 Valley L	ength:					10,60	0.00	ft.		2.01	Mile	es		Curr	ont D	mina	ntlan	d Cove	r-		Urban	26.0 %
2.3 Valley S	lope:						4	1.9										Land (·r·	Field	20.0 %
2.4 Channe	I Leng	th:				11,55	59.2	ft.		2.19	Mile	es	12		ian Bu		man			eft Bank		ht Bank
2.5 Channe	l Slope	e:					4.	47 %						Domina		liei				>100		1-100
2.6 Sinuosit	y:						1.0	09							ominar	. .				0-25		0-25
2.7 Watersh	ned Are	ea:					1	.4 Sq	uare N	liles							n 25 ft			.945.0 ft		447.0 ft.
2.8 Channe	l Width	า:					15	5.4 fee	t					0	d Wat				bund	•	. <i>–</i> ,	
2.9 Valley V	Vidth:						60).0 fee	t							•						
2.10 Confin	ement	Ratio	:				3	8.9							Regula			lodifica	tions	<u>6</u>		
2.10 Confin	ement	Туре	:		S	emi-co	onfir	ned							rogun		(010).	s	mall	Run of	River	
2.11 Refere	nce St	tream	Туре		Α									Гуре:				-		ation		
Bedfor	m:				S	tep-Po	ol							Jse: Brida	es anc	Culve	orto:		1		1 (6 %
Sub-C	lass Sl	ope:			Ν	one									Armor		0110.			21.4	10.0	
Bed M					В	oulder	•						0.0	Left:		ing.	406	.2 ft.	Righ		815.2	
Step 3. Basi	n Cha	rateris	ticts										54		nel Str	ainhte			.092.		26.8	
3.1 Alluvial	Fan:				Ν	one									ging Hi	Ũ	0		redc		20.0	
3.2 Grade C	Control	:			D	am											odificat		loug	9		
3.3 Domina	nt Geo	ologica	al Mat	:	Ti	ill				82.2	%				s & Ro			10115	1 22	2 6.4 ft.	2	7.4
3.3 Sub-dor	n. Geo	ologica	al Mat	.:	Α	lluvial							0.1	Dellin	Saru	aus -	olu.			<u>Side</u>	د <u>Both Sid</u>	
3.4 Valley S	Slope L	.eft:			V	ery Ste	еер							Roa	d.					<u>3ide</u> 26.4 ft.		<u>ues</u>) ft.
3.4 Valley S	Slope F	Right:			V	ery Ste	еер								u. road:					0.0 ft.) ft.
3.5 Soils														Berr						0.0 ft.) ft.
Hydrolog		up:			С					89.6	%				oved l	Dath				0.0 ft.) ft.
Flooding:						one/Ra	are			82.3	%		62	•	lopme					24.2 ft.) ft.
Water Ta		•			2.	-				43.4					nel Ba			M	ultip		0.0	7 n.
Water Ta	ble Sh	allow			1.	.5				43.4					der Mi		. .		•			
Erodibility					V	ery Se	vere	e		82.3	%				der M der W	0	11.	N	one		ato: 0.0	
7.4 Comr						(0)																
Culvert und Irene and c															length /indsh					IN/A R	atio: 0.0	
jammed du															nk Ero		<u>urvey</u>	2	04.00	07		
																			94.0			ft
															nk Hei	•		5				ft
													7	7.3 Ice	/Debri	s Jam	Poten	tial: C	ulve	rt		
	4.1	4.2	4.3	5	i.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	al			
	2	2	2	\vdash	1	0	1	2	2	2	0	0	0	0	0	0	2	16				
	<u> </u>																					

Mill Bro	ook -	Basi	in 1	3							Pha	ase	1 -	Rea	ach	Su	mm	nary	Repor	ť
Basin:		Lower	Conne	ecticu	ıt						Reach				T1.02			-	-	
Stream Nam	ie:	Beaver	Broo	k							SGAT	Versi	on:		4.56					
Topo Maps: Watershed:		WINDS	OR								Date I QA St	Last E atus:	dited:		•	, 03 2 hecks		omplet	e	
Sub-watersh Step 1. Read		<u>n</u>									the in		tion o	of She	ddsvil	le and			-Hartland I	
1.1 Reach D	escription	:	contii	nues i	upstre	eam to	o the r	each I	oreak	South	nast of	the I	nterse	ction	of Bro	ownsv	'ille-Ha	artland	and Blood	Hill Rd.
1.2 Towns:	West V	Vindsor	•								5	Step 4.	Land	Cove	[.] - Rea	ich Hy	drolog	У		
1.3 Downstre	eam Latitu	ıde:	4	13.481	655						2	1.1 Wa	tershe	ed						
1.3 Downstre	eam Long	itude:	-	72.47	3307							Histo	oric La	nd Co	ver:				Forest	
Step 2. Strea	<u>am Type</u>											Curr	ent Do	ominar	nt Land	d Cove	er:		Forest	75.0 %
2.1 Elevatior 2.1 Elevatior	n Downstr	eam:			7	30 76					Z	Curr 1.2 Co		ıb-Dor	ninant	Land	Cover	:	Urban	
2.1 Is Gradie		?:				No						Histo	oric La	nd Co	ver::				Forest	
2.2 Valley Le	ength:			6,	600.0	ft.		1.25	Mile	es		Curr	ent Do	ominar	nt Land	d Cove	er:		Forest	27.0 %
2.3 Valley Sl	lope:				2	2.3						Curr	ent Su	ıb-Dor	ninant	Land	Cover		Urban	
2.4 Channel	Length:			7,	723.2	ft.		1.46	Mile	es	4.3	Ripari	an Bu	ffer			Left	t Bank	Right	Bank
2.5 Channel	Slope:				2.	00 %						Domina)-25		100
2.6 Sinuosity						17					5	Sub-do	minar	nt:			51	-100	0-	25
2.7 Watersh					3	8.5 Squ	uare N	liles							n 25 ft.			045.0 ft.	-	37.0 ft.
2.8 Channel						2.7 fee						Groun					bunda	ant		
2.9 Valley W	/idth:				250).0 fee	t							•	nnel M					
2.10 Confine	ement Rat	io:			11	.0						Flow				louinca				
2.10 Confine	ement Typ	e:	۱	/ery B	Broad								logui		(0.0).	ç	Small \	Withdra	wal	
2.11 Referer	nce Strear	n Type:	C	2								Гуре:					Recrea			
Bedforr	n:		F	Riffle-	Pool							Jse: Bridge	es and	l Culve	orte:		4		2.5	2/2
Sub-Cla	ass Slope		١	lone								Bank					209	5	2.7 9	
Bed Ma	aterial:		C	Grave	I						0.0	Left:		ing.	0	0 ft	Right:		209.5 f	
Step 3. Basir	h Charater	<u>isticts</u>									51	Chan		aiahte			69.7		12.6 °	
3.1 Alluvial F	an:		١	lone								Dredo		-	ning.		None		12.0	/0
3.2 Grade C	ontrol:		L	edge													Vone			
3.3 Dominar	nt Geologi	cal Mat.	: 1	Fill				70.2 °	%						dificat	ions				-
3.3 Sub-dom	n. Geologi	cal Mat.	: /	Alluvia	al						6.1	Berm	s & Ro	ads -	old:			5.5 ft.	11.	-
3.4 Valley SI	lope Left:		١	/ery S	steep							-						<u>Side</u>		
3.4 Valley Sl	lope Right		5	Steep								Roa						5.5 ft.	0.0 f	
3.5 Soils													oad:).0 ft.	0.0 f	
Hydrologi	c Group:		E	3				54.1 °	%			Berr).0 ft.	0.0 f	
Flooding:			١	None/I	Rare			72.5 °	%			•	oved I).0 ft.	0.0 f	
Water Tab	ole Deep:		2	2.0				36.3	%			Devel	•			_	1,197	7 .2 ft.	168.1 f	t.
Water Tab	ole Shallo	N:	1	.0				36.3	%		6.3	Chan	nel Ba	rs:			Point			
Erodibility	:		5	Severe	e			72.5	%		6.4	Mean	der Mi	gratio	n:	F	Flood	Chute		
7.4 Comm	nents:										6.5	Mean	der W	idth:			7	70 ft. R	ato: 3.1	
Culvert and	sharp be	ed in lov	ver rea	ach m	ay ha	ve po	tentia	l for ic	e jam	S	6.6	Wave	length	:			20	00 ft. R	atio: 8.8	
											<u>Ste</u>	<u>p 7. N</u>	/indshi	ield Su	<u>irvey</u>					
											7	7.1 Bai	nk Ero	sion:		8	800.72			ft
											7	7.2 Bai	nk Hei	ght:		7	,			ft
											7	7.3 Ice	/Debri	s Jam	Poten	tial: E	Bridge			
Г	4.1 4.2	2 4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tot				
 		_				I				l							_			
	1 2		1	0	0	1	0	1	1	0	0	1	0	1	1	12	2			
	Low Hig	h High	Low	N.S.	N.S.	Low	N.S.	Low	Low	N.S.	N.S.	Low	N.S.	Low	Low					

Basin: Stream Nam Topo Maps: Watershed: Sub-watersh	ne:	L												- C	110				mary	TOPC	
Topo Maps: Watershed:	ne:		ower	Conn	ecticu	ıt						Reach	n ID:			T1.0	3				
Watershed:		В	eave	r Broo	k							SGAT	Versi	on:		4.56					
Sub-watersh		Н	ARTL	AND,	WIND	DSOR						Date I QA St	_ast Eo atus:	dited:		•	l, 03 2 :heck		e complet	te	
	ned:											ls Rea	ach An	Impo	undm	ent?:		No			
<u>Step 1. Read</u> 1.1 Reach D						follov oss R		od Hi	ll Rd a	nd is	boun	d by t	he rea	ch bre	eaks I	North	and S	Sout	h of the ii	ntersectio	on of Blood
1.2 Towns:	Wes	t Wi	ndsor									5	Step 4.	Land	Cove	r - Rea	ach H	ydrol	ogy		
1.3 Downstr	eam Lat	titud	e:	4	13.498	3973							I.1 Wa						•		
1.3 Downstr	eam Lo	naitu	ide:	-	72.47	8674							Histo	oric La	ind Co	over:				Forest	
Step 2. Strea		0											Curr	ent Do	omina	nt Lan	d Cov	ver:		Forest	79.0 %
2.1 Elevation 2.1 Elevation	n Upstre	am:				1,0 9	46 30					,	Curr I.2 Cor	ent Su	ub-Dor	ninan	t Land	d Cov	ver:	Urban	
2.1 Is Gradie	ent Gen	tle?:				1	No					2		nuor oric La	ind Co	wer				Field	
2.2 Valley Le	ength:				5,	,175.0	ft.		0.98	Mile	es						40	·		Field	40 0 0/
2.3 Valley S	lope:					2	2.2							ent Do ent Su					(or:	Forest	48.0 %
2.4 Channel		:			5,	,580.8	ft.		1.06	Mile	es	4.0				man	Land		••••	Urban	ht Donk
2.5 Channel	Slope:					2.	07 %						Ripari		πer			L	<u>eft Bank</u>		ht Bank
2.6 Sinuosity	y:					1.	08						Domina						0-25		0-25
2.7 Watersh	ed Area	:				1	I .0 Squ	uare N	iles				Sub-do						26-50		1-100
2.8 Channel	Width:					13	8.1 feet	t					.ength						3,394.0 ft	. 3,	469.0 ft.
2.9 Valley W	/idth:					350).0 fee	t					Groun		•				ndant		
2.10 Confine	ement R	atio:				26	6.8						<u>p 5. In</u>					cation	<u>15</u>		
2.10 Confine	ement T	ype:		Ņ	/ery E	Broad						5.1	Flow I	Regula	ation -	(old):					
2.11 Referer		• •	Type:		2							٦	ype:					Non	е		
Bedforr			71 -	F	Riffle-	Pool							Jse:								
Sub-Cl	ass Slop	oe:		ł	2								Bridge			erts:			2		1 %
Bed Ma				Ċ	Grave	el.						5.3	Bank	Armor	ing:				0.0) %
Step 3. Basir	n Chara	teris	ticts										Left:				.0 ft.				D ft.
3.1 Alluvial F	Fan:				None								Chan		Ũ	ening:		1,01	2.4	18.1	1 %
3.2 Grade C	control:				None							5.5	Dredg	jing Hi	story:			Non	е		
3.3 Dominar	nt Geolo	odica	l Mat.		Fill				80.5 %	6		<u>Ste</u>	<u>p 6. Fl</u>	oodpla	ain Mo	odifica	<u>tions</u>				
3.3 Sub-dom		-			Alluvi	al				-		6.1	Berms	s & Ro	oads -	old:		1,'	1 55.4 ft.	2	0.7
3.4 Valley S		-			Steep													<u>On</u>	<u>e Side</u>	Both Sid	<u>des</u>
3.4 Valley S					/ery S								Road	d:				1,'	1 55.4 ft.	0.0	D ft.
3.5 Soils		,											Railr	oad:					0.0 ft.	0.0	D ft.
Hydrologi	c Group			r	c				46.7 %	6			Bern	n:					0.0 ft.	0.0	D ft.
Flooding:	o Oroup	•			- None/	Rare			85.0 %				Impr	oved I	Path:				0.0 ft.	0.0	D ft.
Water Tal	ble Deel	n.			1.5	i tu o			46.7 %			6.2	Devel	opmer	nt:				181.2 ft.	0.	D ft.
Water Tal).0				46.7 %			6.3	Chan	nel Ba	rs:			Mid-	channel		
Erodibility						Severe	•		85.0 %			6.4	Mean	der Mi	igratio	n:		Non	е		
7.4 Comm							•		00.0	0		6.5	Mean	der Wi	idth:				26 ft. R	ato: 2.0	
Meander ge		me	asure	d fron	n sho	rt area	a of ch	annel	visibl	e in E	SRI	6.6	Wave	length	:				78 ft. R	atio: 6.0	
World Imag	er at so	ale	1:150	0 or si	malle	r. Cha	nnel d	lefinit				Ste	p 7. W	/indshi	ield Su	urvev					
upstream o	tnis p	oint	aue t	o cattl	e gra	zing ii	mpact	s.				7	′.1 Bar	nk Ero	sion:	-		1618	8.76		ft
												7	.2 Bar	nk Hei	aht:			1			
													.3 Ice/		0	Poter			e		ft
Г	4.1 4	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	То	tal			
ŀ							I														
	1 Low H	2 ligh	2 High	0 N.S.	0 N.S.	0 N.S.	1 Low	0 N.S.	2 High	0 N.S.	2 High	0 N.S.	2 High	2 High	2 High	0 N.S.		6			

Mill Broo	k - E	Bas	in 1	3							Pha	ase	1 -	Rea	ach	Sum	marv	Repor	t
Basin:	ı	.ower	Conn	ecticu	ıt						Reach				T1.04		y	10.01	
Stream Name:			r Broo								SGAT	Versi	on:		4.56				
Topo Maps:												Last E				, 03 201	5		
Watershed:											QA St		uneu.		•	•	e complet	e	
Sub-watershed:											ls Rea	ach An	Impo	undme	ent?:	No			
Step 1. Reach Lo	ocation								nd is	boun	d by tl	he rea	ch bre	eaks N	lorth	and Sou	th of the in	tersection	of Blood
1.1 Reach Descr	iption:		Hill F	ld and	l Parri	sh Vie	ew Rd	•											
1.2 Towns: V	lest W	indso	r								5	Step 4.	Land	Cove	[.] - Rea	ch Hydro	<u>ology</u>		
1.3 Downstream	Latitud	e:		43.512	2241						4	I.1 Wa	tershe	ed					
1.3 Downstream	Longit	ude:		-72.48	5093							Histo	oric La	ind Co	ver:			Forest	
Step 2. Stream T	<u>ype</u>											Curr	ent Do	ominar	nt Land	d Cover:		Forest	75.0 %
2.1 Elevation Up	stream	:			1,2	91						Curr	ent Su	ub-Dor	ninant	Land Co	ver:	Urban	
2.1 Elevation Do					1,0						4	1.2 Coi	rridor						
2.1 Is Gradient G				_		No						Histo	oric La	ind Co	ver::			Forest	
2.2 Valley Lengtl				2,	,520.0			0.48	Mile	S		Curr	ent Do	ominar	nt Land	d Cover:		Forest	36.0 %
2.3 Valley Slope:				_).7 		• •-				Curr	ent Su	ub-Dor	ninant	Land Co	ver:	Urban	
2.4 Channel Len	0			2,	,607.3			0.49	Mile	S	4.3	Ripari	an Bu	ffer			Left Bank	<u>Right</u>	Bank
2.5 Channel Slop	be:					41 %					0	Domina	ant:				26-50	>1	00
2.6 Sinuosity:						03					5	Sub-do	minar	nt:			51-100	51-	100
2.7 Watershed A).3 Squ		liles			L	ength	w / les	ss tha	n 25 ft	.:	0.0 ft.		0.0 ft.
2.8 Channel Wid					-	7.2 fee	-				4.4	Groun	d Wat	er Inpi	uts:	Non	е		
2.9 Valley Width:						5.0 fee	t				Ste	n 5 In	strean	n Chai	nnel M	lodificatio	ns		
2.10 Confinemer	nt Ratio	:				8.4						Flow I				loamoatic			
2.10 Confinemer	nt Type	:		Semi-	confir	ned						Type:			()	Sm	all Run of	River	
2.11 Reference S	Stream	Type:		Α								Jse:				Red	reation		
Bedform:				Step-F	Pool							Bridge	es and	l Culve	erts:		1	0.6 %	6
Sub-Class S	Slope:			None								Bank					0.0	0.0 %	6
Bed Materia				Cobbl	e							Left:			0	. 0 ft. Ri	ght:	0.0 ft	
Step 3. Basin Ch	arateris	ticts									5.4	Chan		aighte		0.0	9	0.0 %	
3.1 Alluvial Fan:				None								Dredg		0	·	Noi	ne	010 /	•
3.2 Grade Contro	ol:			Dam								p 6. Fl	-		dificat				
3.3 Dominant Ge	eologica	al Mat.	:	Till				100.0	%			Berms					. 071.2 ft.	41.	4
3.3 Sub-dom. Ge	eologica	al Mat	:	Alluvi	al						0.1	Denns	SARU	aus -	010.		-		-
3.4 Valley Slope	Left:			Very S	Steep							Road	4.				<u>ne Side</u> . 071.2 ft.	Both Side: 0.0 ft	
3.4 Valley Slope	Right:			Ext. S	teep								u. oad:			1	0.0 ft.	0.0 fi	
3.5 Soils																	0.0 ft.	0.0 fi	
Hydrologic Gr	oup:			С				100.0	%			Bern							
Flooding:				None/	Rare			100.0	%		<u> </u>	•	oved I				0.0 ft.	0.0 ft	
Water Table D	eep:			2.0				69.5 9	%			Devel				Na	321.7 ft.	0.0 ft	ι.
Water Table S	shallow			1.0				69.5 9	%			Chan				Noi			
Erodibility:				Very S	Severe	•		100.0 ዓ	%			Mean		-	n:	Noi			
7.4 Comments	S:											Mean						ato: 0.0	
NULL												Wave	0				N/A R	atio: 0.0	
												<u>p 7. W</u>			<u>irvey</u>				
											7	7.1 Bar	nk Ero	sion:		0			ft
											7	7.2 Bar	nk Hei	ght:		No	Data		ft
											7	7.3 Ice	/Debri:	s Jam	Poten	tial: No i	ne		
4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total	T		
			I			<u> </u>											-		
2 High	2 h High	0 N 9	1 I ow	0 N.S.	0 N.S.	0 N.S.	0 N.S.	2 High	1	0 N.S.	0 N.S.	0 N/A	0 N/A	0 N.S.	0 N.S.	8			
∣ ∣⊓ıgı	i nigri	14.0.		14.0.	1 18.0.	14.0.	14.0.	l i iigii	LOW	14.0.	14.0.		I WA	14.0.	14.0.				

Mill Bro	ook	- E	Bas	in	1:	3							Pha	ase	1 -	Rea	ach	Su	mmary	y Repo	ort
Basin:		L	.owe	r Co	onne	ectic	ut						Reac				T2.0		-		
Stream Nam	ne:		Villov	-									SGAT	Versi	on:		4.56				
Topo Maps: Watershed:		C	CAVE	ND	ISH								Date I QA St	Last E	dited:		•	l, 03 20 hecks:	15 are compl	ete	
Sub-watersh	ned.												Is Re:	ach An	Impo	undme		N	•		
Step 1. Rea		cation		Т	his r	each	1 bea	ins at	the re	ach br	eak s				•					eak North c	of the first
1.1 Reach D								Cross								•					
1.2 Towns:		est Wi	indsc	or									5	Step 4.	Land	Cove	r - Rea	ach Hyd	Irology		
1.3 Downstr	eam l	atitud	е.		4	3 45	4982							1.1 Wa							
1.3 Downstr						72.5 [°]										ind Co	ver.			Forest	
Step 2. Stre		•				. 2.0												d Cove	r .	Forest	75.0 %
2.1 Elevation								816										Land (Urban	10.0 /0
2.1 Elevation								764						1.2 Co		10-001	man		50001.	Orban	
2.1 Is Gradie	ent Ge	entle?:						No								ind Co	ver::			Field	
2.2 Valley L	ength:					3	8,1 20 .	0 ft.		0.59	Mil	es		Curr	ont D	minar	ntlan	d Cove	<i>.</i> .	Forest	20.0 %
2.3 Valley S	lope:							1.7										Land (Urban	20.0 /0
2.4 Channel	Leng	th:				4	l, 02 7.	9 ft.		0.76	Mile	es	12	Ripari			man		Left Ban		ht Bonk
2.5 Channel	Slope	e:						1.28 %						Domina		nei			<u>Leit Ban</u> 0-25		<u>ht Bank</u> 0-25
2.6 Sinuosit	y:							1.29						Sub-do					26-50		0-25 26-50
2.7 Watersh	ed Ar	ea:						5.3 So	quare	Miles				_ength			n 75 ft		2,031.0		744.0 ft.
2.8 Channel	Width	ו:					:	2 7.2 fe	et					Groun					inimal	n. z ,	744.0 II.
2.9 Valley W	/idth:						5	1 0.0 fe	et												
2.10 Confine	ement	Ratio	:					18.8										<u>lodifica</u>	<u>tions</u>		
2.10 Confine	ement	Туре			v	/ery	Broa	d						Flow I	Regula	alion -	(010):				
2.11 Refere	nce St	tream	Туре	:	C	;								Гуре:				N	one		
Bedfor	m:				R	Riffle	-Poo	I						Jse:					2		N 0/
Sub-Cl	ass Sl	ope:			N	lone	•							Bridge			ens:		3		9 %
Bed Ma	aterial	:			G	Grave	el						5.3	Bank		ing:	200	• "	1,513.4	37.0	
Step 3. Basir	n Cha	rateris	ticts										- 4	Left:		- ¹ - 1 - 1 -			Right:	1,186.	
3.1 Alluvial I	Fan:				Ν	lone	•							Chan		-	ening:		307.9	32.	o %
3.2 Grade C	ontrol	:			L	.edg	е							Dredg	-	-			redging		
3.3 Dominar	nt Geo	logica	al Mat	.:	A	Alluv	ial			66.4	%		<u>Ste</u>	<u>p 6. Fl</u>	oodpla	ain Mo	odificat	<u>tions</u>			
3.3 Sub-don	n. Geo	ologica	al Mat	i.:	lo	ce-C	onta	ct					6.1	Berm	s & Ro	oads -	old:		1,041.6 ft.	2	5.9
3.4 Valley S	lope L	.eft:			S	Steep	b												<u>One Side</u>	Both Sid	<u>des</u>
3.4 Valley S					н	Iilly								Roa	d:				1,041.6 ft.) ft.
3.5 Soils	•	•				-								Railr	oad:				0.0 ft.) ft.
Hydrologi	c Gro	up:			В	3				66.4	%			Bern	n:				0.0 ft.) ft.
Flooding:		•			c	Occa	siona	al		66.4	%			Impr	oved	Path:			0.0 ft.	0.0) ft.
Water Tal	ble De	ep:			3	.0				66.4			6.2	Devel	opme	nt:			479.3 ft.	0.0) ft.
Water Ta	ble Sh	allow:			1	.5				66.4	%		6.3	Chan	nel Ba	rs:		N	ultiple		
Erodibility							erate			33.6			6.4	Mean	der Mi	igratio	n:	F	lood Chute	9	
7.4 Comn													6.5	Mean	der W	idth:			60 ft.	Rato: 2.2	
Minor debri			ntial	at F	Rt 44	bric	dge. I	Dredgi	ng at	Rt 44 p	ost-Ir	ene ai	nd 6.6	Wave	length	:			230 ft.	Ratio: 8.5	
downstrear								2		-				p 7. W			<u>urvey</u>				
													7	7.1 Bai	nk Ero	sion:		3	62.224		ft
													7	7.2 Bai	nk Hei	ght:		5			ft
																0	Poter	ntial: B			11
r		4.0		.		F C	1						_						_		
	4.1	4.2	4.3	Ľ	5.1	5.2	5.3	3 5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	11		
	2	2	2		0	0	2	2	2	2	1	2	1	2	0	1	1	22			
	High	High	High	J K		N.S.	1	h Hig	h Hig	h High	Low	High	Low		N.S.	Low			1		

Mill Bro	ook [.]	- B	asi	in 1	3							Pha	ase	1 -	Rea	ach	Sum	marv	Repor	t
Basin:		L	ower	Conr	nectio	cut						Reach				T2.02				
Stream Nam	ie:		Villow									SGAT	Versi	on:		4.56				
Topo Maps: Watershed:		С	AVE	NDISH	4							Date I QA St	Last Eo tatus:	dited:		•	l, 03 2015 hecks ar	5 e complet	e	
Sub-watersh	ned:											ls Rea	ach An	Impo	undme	ent?:	No			
Step 1. Read	ch Loca	tion		This	reac	h follo	ws Ru	sh Me	adow	Rd. a	nd is l	oound	l by th	e two	reach	h brea	ks south	of West R	lowe Hill Re	d.
1.1 Reach D	escripti	on:																		
1.2 Towns:	Wes	t Wi	ndsoi	r								5	Step 4.	Land	Cove	r - Rea	ach Hydro	ology		
1.3 Downstr	eam Lat	titude	э:		43.4	63456						Z	1.1 Wa	itershe	ed					
1.3 Downstr	eam Loi	ngitu	de:		-72.5	514676							Histo	oric La	nd Co	ver:			Forest	
Step 2. Strea	am Type	<u>e</u>											Curr	ent Do	ominar	nt Land	d Cover:		Forest	76.0 %
2.1 Elevation 2.1 Elevation							919 316						Curr 1.2 Cor		ıb-Dor	ninant	Land Co	ver:	Urban	
2.1 Is Gradie	ent Gen	tle?:					No							oric La	nd Co	ver::			Forest	
2.2 Valley Le	ength:					3,150.0) ft.		0.60	Mile	es		Curr	ont Do	minar	nt Land	d Cover:		Urban	36.0 %
2.3 Valley S	lope:						3.3										Land Co	ver:	Forest	JU.U /0
2.4 Channel	Length	:				3,213.8	3 ft.		0.61	Mile	es	12	Ripari			man		Left Bank		Bank
2.5 Channel	Slope:					3	.20 %						Domina		liei			26-50		00
2.6 Sinuosity	/:					1	.02						Sub-do		nt.			20-50 51-100		100
2.7 Watersh	ed Area	1:					5.0 Sq	uare N	liles				_ength			n 25 ft		588.0 ft.		0.0 ft.
2.8 Channel	Width:					2	6.7 fee	t					Groun				 Mini			0.0 11.
2.9 Valley W	/idth:					13	0.0 fee	t							•					
2.10 Confine	ement R	atio:					4.9					-	<u>p 5. In</u> Flow I				lodificatio	<u>ins</u>		
2.10 Confine	ement T	ype:			Narr	ow								Neguia	- 1001	(010).	Nor			
2.11 Referer	nce Stre	am [·]	Туре:		в								Гуре:				NOI	le		
Bedforr	n:				Step	-Pool							Jse: Brida			orto:		1	1.0 ዓ)/
Sub-Cla	ass Slop	pe:			Non	е							Bridge			ens.	4	-		
Bed Ma	aterial:				Cob	ble						5.3	Bank		ing:	0.40		,106.2	34.4 9	
Step 3. Basir	h Chara	terist	icts									- 4	Left:					ght:	262.6 f	
3.1 Alluvial F	an:				Non	е							Chan		U	ening:	0.0		0.0 ዓ	/o
3.2 Grade C	ontrol:				Ledg	ge							Dredg				Nor	ie		
3.3 Dominar	nt Geolo	ogica	l Mat.	:	Till				93.6	%			<u>p 6. Fl</u>				ions			
3.3 Sub-dom	n. Geolo	ogica	l Mat.	:	Ice-0	Contac	t					6.1	Berms	s & Ro	ads -	old:		159.3 ft.	98.	3
3.4 Valley S	lope Lef	ft:			Stee	р												<u>ne Side</u>	Both Side	
3.4 Valley S	lope Rig	ght:			Very	Steep)						Road				3,	159.3 ft.	0.0 f	
3.5 Soils					-	-							Railr	oad:				0.0 ft.	0.0 f	
Hydrologi	c Group):			С				93.6	%			Bern	n:				0.0 ft.	0.0 f	
Flooding:					Non	e/Rare			100.0 9	%			Impr	oved F	Path:			0.0 ft.	0.0 f	t.
Water Tal	ole Dee	p:			2.0				91.4 9	%		6.2	Devel	opmer	nt:			0.0 ft.	0.0 f	t.
Water Tal		•			1.0				91.4			6.3	Chan	nel Ba	rs:		Mul	tiple		
Erodibility	:					Sever	e		100.0			6.4	Mean	der Mi	gratio	n:	Flo	od Chute		
7.4 Comm					,							6.5	Mean	der Wi	idth:			N/A R	ato: 0.0	
NULL												6.6	Wave	length	:			N/A R	atio: 0.0	
												<u>Ste</u>	p 7. W	/indshi	ield Su	urvey				
												7	7.1 Bar	nk Ero	sion:		483	.218		ft
												7	7.2 Bar	nk Hei	ght:		2			ft
															0	Poten	tial: Cul	vert		п
r	4 4 1	4 0 1	4.0				1.5.4			<u> </u>								7		
	4.1 4	4.2	4.3	5.1	5.2	2 5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total	1		
		2	1	0	0	2	0	0	2	0	2	l o	0	0	1	1	13			
	2 High H		1	N.S.	-		-		High			N.S.	N/A	N/A	Low	-		1		

Mill Bro	ok - E	Basi	n 1:	3							Pha	ase	1 -	Rea	ach	Su	m	mar	v Re	port	
Basin:		ower	Conne	ecticut							Reach				T2.0						
Stream Name			Brook								SGAT	Versi	on:		4.56						
Topo Maps: Watershed:	(CAVEN	IDISH								Date I QA St	Last E atus:	dited:		•	l, 03 2 hecks		compl	ete		
Sub-watershe	d:										ls Rea	ach An	i Impo	undme	ent?:	١	٥N				
Step 1. Reach	Location		This r	each fo	ollov	vs Ru	sh Me	adow	Rd. a	nd is I	bound	l by th	e read	h bre	aks N	orth a	nd S	South o	f Banis	ster Rd.	
1.1 Reach De	scription:																				
1.2 Towns:	West W	indsor									5	Step 4.	Land	Cove	r - Rea	<u>ach Hy</u>	drol	<u>ogy</u>			
1.3 Downstrea	am Latitud	e:	4	3.4712	49						2	I.1 Wa	itershe	d							
1.3 Downstrea	am Longit	ude:	-7	72.5122	231							Histo	oric La	nd Co	ver:				Fore	est	
Step 2. Stream	n Type											Curr	ent Do	minar	nt Lan	d Cove	er:		Fore	est	75.0 %
2.1 Elevation 2.1 Elevation					1,0 9	58 19					2	Curr I.2 Co		b-Dor	ninant	Land	Cov	er:	Urb	an	
2.1 Is Gradien	t Gentle?				M	No							oric La	nd Co	ver::				Comr	nercial	
2.2 Valley Len	ngth:			6,04	45.0	ft.		1.14	Mile	es		Curr	ent Dr	minar	ntlan	d Cove	r.		Urb		42.0 %
2.3 Valley Slo	pe:				2	2.3										Land		or.	Fore		42.0 /0
2.4 Channel L	ength:			6,81	18.9	ft.		1.29	Mile	es	13	Ripari			minam	Lana		eft Banl		Right E	Bank
2.5 Channel S	Slope:				2.	04 %						Domina					<u> </u>	>100	<u>n</u>	0-2	
2.6 Sinuosity:					1.	13					_	Sub-do		+ •				0-25		26-5	
2.7 Watershee	d Area:				4	1.7 Squ	uare N	liles				_ength			n 25 ft			1,803.0	ft	3.257	-
2.8 Channel V	Vidth:				25	5.9 fee	t					Groun						dant	n	5,257	
2.9 Valley Wic	dth:				200).0 fee	t							•							
2.10 Confinem	nent Ratio	:			7	7.7						<u>p 5. In</u> Flow l				IODITICa	ation	<u>IS</u>			
2.10 Confinem	nent Type	:	В	Broad									regui		(010).			ll Withd	Irowal		
2.11 Reference	e Stream	Type:	В	3								Гуре:					Dthe		llawai		
Bedform:	:		R	Riffle-P	ool							Jse: Brida		Cuby	orto:	,	June	7		2.8 %	
Sub-Clas	ss Slope:		N	lone								Bridge			115.					2.0 % 28.7 %	
Bed Mate	erial:		C	obble							5.3	Bank		ing:	074)54.5			
Step 3. Basin (Charateris	ticts									- 4	Left:		-:		.4 ft.	Rig		1,	083.1 ft.	
3.1 Alluvial Fa	ın:		Ν	lone								Chan		Ũ	ening:		924.			13.6 %	
3.2 Grade Cor	ntrol:		L	.edge								Dredg					lone	;			
3.3 Dominant	Geologica	al Mat.:	: Т	ïll				53.4	%			<u>p 6. Fl</u>				ions					
3.3 Sub-dom.	Geologica	al Mat.	: lo	ce-Con	tact						6.1	Berm	s & Ro	ads -	old:		•	85.6 ft.		93.6	
3.4 Valley Slo	pe Left:		s	steep								_						<u>e Side</u>		th Sides	
3.4 Valley Slo	pe Right:		н	lilly								Roa					6,1	03.7 ft.	2	281.9 ft.	
3.5 Soils													oad:					0.0 ft.		0.0 ft.	
Hydrologic	Group:		C	;				65.3 [°]	%			Bern						0.0 ft.		0.0 ft.	
Flooding:			N	lone/Ra	are			79.0 [°]	%				oved I					0.0 ft.		0.0 ft.	
Water Table	e Deep:		2	.5				40.6	%			Devel	•					46.6 ft.		0.0 ft.	
Water Table	e Shallow		1	.5				40.6 °	%		6.3	Chan	nel Ba	rs:		Ν	Multi	iple			
Erodibility:			v	/ery Se	vere	•		79.0 [°]	%		6.4	Mean	der Mi	gratio	n:	F	Floo	d Chute	÷		
7.4 Comme	ents:			•							6.5	Mean	der W	dth:				110 ft.	Rato:	4.3	
Minor debris		ntial a	t first o	crossir	ng of	f Rusł	n Mea	dow R	oad n	ear	6.6	Wave	length	:				330 ft.	Ratio:	12.8	
West Hill Rd.											<u>Ste</u>	<u>p 7. W</u>	/indshi	eld Su	<u>irvey</u>						
											7	7.1 Bar	nk Ero	sion:		1	001	.09			ft
											7	7.2 Baı	nk Hei	ght:		4	Ļ				ft
											7	7.3 Ice	/Debri	s Jam	Poten	tial: N	Nulti	ple			
	11 1 1 2	10	<u> </u>	501	52	E 4	66	61	6.2	62					-						
	4.1 4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tot	aı				
	2 2	2	1 Low	0	2	1	0 N.S.	2	1	1	0	1	0	1	1	17	7				
	ligh High	High		N.S. H	ligh	Low		High	Low	Low	N.S.	Low	N.S.	Low	Low						

Mill Bro	ook	(- E	3as	sir	า 13	3							Pha	ase	1 -	Rea	ach	Su	Im	mary	Repo	rt
Basin:		L	_owe	r C	conne	ecticu	ıt						Reach				T2.0			-	-	
Stream Nam	ie:	V	Nillo	w E	Brook	(SGAT	Versi	on:		4.56					
Topo Maps: Watershed:		C	CAVE	ENE	DISH								Date I QA St	_ast E atus:	dited:		•	l, 03 2 hecks		e complet	e	
Sub-watersh <u>Step 1. Rea</u> 1.1 Reach D	ch Loo			т	īhis ro	each	paral	lels R	ush M	eadov	v Rd t			ach An and is	•				No ch b	reaks sou	ith of Dela	ano Rd.
1.2 Towns:	W	est Wi	inds	or									5	Step 4.	Land	Cove	r - Rea	ach Hy	/dro	logy		
1.3 Downstr	eam l	_atitud	le:		4	3.487	7033						2	1.1 Wa	tershe	ed						
1.3 Downstr	eam l	ongitu	ude:		-7	72.51	8926							Histo	oric La	ind Co	ver:				Forest	
Step 2. Stre		0												Curr	ent Do	ominar	nt Lan	d Cove	er:		Forest	74.0 %
2.1 Elevation 2.1 Elevation							1,1 1,0						Z	Curr I.2 Col		ıb-Dor	ninant	Land	Cov	ver:	Field	
2.1 Is Gradie	ent Ge	entle?:	:				I	No								ind Co	ver::				Forest	
2.2 Valley Le	ength:	:				2,	,775.0	ft.		0.53	Mile	es		Curr	ent Do	ominar	nt I an	d Cove	er:		Forest	36.0 %
2.3 Valley S	lope:						3	3.0								ub-Dor				/er:	Urban	
2.4 Channel	0					3,	,051.4			0.58	Mile	es	4.3	Ripari						Left Bank		ht Bank
2.5 Channel	Slope	e:					2.	75 %						Domina					-	>100		>100
2.6 Sinuosity								10						Sub-do		nt:				0-25		1-100
2.7 Watersh								3.2 Squ		liles			L	ength	w / le	ss tha	n 25 ft			220.0 ft		230.0 ft.
2.8 Channel		n:						1.9 fee					4.4	Groun	d Wat	er Inpi	uts:	A	۱bu	ndant		
2.9 Valley W).0 fee	t				Ste	p 5. In	strear	n Chai	nnel M	Indific	atio	ns		
2.10 Confine								5.8						Flow I				loamo	allo			
2.10 Confine						Broad	I							ype:	•			I	Non	е		
2.11 Referei		tream	Туре	:	С		_							Jse:								
Bedfor						Riffle-	Pool							Bridge	es and	I Culve	erts:			0	0.0	%
Sub-Cl		•			b								5.3	Bank	Armor	ing:			2	40.5	7.9	%
Bed Ma			e		C	obbl	e							Left:			24	.1 ft.	Rig	ght:	216.4	ft.
Step 3. Basir		rateris	TICIS										5.4	Chan	nel Str	aighte	ning:	(0.0		0.0	%
3.1 Alluvial F						lone							5.5	Dredg	jing Hi	story:		I	Non	е		
3.2 Grade C						.edge				05 Q (Ste	p 6. Fl	oodpla	ain Mc	dificat	tions				
3.3 Dominar		U				\lluvia	ai			65.0 S	/o		6.1	Berm	s & Rc	oads -	old:		8	871.8 ft.	2	8.6
3.3 Sub-don		-	ai ivia	t.:		'ill 'ama C													On	e Side	Both Sic	les
3.4 Valley S						•	Steep							Roa	d:					871.8 ft.		ft.
3.4 Valley S 3.5 Soils	юре г	kight.			-	xt. S	teep							Railr	oad:					0.0 ft.	0.0	ft.
	o Cro				в	,				66.9 S	07			Bern	n:					0.0 ft.	0.0) ft.
Hydrologi Flooding:		up:					sional			65.0 S				Impr	oved I	Path:				0.0 ft.	0.0) ft.
Water Tal		on:			-	.0	sionai			65.0 °			6.2	Devel	opmei	nt:				415.6 ft.	0.0) ft.
Water Tal		•				.5				70.6 S			6.3	Chan	nel Ba	rs:		I	Mult	tiple		
Erodibility		ialiow.				.5 Ioder	rato			35.0			6.4	Mean	der Mi	igratio	n:	I	Mult	tiple		
7.4 Comn					IV	louei	ale			33.0	/0		6.5	Mean	der W	idth:				N/A R	ato: 0.0	
Meander ge			t ass	es	sed b	ecau	ise ch	annel	cente	rline r	ot vi	sible	6.6	Wave	length	:				N/A R	atio: 0.0	
with aerial													Ste	p 7. W	/indshi	ield Su	<u>urvey</u>					
													7	7.1 Baı	nk Ero	sion:	-	9	903.	739		ft
													7	7.2 Baı	nk Hei	aht:		1	3			
																0	Poter			Evaluated	ł	ft
٦	4.1	4.2	4.3	; T	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tot	tal	ן		
ŀ	1	2	1	╋	0	0	1	0	0	2	1	0	0	0	0	2	0	10	n	1		
	Low					N.S.	Low	-				-				∠ High	-	I "	-	1		

			Jas		า 13	5							Pha	ase	1 -	Rea	ach	l Su	Im	mary	Repo	ort
Basin:		L	.owe	r C	onne	cticu	t						Reach	n ID:			T2.0	5		-	-	
Stream Nan	ne:	V	Villo	wE	Brook	(SGAT	Versi	on:		4.56					
Topo Maps: Watershed:		C	CAVE	IN	DISH								Date I QA St	Last Eo tatus:	dited:		•	il, 03 2 checks		e complet	e	
Sub-watersl	hed:												ls Rea	ach An	Impo	undme	ent?:	I	No			
Step 1. Rea				Т	his r	each	follo	ws Ru	sh Me	adow	Rd. a	nd is I	oound	l by th	e read	ch bre	aks N	lorth a	and	South of	Sheddsv	ille Rd.
1.1 Reach E																~	_					
1.2 Towns:		est Wi		or										Step 4.			r - Rea	ach Hy	ydrol	<u>logy</u>		
1.3 Downsti	ream L	.atitud	e:			3.494							2	1.1 Wa								
1.3 Downsti		•	iqe:		-7	72.51	8078									nd Co					Field	
Step 2. Stre	-																	d Cov			Forest	73.0 %
2.1 Elevatio 2.1 Elevatio							1,2 1,1									ıb-Dor	ninant	t Land	Cov	/er:	Field	
2.1 Is Gradi							•	No					2	1.2 Coi								
2.2 Valley L						1.0	670.0			0.32	Mile	5				nd Co					Field	
2.3 Valley S	-					.,		3.7		0.52	wine							d Cov			Urban	31.0 %
2.4 Channe		th:				1 (989.0			0.38	Mile						ninant	t Land			Forest	
2.5 Channe	-					.,.		08 %		0.00	IVIIIE	\$	4.3	Ripari	an Bu	ffer			Ī	<u>_eft Bank</u>	<u>Ric</u>	<u>ht Bank</u>
2.6 Sinuosit								19					[Domina	ant:					26-50	:	26-50
2.7 Watersh		ea.						13 2.3 Squ	iare M	liles			5	Sub-do	minar	nt:				0-25		>100
2.8 Channe								 feet		mee			L	ength	w / le	ss thai	n 25 ft	t.:		849.0 ft.		536.0 ft.
2.9 Valley V).0 fee	-				4.4	Groun	d Wat	er Inpu	uts:	Ν	Miniı	mal		
2.10 Confin		Patio						3.4	•				<u>Ste</u>	p 5. In	strear	n Chai	nnel N	/lodific	ation	ns		
2.10 Confin					Р	road	, i						5.1	Flow I	Regula	ation -	(old):					
2.11 Refere		• •			c								٦	Гуре:				I	Non	е		
Bedfor		lieann	туре		-	, liffle-l	Pool						ι	Jse:								
Sub-Cl		000				lone	-001						5.2	Bridge	es and	l Culve	erts:			2	4.	3 %
Bed M		•				obble	_						5.3	Bank	Armor	ing:			3	33.1	16.	7 %
Step 3. Basi			ticte		U		e							Left:			31	.0 ft.	Rig	ght:	302.	1 ft.
3.1 Alluvial		atens	11015		N	lone							5.4	Chan	nel Str	aighte	ning:	;	378.	4	19.	0 %
3.2 Grade C													5.5	Dredg	jing Hi	story:		I	Non	е		
3.2 Grade C 3.3 Domina						edge ïll				1 00.0 ዓ	7		<u>Ste</u>	p 6. Fl	oodpla	ain Mo	difica	tions				
		Ũ			-		_ 1			100.0	/0		6.1	Berms	s & Ro	ads -	old:		1,4	496.1 ft.	7	75.2
3.3 Sub-dor		0	ai ma	t.:		lluvia	ai												On	<u>e Side</u>	Both Si	des
3.4 Valley S						teep								Road	d:					496.1 ft.		0 ft.
3.4 Valley S	поре н	kight:			v	ery S	teep							Railr	oad:					0.0 ft.	0.	0 ft.
3.5 Soils	ia 0				~					04 7 4				Bern	n:					0.0 ft.		0 ft.
Hydrolog		up:			C		Dere			81.7 9					oved I	Path:				0.0 ft.		0 ft.
Flooding:						lone/l	kare			100.0 9			6.2	Devel					:	270.7 ft.		0 ft.
Water Ta		•				.5				51.7 9				Chan	•			I		iple		
Water Ta		allow				.5 		_		51.7 9				Mean			n:		Non	•		
Erodibility					v	ery S	evere	•		100.0 ዓ	%			Mean		•					ato: 2.9	
7.4 Comr Meander ge			2611	0 m	onte	diffic	ult h	000110	a chai	nnol or	ontor	ino no								325 ft. R	-	
visible with									e undi	mer ce	men	ine no		p 7. W			INAV			525 n. N		•
		•					•							7.1 Bar			<u>livey</u>		240.	577		.
																			-	511		ft
														7.2 Bar		•			3			ft
													7	7.3 Ice	Debri	s Jam	Poter	ntial:	Brid	ge		
1	4.1	4.2	4.3	Т	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	To	tal			
				1				1				L					L			ł		
	1	2	2	T	0	0	1	1	0	2	1	0	0	2	2	1	l o	1	5			

Mill Br	ool	< - E	Bas	in 1	3							Pha	ase	1 -	Rea	ach	Sı	Jm	mary	Repo	rt
Basin:		I	ower	Conr	necticu	ıt						Reac	n ID:			T2.0	6				
Stream Nar	ne:	١	Nillow	Broo	ok							SGAT	Versi	on:		4.56					
Topo Maps Watershed:		١	NOOD	STO	CK SO	UTH,	CAVE	NDIS	4			Date I QA St	Last E tatus:	dited:		•	l, 03 2 :heck		e complet	e	
Sub-waters	hed:											ls Rea	ach Ar	n Impo	undme	ent?:		No			
Step 1. Rea	ach Lo	cation		This	reach	paral	lels R	ush M	eadov	/ Rd a							North	and	South of	Wardner I	Rd.
1.1 Reach I	Descri	ption:																			
1.2 Towns:	W	est W	indso	r								2	Step 4	. Land	Cove	· - Rea	ach H	lydrol	ogy		
1.3 Downst	ream l	_atituc	le:		43.498	3998						2	4.1 Wa	tershe	ed						
1.3 Downst	ream l	_ongit	ude:		-72.51	9417							Hist	oric La	and Co	ver:				Forest	
Step 2. Stre	am Ty	<u>/pe</u>											Curr	ent Do	ominar	nt Lan	d Cov	/er:		Forest	73.0 %
2.1 Elevatio 2.1 Elevatio						1,3 1,2							Curr 1.2 Co	ent Su	ıb-Dor	ninan	Land	d Cov	ver:	Field	
2.1 Is Gradi	ient Ge	entle?	:			1	No							oric La	and Co	ver::				Forest	
2.2 Valley L	ength				4	,200.0	ft.		0.80	Mile	es		Curr	ent Do	minar	ntlan	d Cov	/er·		Forest	37.0 %
2.3 Valley S	Slope:					2	2.6							ent Su					/er·	Urban	57.0 /0
2.4 Channe	el Leng	th:			4	,634.9	ft.		0.88	Mile	es	43	Ripar			minari	Lanc		<u>_eft Bank</u>	-	t Bank
2.5 Channe	l Slop	e:				2.	39 %						Domina					-	>100		6-50
2.6 Sinuosi	ty:						10						Sub-do		nt•				51-100		-100
2.7 Watersh	ned Ar	ea:				1	. 7 Sq	uare N	liles				_ength			n 25 fi			226.0 ft.		18.0 ft.
2.8 Channe	el Widt	h:				16	6.5 fee	et					Groun					Minir		•	
2.9 Valley V	Vidth:					150).0 fee	et					p 5. Ir		•						
2.10 Confin	ement	Ratic	:			g	9.1						Flow				1001110	callor	15		
2.10 Confin	ement	туре	:		Broad	I								rogun	ation	(010).		Non	e		
2.11 Refere	ence S	tream	Type:		С								Гуре: Jse:						•		
Bedfor	rm:				Riffle-	Pool							Bridg	es and	Culve	erts:			3	1.2	%
Sub-C	lass S	lope:			b								Bank					1	99.0	4.3	
Bed M	laterial	:			Grave	el						0.0	Left:		nıg.	0	.0 ft.			199.0	
Step 3. Basi	in Cha	rateris	sticts									54	Chan		aighte			0.0	,	0.0	
3.1 Alluvial	Fan:				None								Dredo		-	inig.		Non	e	0.0	/0
3.2 Grade 0	Contro	l:			None								p 6. F			difico	tions		-		
3.3 Domina	nt Geo	ologica	al Mat.	:	Till				78.4 9	6			Berm				10115	16	6 75.0 ft.	36	1
3.3 Sub-doi	m. Geo	ologica	al Mat.	:	Alluvi	al						0.1	Denn	5 0 1 1	Jaus -	oiu.		,	e Side	Both Side	
3.4 Valley S	Slope L	_eft:			Hilly								Roa	4.					675.0 ft.	<u>0.0</u>	
3.4 Valley S	Slope F	Right:			Hilly									u. road:				1,0	0.0 ft.	0.0	
3.5 Soils													Berr						0.0 ft.	0.0	
Hydrolog		up:			С				68.4 9					oved l	Path				0.0 ft.	0.0	
Flooding					None/	Rare			78.4 9			62	Devel						0.0 ft.	0.0	
Water Ta		•			1.5				51.2 9				Chan					Not	Evaluated		
Water Ta		nallow	:		0.0				51.2 9				Mean			<u>.</u>		Non		•	
Erodibilit					Very S	Severe	•		78.4 9	6			Mean		0	1.		NOIN		ato: 0.0	
7.4 Com				-l	4 1					-1 D										atio: 0.0	
New struct Meadow R													Wave p 7. W	0					N/A K	alio: 0.0	
because cl													7.1 Ba			<u>iivey</u>		0			
canopy.																			D =4-		ft
													7.2 Ba		-			No E			ft
												7	7.3 Ice	/Debri	s Jam	Poter	ntial:	Mult	iple		
	4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	To	otal			
	1	2	1	0	0	0	0	0	2	0	0	0	0	0	0	1		7			
	Low					-					N.S.	N.S.	N/A	N/A	N.S.	-					
L	I		I		1	<u> </u>		I		_											

Mill Br	ook -	Ba	si	n 1:	3							Pha	ase	1 -	Rea	ach	Sur	nmar	v R	eport	
Basin:		Low	er (Conne	ecticu	ıt						Reach				T2.0					
Stream Nan	me:			Brook								SGAT	- Versi	on:		4.56					
Topo Maps: Watershed:		woo	DC	тос	K SO	UTH						Date I QA St	Last Eo tatus:	dited:		•	l, 03 20 [.] hecks a	15 are comp	olete		
Sub-waters	hed:											ls Rea	ach An	i Impo	undme	ent?:	No	5			
Step 1. Rea	ach Locati	<u>on</u>	•	This r	each	follo	ws Ru	sh Me	adow	Rd ar	nd is b	ound	by the	e two	reach	break	s North	n of Brya	ant Rd		
1.1 Reach [Descriptio	n:																			
1.2 Towns:	West	Winds	sor									5	Step 4.	Land	Cove	r - Rea	<u>ach Hyd</u>	<u>rology</u>			
1.3 Downsti	ream Lati	ude:		4	3.510	276						Z	4.1 Wa	itershe	ed						
1.3 Downsti	ream Lon	gitude:		-7	72.51	8001							Histo	oric La	nd Co	ver:			Fi	ield	
Step 2. Stre	eam Type	-											Curr	ent Do	ominar	nt Lan	d Cover	:	Fo	rest	75.0 %
2.1 Elevatio 2.1 Elevatio						1,3 1,3							Curr 1.2 Co		ıb-Dor	ninant	Land C	over:	Fi	ield	
2.1 Is Gradi	ient Gentl	e?:				I	No							oric La	nd Co	ver::				Field	
2.2 Valley L	ength:				3,	350.0	ft.		0.63	Mile	es						d Cover			rest	29.0 %
2.3 Valley S	Slope:					2	2.3										Land C			ban	23.0 70
2.4 Channe	el Length:				3,	583.7	ft.		0.68	Mile	es	4.0				IIIIaiii	Lanu C		-) only
2.5 Channe	el Slope:					2.	19 %						Ripari Domina		ner			<u>Left Ba</u> 0-25		<u>Right E</u> 0-2	
2.6 Sinuosit	ty:					1.	07											26-50		26-5	
2.7 Watersh	hed Area:					1	1.1 Sq	uare N	liles				Sub-da _enath			~ <u>)</u> 05 44		26-50			-
2.8 Channe	el Width:					13	3.6 fee	t					0					,	U II.	2,684	 II.
2.9 Valley V	Vidth:					100	0.0 fee	t					Groun		•			undant			
2.10 Confin	ement Ra	itio:				7	7.4										lodificat	<u>ions</u>			
2.10 Confin	ement Ty	pe:		E	Broad								Flow I	Regula	ation -	(010):					
2.11 Refere	ence Strea	im Typ	e:	c	;								Гуре:				NO	one			
Bedfor	rm:			F	Riffle-	Pool							Jse:					•			
Sub-C	lass Slop	e:		b)								Bridge			erts:		3		1.3 %	
Bed M	laterial:			G	Grave	I						5.3	Bank		ing:	-		0.0		0.0 %	
Step 3. Basi	in Charate	eristicte	3										Left:					Right:		0.0 ft.	
3.1 Alluvial	Fan:			N	lone								Chan		0	ning:		367.9		66.1 %	
3.2 Grade C	Control:			N	lone							5.5	Dredg	jing Hi	story:		No	one			
3.3 Domina	int Geolog	jical M	at.:	т	ïll				50.5 S	%		<u>Ste</u>	p 6. Fl	loodpla	ain Mo	odificat	tions				
3.3 Sub-dor	m. Geolog	jical M	at.:	A	lluvia	al						6.1	Berm	s & Ro	ads -	old:		883.7 ft	t.	24.7	
3.4 Valley S	Slope Left	:		s	steep												<u>(</u>	<u> One Side</u>	<u>B</u>	oth Sides	
3.4 Valley S				F	lilly								Roa					883.7 ft		0.0 ft.	
3.5 Soils					-								Railr	oad:				0.0 ft		0.0 ft.	
Hydrolog	ic Group:			c	;				59.0 9	%			Bern	n:				0.0 ft		0.0 ft.	
Flooding:				N	lone/l	Rare			50.5	%			Impr	oved I	Path:			0.0 ft	t.	0.0 ft.	
Water Ta	able Deep	:		1	.5				49.5 9	%		6.2	Devel	opmei	nt:			294.9 ft	t.	0.0 ft.	
Water Ta	able Shallo	ow:		0	.0				49.5 9	%		6.3	Chan	nel Ba	rs:		No	ot Evalua	ated		
Erodibility	y:				evere	e			50.5 S	%		6.4	Mean	der Mi	gratio	n:	No	one			
7.4 Comr												6.5	Mean	der W	idth:			13 ft	t. Rato:	1.0	
Crossings	not obse	rved d	luri	ng wi	ndshi	ield s	urvey	s due	to priv	ate r	oads.	6.6	Wave	length	:			13 ft	t. Ratio	: 1.0	
												<u>Ste</u>	p 7. W	/indshi	ield Su	<u>urvey</u>					
												7	7.1 Bai	nk Ero	sion:		0				ft
												7	7.2 Bai	nk Hei	ght:		No	o Data			ft
															0	Poten		ot Evalua	ated		it
										<u> </u>								_			
			<u> </u>	F 4 1		F 0				6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	i i			
	4.1 4	.2 4.	3	5.1	5.2	5.3	5.4	5.5	6.1	0.2	0.0	0.1	0.0	0.0	7.1	7.0					
		.2 4. 2 2 gh Hig	2	0	5.2 0 N.S.	5.3 0 N.S.	2	0	2	1	0.0 0 N.S.	0 N.S.	2	2 High	0	0	14				

Mill Brook -	Basi	n 13							Pha	ase	1 -	Rea	ach	Su	m	mary	Rep	ort	
Basin:	Lower	Connect	icut						React				T2.0						
Stream Name:	Willow	Brook							SGAT	- Versi	on:		4.56						
Topo Maps: Watershed:	WOOD	STOCK	SOUTH						Date I QA St	Last E tatus:	dited:		•	l, 03 2 hecks:		complet	e		
Sub-watershed:									ls Rea	ach Ar	Impo	undme	ent?:	1	No				
Step 1. Reach Location		This readupstream									ection	of Du	iling a	nd Ru	ısh I	Meadow	Rd and o	continu	les
	Nindsor								2	Step 4.	Land	Cove	r - Rea	ach Hy	drol	oqv			
1.3 Downstream Latitu	ude:	43.5	518915							1.1 Wa				•					
1.3 Downstream Long			521696									and Co	ver:				Forest		
Step 2. Stream Type														d Cove	er:		Forest	7	75.0 %
2.1 Elevation Upstream	m:		1,6	95										Land		er	Urban	-	
2.1 Elevation Downstr			1,3						2	1.2 Co									
2.1 Is Gradient Gentle	?:		1	No								and Co	ver::				Field		
2.2 Valley Length:			4,280.0	ft.		0.81	Mile	es		Curr	ent Dr	omina	nt Lan	d Cove	ər:		Forest	3	36.0 %
2.3 Valley Slope:			7	7.1										Land		er:	Urban		
2.4 Channel Length:			5,121.8	ft.		0.97	Mile	es	4.3	Ripari						.eft Bank		ght Bai	nk
2.5 Channel Slope:			5.	91 %						Domina					_	51-100		<u>911 Dai</u> 51-100	
2.6 Sinuosity:			1.	20						Sub-do		nt•				0-25		0-25	
2.7 Watershed Area:			C).3 Sqi	uare N	liles				_ength			n 25 fi			0 20 1,045.0 ft.		1,255.0) ft
2.8 Channel Width:			7	7.8 fee	t					Groun						idant		,200.0	
2.9 Valley Width:			30).0 fee	t							•							
2.10 Confinement Rat	io:		3	3.8						Flow				<u>lodifica</u>	atior	<u>15</u>			
2.10 Confinement Typ	e:	Sen	ni-confir	ned							regui		(010).	c	Sma	ll Run of	River		
2.11 Reference Stream	m Type:	Α								Гуре:						reation			
Bedform:		Ste	p-Pool							Jse: Bridge	as and		arte:		1001	2	0	.7 %	
Sub-Class Slope	:	Nor	ne							Bank			5113.			2 0.0	-	.0 %	
Bed Material:		Βοι	ulder						5.5	Left:		ing.	0	.0 ft.	Rig			.0 /0	
Step 3. Basin Charater	risticts								E 4	Chan					кіў).0	n.	-	.0 %	
3.1 Alluvial Fan:		Nor	ne									Ũ	ming.		v.u None		U	.0 70	
3.2 Grade Control:		Dan	n							Dredg	-				NOIR	8			
3.3 Dominant Geologi	cal Mat.:	Till				100.0 S	%			p 6. F				tions					
3.3 Sub-dom. Geologi	cal Mat.	: Allu	ıvial						6.1	Berm	s & Ro	bads -	old:			8 76.2 ft.		36.6	
3.4 Valley Slope Left:		Ver	y Steep													<u>e Side</u>	<u>Both S</u>		
3.4 Valley Slope Right	t:	Ver	y Steep							Roa					1,8	876.2 ft.		.0 ft.	
3.5 Soils											oad:					0.0 ft.		.0 ft.	
Hydrologic Group:		Α				86.1 9	%			Berr						0.0 ft.		.0 ft.	
Flooding:		Nor	ne/Rare			100.0 9	%			•	oved I					0.0 ft.		.0 ft.	
Water Table Deep:		6.0				100.0 9	%			Devel	•					0.0 ft.		.0 ft.	
Water Table Shallo	w:	6.0				100.0 9	%		6.3	Chan	nel Ba	rs:		1	Not I	Evaluated	ł		
Erodibility:		Ver	y Severe	e		100.0 9	%		6.4	Mean	der Mi	igratio	n:	ľ	Migr	ation			
7.4 Comments:									6.5	Mean	der W	idth:				N/A R	ato: 0.0)	
NULL									6.6	Wave	length	1:				N/A R	atio: 0.0)	
									<u>Ste</u>	p 7. W	/indshi	ield Su	<u>urvey</u>						
									7	7.1 Bai	nk Ero	sion:		C)			ft	t
									7	7.2 Bai	nk Hei	ght:		1	No D	Data		ft	
									7	7.3 Ice	/Debri	s Jam	Poter	ntial: 1	Not I	Evaluated	b		•
4.1 4.2	2 4.3	5.1 5.	.2 5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tot	al				
2 2	2	1 (0	0	2	0	0	0	0	0	0	0	9					
∠ ∠ High Hig					0 N.S.	_	-	-	0 N.S.	0 N/A	N/A	-	-	9					
	in riigit	2017 11.	<u>.</u> (1.3.	11.0.	11.0.	l	11.0.	1.0.	1.0.	TWA		11.0.	1.0.						

Basin: Stream Name: Topo Maps: Watershed: Sub-watershed Step 1. Reach 1.1 Reach Des 1.2 Towns: 1.3 Downstrear Step 2. Stream 2.1 Elevation U 2.1 Elevation U 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slo 2.6 Sinuosity:	Reading CAVENI CAVENI Location T cription: T Reading m Latitude: m Longitude: Type Upstream: Downstream: Gentle?: gth: re: ength:	Connecticut g Hill Brook DISH This reach begins at th The reach ends at the 43.484744 -72.552217 970 934 No 2,575.0 ft. 1.4 3.017.5 ft.				h the	Reach SGAT Date I QA St Is Rea mains at an o	TD: Versid Last Ed atus: ach An stem s old tal Step 4.	on: dited: Impou outh c c mine	undme of Ago e.	T3.01 4.56 April, No ch ent?: ony Hil	03 201 lecks a No	5 re complet and paralle		
Stream Name: Topo Maps: Watershed: Sub-watershed Step 1. Reach 1.1 Reach Desi 1.2 Towns: 1.3 Downstrear 3.3 Downstrear Step 2. Stream 2.1 Elevation D 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Stream	Reading CAVENI CAVENI Location T cription: T Reading m Latitude: m Longitude: Type Upstream: Downstream: Gentle?: gth: re: ength:	g Hill Brook DISH This reach begins at th The reach ends at the 43.484744 -72.552217 970 934 No 2,575.0 ft. 1.4	upstrean			h the	Date L QA St Is Rea mains at an o	Last Ed atus: ach An stem s old tal Step 4.	dited: Impou outh o c mine	of Ago e.	April, No ch ent?: ony Hil	ecks a No I Road	re complet and paralle) the east.
Watershed: Sub-watershed Step 1. Reach 1.1 Reach Desi 1.2 Towns: 1.3 Downstrear 3.3 Downstrear Step 2. Stream 2.1 Elevation U 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Stream	CAVENI I: Location 1 cription: 1 Reading m Latitude: m Longitude: Type Jostream: Jownstream: Gentle?: gth: e: ength:	DISH Fhis reach begins at th Fhe reach ends at the 43.484744 -72.552217 970 934 No 2,575.0 ft. 1.4	upstrean			h the	QA St Is Rea mains at an o	atus: ach An stem s old tal Step 4.	Impou outh c c mine	of Ago e.	No ch ent?: ony Hil	ecks a No I Road	re complet and paralle) the east.
Step 1. Reach 1.1 Reach Desi 1.2 Towns: 1.3 Downstrear 1.3 Downstrear Step 2. Stream 2.1 Elevation U 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slop	Location T cription: T Reading m Latitude: m Longitude: Type Upstream: Comstream: Gentle?: gth: re: ength:	Fhe reach ends at the 43.484744 -72.552217 970 934 No 2,575.0 ft. 1.4	upstrean			h the	mains at an o <u>S</u>	stem s old tal Step 4.	outh c c mine	of Ago e.	ony Hil	l Road	and paralle	els Rt-106 to) the east.
 1.1 Reach Desi 1.2 Towns: 1.3 Downstrear 1.3 Downstrear 3 Downstrear 3 Downstrear 2.1 Elevation U 2.1 Elevation D 2.1 Elevation D 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slop 	cription: T Reading m Latitude: m Longitude: Type Upstream: Oownstream: Gentle?: gth: e: ength:	Fhe reach ends at the 43.484744 -72.552217 970 934 No 2,575.0 ft. 1.4	upstrean				at an o	old tal Step 4.	c mine	э.	-		-	els Rt-106 to	o the east.
1.3 Downstrear 1.3 Downstrear <u>Step 2. Stream</u> 2.1 Elevation U 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slo	m Latitude: m Longitude: <u>Type</u> Jpstream: Downstream: Gentle?: gth: e: ength:	-72.552217 970 934 No 2,575.0 ft. 1.4	0.4						Land	Cover	r - Read	<u>ch Hydr</u>	oloav		
1.3 Downstrear Step 2. Stream 2.1 Elevation U 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slo	m Longitude: <u>Type</u> Jpstream: Jownstream: Gentle?: gth: ee: ength:	-72.552217 970 934 No 2,575.0 ft. 1.4	0.4				4	4 14/-							
Step 2. Stream 2.1 Elevation U 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slo	<u>Type</u> Jpstream: Jownstream: Gentle?: gth: e: ength:	970 934 No 2,575.0 ft. 1.4	0.4					i.i wa	tershe	d					
 2.1 Elevation U 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slop 	Upstream: Downstream: Gentle?: gth: e: ength:	934 No 2,575.0 ft. 1.4	0.4					Histo	oric La	nd Co	ver:			Forest	
 2.1 Elevation U 2.1 Elevation D 2.1 Is Gradient 2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slop 	Upstream: Downstream: Gentle?: gth: e: ength:	934 No 2,575.0 ft. 1.4	0.4					Curr	ent Do	minar	nt Land	Cover:		Forest	82.0 %
2.2 Valley Leng 2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slo	gth: e: ength:	2,575.0 ft. 1.4	0.4				4	Curr .2 Cor		b-Don	ninant l	Land Co	over:	Urban	
2.3 Valley Slop 2.4 Channel Le 2.5 Channel Slo	e: ength:	1.4	0.4						oric La	nd Co	ver::			Field	
2.4 Channel Le 2.5 Channel Slo	ength:			9	Mile	s		Curr	ent Do	minar	nt I and	Cover:		Urban	38.0 %
2.5 Channel Sl	0	3.017.5 ft										Land Co		Forest	
	ope:	0,0111010	0.5	57	Mile	s	43	Ripari			milanti		Left Bank	Right	Bank
2.6 Sinuosity		1.22 %						Domina					>100	<u>-reigne</u> 0-2	
		1.17						Sub-do		t:			None	51-1	-
2.7 Watershed	Area:	•	uare Miles	;			-				n 25 ft.:		390.0 ft.		3.0 ft.
2.8 Channel W		24.3 feet						Groun					undant	-,	
2.9 Valley Widt	th:	225.0 feet	t							•		odificati			
2.10 Confineme	ent Ratio:	9.3						p <u>5. in</u> Flow F				Junicati	<u>ons</u>		
2.10 Confineme	ent Type:	Broad							togulo		(010).	Sm	nall Withdra	awal	
2.11 Reference	e Stream Type:	E						ype:				Otl		awai	
Bedform:		Riffle-Pool					-	Jse: Bridge	hne and	Culve	arte:	01	4	3.0 %	6
Sub-Class	s Slope:	None						Bank					- 698.3	23.1 %	
Bed Mater	rial:	Gravel					5.5	Left:		ng.	234.6		light:	463.7 ft	
<u>Step 3. Basin C</u>	harateristicts						51	Chanr	ol Str	aiahta		994	0	32.9 %	
3.1 Alluvial Fan	n:	None						Dredg		0	anny.	No		32.9 /	2
3.2 Grade Cont	trol:	Ledge						-	-				lie		
3.3 Dominant C	Geological Mat.:	Alluvial	42	.7 %	6						dificatio				_
3.3 Sub-dom. C	Geological Mat.:	Other					6.1	Berms	s & Ro	ads -	old:		,770.8 ft.	58.7	
3.4 Valley Slop	e Left:	Very Steep						_					ne Side	Both Sides	
3.4 Valley Slop	e Right:	Hilly						Road				1	,770.8 ft.	0.0 ft	
3.5 Soils								Railr					0.0 ft.	0.0 ft	
Hydrologic G	Group:	В	54	.5 %	6			Bern					123.1 ft.	0.0 ft	
Flooding:		None/Rare	57	.3 %	6			•	oved F				0.0 ft.	0.0 ft	
Water Table	Deep:	6.0	55	. 0 %	6			Devel	•				180.3 ft.	0.0 ft	•
Water Table	Shallow:	1.5	43	.2 %	6			Chanr					Itiple		
Erodibility:		slight	20	.8 %	6		6.4	Mean	der Mi	gratio	n:	Mig	gration		
7.4 Commen	nts:						6.5	Mean	der Wi	dth:			80 ft. R	ato: 3.3	
Two private cu	ulverts may pre	sent ice/debris jam ris	sks.				6.6	Wave	length				120 ft. R	atio: 4.9	
								<u>p 7. W</u>			<u>irvey</u>				
							7	'.1 Bar	nk Eros	sion:		28	0.236		ft
							7	'.2 Bar	nk Heig	ght:		3			ft
							7	.3 Ice/	/Debris	Jam	Potent	ial: Cu	lvert		-
4.	.1 4.2 4.3	5.1 5.2 5.3 5.4	5.5 6	11	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total	7		
				_									-		
1 Lo		1 0 2 2 Low N.S. High High		2	1 Low	1	1	1	2	1	1	20			

Mill Br	ook	- E	Bas	i	n 1	3							Pha	ase	1 -	Rea	ach	Sun	nmary	Report	:
Basin:		L	owe	r C	Conn	ecticu	ut						Reach				T3.02		<i>y</i>		
Stream Nan	ne:					Broo							SGAT	Versi	on:		4.56				
Topo Maps: Watershed:					-			CAVE	NDISI	ł			Date I QA St	Last Eo	dited:		•	l, 03 201 hecks a	5 ire comple	te	
Sub-waters	hed:												ls Rea	ach An	Impo	undme	ent?:	No	1		
Step 1. Rea	ch Lo	cation											reak is	s locat	ted at	the si	te of a	an old ta	alc mine, a	nd the upper	reach
1.1 Reach D	Descrip	otion:		ł	oreak	is fo	und n	ear Re	eading	g Farm	s Rd.										
1.2 Towns:	Re	ading	I										5	Step 4.	Land	Cover	r - Rea	ach Hydr	<u>ology</u>		
1.3 Downstr	eam L	atitud	e:		4	13.49 1	1384						2	l.1 Wa	tershe	ed					
1.3 Downstr	eam L	ongitu	ude:		-	72.55	3036							Histo	oric La	ind Co	ver:			Forest	
Step 2. Stre	am Ty	<u>/pe</u>												Curr	ent Do	ominar	nt Land	d Cover:		Forest	82.0 %
2.1 Elevatio 2.1 Elevatio							1,0 9	25 70					Z	Curr I.2 Cor		ıb-Dor	ninant	Land C	over:	Urban	
2.1 Is Gradi	ent Ge	entle?:					I	No								ind Co	ver::			Commercial	
2.2 Valley L	ength:					4,	,010.0	ft.		0.76	Mile	es		Curr	ent Do	minar	ntland	d Cover:		Urban	40.0 %
2.3 Valley S	lope:						1	1.4										Land C		Forest	
2.4 Channe	l Leng	th:				4,	,809.8	ft.		0.91	Mile	es	4 २	Ripari					Left Bank		Bank
2.5 Channe	l Slope	e:					1.	13 %						Domina					>100	<u>51-1</u>	
2.6 Sinuosit	,							20						Sub-do		nt:			0-25	0-2	
2.7 Watersh	ned Ar	ea:					3	3.9 Squ	uare N	liles							n 25 ft		833.0 ft	-	3.0 ft.
2.8 Channe	I Width	า:					23	3.7 fee	t					Groun					undant		
2.9 Valley V	Vidth:						420).0 fee	t							•					
2.10 Confine	ement	Ratio	:				17	7.7						p <u>5. in</u> Flow I				lodificati	<u>ons</u>		
2.10 Confine	ement	Туре			١	/ery E	Broad								tegui		(010).	No	ne		
2.11 Refere	nce St	tream	Туре	:	E	Ξ								ype:							
Bedfor	m:				F	Riffle-	Pool							Jse: Bridge	as and		orte:		1	0.3 %	
Sub-Cl	ass S	lope:			1	lone								Bank			5115.		י 2,068.3	0.3 % 43.0 %	
Bed M	aterial	:			(Grave	el						5.5	Left:		U	1,256.			43.0 /0 811.9 ft.	
Step 3. Basi	n Cha	rateris	ticts										E A	Chan					light: 136.8	40.3 %	
3.1 Alluvial	Fan:				1	lone										0	ming.	No		40.3 %	1
3.2 Grade C	Control	:			L	edge	•							Dredg	-				ile		
3.3 Domina	nt Geo	ologica	al Ma	t.:		Alluvi	al			73.3	%						odificat				
3.3 Sub-dor	n. Geo	ologica	al Ma	t.:	C	Other							6.1	Berms	s & Ro	oads -	old:		3,299.8 ft.	68.6	
3.4 Valley S	lope L	eft:			H	lilly								_					ne Side	Both Sides	
3.4 Valley S	lope F	Right:			5	Steep								Road				3	3,299.8 ft.	0.0 ft.	
3.5 Soils															oad:				0.0 ft.	0.0 ft.	
Hydrologi	ic Gro	up:			(2				75.4	%			Bern				1	, 103.4 ft.	0.0 ft.	
Flooding:					F	Frequ	ent			73.3	%			•	oved I				0.0 ft.	0.0 ft.	
Water Ta	ble De	ep:			1	.5				73.3	%			Devel	•				0.0 ft.	0.0 ft.	
Water Ta	ble Sh	allow	:		().0				73.3	%			Chanı					ıltiple		
Erodibility	/:				5	slight				6.1 S	%		6.4	Mean	der Mi	igratio	n:	Μι	ıltiple		
7.4 Comr													6.5	Mean	der W	idth:			70 ft. F	Rato: 2.9	
The lower r														Wave	length	:			145 ft. F	Ratio: 6.1	
shown in the pond at an													a <u>Ste</u>	<u>p 7. W</u>	/indshi	ield Su	<u>urvey</u>				
jam risk.	514 14					a our		. 55511	9 110	. 1145 1	ut		7	'.1 Bar	nk Ero	sion:		44	4.976		ft
													7	.2 Bar	nk Hei	ght:		2			ft
													7	.3 Ice/	/Debris	s Jam	Poten	tial: Cu	lvert		
	4.1	4.2	4.3	Т	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total	_		
	7.1			╀															4		
									0	2	0	0	1	2	1	1	1	17	1		
	1 Low	2 High	2		0 N.S.	0 N.S.	2	2 High	-		-	-	Low	∠ High	-			''			

Mill Br	ook	- E	Bas	in 1	3							Pha	ase	1 -	Rea	ach	Su	mr	mary	Repo	rt
Basin:		L	.ower	Conr	necti	cut						React				T3.0				•	
Stream Nam	ne:		Readir									SGAT	- Versi	on:		4.56					
Topo Maps: Watershed:				•		OUTH							Last E			•	l, 03 20 hecks:		complet	e	
Sub-watersł <u>Step 1. Rea</u>		ation										reak is		d nea	r Rea		N Farms F	-	and the	upper rea	ch break is
1.1 Reach D	Descrip	tion:		toun	d ea	st of th	e intei	rsectio	onorv	vnitm	ore C	ircie a	na Je	nne R	oad.						
1.2 Towns:	Rea	ading	I									\$	Step 4.	Land	Cove	r - Rea	ach Hyd	drolc	<u>ogy</u>		
1.3 Downstr	ream L	atitud	e:		43.5	01634						4	4.1 Wa	tershe	ed						
1.3 Downstr	ream L	ongitu	ıde:		-72.5	55159							Histo	oric La	ind Co	ver:				Forest	
Step 2. Stre	am Ty	<u>pe</u>											Curr	ent Do	ominai	nt Lan	d Cove	r:		Forest	82.0 %
2.1 Elevatio 2.1 Elevatio	n Dow	nstrea	am:			1,0 1,0	25					2	Curr 1.2 Co		ıb-Dor	ninant	Land C	Cove	ər:	Urban	
2.1 Is Gradi		ntle?:					No						Histo	oric La	ind Co	ver::			c	Commerci	al
2.2 Valley L	-					2,610.0			0.49	Mile	es		Curr	ent Do	ominai	nt Lan	d Cove	r:		Urban	33.0 %
2.3 Valley S							1.6						Curr	ent Su	ıb-Dor	ninant	Land C	Cove	ər:	Forest	
2.4 Channel	0					3,090.5			0.59	Mile	es	4.3	Ripari	an Bu	ffer			Le	<u>eft Bank</u>	Rig	nt Bank
2.5 Channel	•):					.38 %					[Domina	ant:					>100	>	100
2.6 Sinuosit							.18					5	Sub-do	minar	nt:				0-25	2	6-50
2.7 Watersh							2.7 Sq		lles			L	ength	w / le	ss tha	n 25 ft	.:	1	,067.0 ft.		104.0 ft.
2.8 Channel		1:					0.2 fee					4.4	Groun	d Wat	er Inp	uts:	Ał	bun	dant		
2.9 Valley W							0.0 fee	et				Ste	n 5. In	stream	n Cha	nnel M	lodifica	tion	s		
2.10 Confine							7.8						Flow				louniou		<u> </u>		
2.10 Confine					•	/ Broad							Гуре:	U		. ,	N	one	•		
2.11 Refere		ream	Туре:		Е								Jse:								
Bedfor					Riffl	e-Pool							Bridge	es and	I Culve	erts:			2	3.4	%
Sub-Cl	ass Sl	ope:			Non	е							Bank					1.0	73.5	34.7	'%
Bed Ma					Grav	vel							Left:		5	1,025	.0 ft.	Righ		48.5	ft.
Step 3. Basii	n Char	ateris	ticts									5.4	Chan		aighte			78.9		15.5	
3.1 Alluvial I	Fan:				Non	е							Dredo		-			one			
3.2 Grade C	Control:				Ledg	ge							p 6. F	-		dificat					
3.3 Domina	nt Geo	logica	l Mat.	:	Allu	vial			66.2	%			Berm:					1 0	24.0 ft.	6	2.3
3.3 Sub-don		0	al Mat.		Till							0.1	Denna	sanu	aus -	olu.			<u>24.0</u> n. <u>e Side</u>	-	-
3.4 Valley S	lope L	eft:			Very	/ Steep							Dee	d.						Both Sic	
3.4 Valley S	lope R	ight:			Very	/ Steep							Roa					1,9	24.0 ft.	0.0	
3.5 Soils													Berr	oad:					0.0 ft. 0.0 ft.	0.0	
Hydrologi	ic Grou	ıp:			D				39.1	%					Deth.					0.0	
Flooding:					Freq	quent			66.2	%				oved I					0.0 ft.	0.0	
Water Ta	ble De	ep:			0.5				39.1	%			Devel	•					0.0 ft.	0.0	π.
Water Ta	ble Sh	allow:			0.0				66.2	%			Chan					lulti	•		
Erodibility	/:				Mod	lerate			33.8	%			Mean		0	n:	M	lulti	•		
7.4 Com													Mean							ato: 2.5	
Culvert und considered	der Rt	106 is	s 6ft v	/ide a	nd h	as son	ne risk	of de	bris ja	mmir	ng. Ris r								100 ft. R	atio: 4.9	
dams/flood					יו שי	cnann	ei ups	tream	and b	eave	ſ	<u>Ste</u>	p 7. W	lindshi	ield Su	<u>urvey</u>					
	-											7	7.1 Bai	nk Ero	sion:		17	78.8	64		ft
												7	7.2 Bai	nk Hei	ght:		2				ft
												7	7.3 Ice	/Debri	s Jam	Poter	ntial: C	ulve	ert		
l l	4.1	4.2	4.3	5.1	5.2	2 5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	al			
					-	_						<u> </u>						_			
	1	2	2	0	0	2	1	0	2	0	1	0	2	2	1	1	17	- I			

Mill Br	ook	K - E	Bas	in 1	3							Pha	ase	1 -	Rea	ach	Su	mn	nary	Repo	ť
Basin:		L	.ower	Conn	ecticu	ıt						Reach	n ID:			T3.04	4				
Stream Nam	ne:	F	Readir	ng Hill	Broo	k						SGAT	Versi	on:		4.56					
Topo Maps: Watershed:		۷	VOOD	STOC	K SO	UTH						Date I QA St		dited:		•	l, 03 20 hecks		complet	e	
Sub-watersh	ned:											ls Rea	ach Ar	i Impo	undm	ent?:	N	o			
<u>Step 1. Rea</u> 1.1 Reach D				Road																ore Circle a the north a	
1.2 Towns:	Re	ading	I	106.								S	Step 4.	Land	Cove	r - Rea	ach Hyd	Irolo	av		
1.3 Downstr					43.508	3495								itershe							
1.3 Downstr					-72.55									oric La		ver:				Forest	
Step 2. Stre		0															d Cove	r:		Forest	83.0 %
2.1 Elevatio 2.1 Elevatio	n Ups	tream				1,1 1,0								ent Su			Land (r:	Urban	
2.1 Is Gradi	ent Ge	entle?:				ľ	No							oric La	nd Co	ver::				Commercia	
2.2 Valley L	ength	:			2,	,850.0	ft.		0.54	Mile	s						d Cove	r-		Urban	, 47.0 %
2.3 Valley S	lope:					2	2.4										Land (r-	Forest	47.0 /0
2.4 Channel	Leng	th:			2,	,902.4	ft.		0.55	Mile	s	43		ian Bu		minant			ft Bank		Bank
2.5 Channel	Slope	e:				2.	39 %						Domina						>100		100
2.6 Sinuosit	y:					1.	02							ominar	t.				0-25		·25
2.7 Watersh	ed Ar	ea:				2	2.2 Squ	uare N	liles							n 25 ft			.431.0 ft.		20 86.0 ft.
2.8 Channel	Width	า:				18	8.5 fee	t					0	d Wat				,. ound		1,0	
2.9 Valley W	/idth:					60).0 fee	t							•						
2.10 Confine	ement	Ratio	:			3	3.2							Regula			lodifica	lions	<u>i</u>		
2.10 Confine	ement	Туре			Semi-	confir	ned							rogui		(010).	N	one			
2.11 Refere	nce S	tream	Type:		В								ype:					0110			
Bedfor	m:				Step-F	Pool							Jse: Brida	es and	Culve	erts:		2	,	3.6	2/6
Sub-Cl	ass S	lope:			None								Ű	Armor		5110.		2,02		69.7	
Bed Ma					Bedro	ock						0.0	Left:		ing.	521	.9 ft.	Righ		1,500.4	
Step 3. Basi	n Cha	rateris	ticts									54		nel Str	aighte		0.	-		0.0	
3.1 Alluvial I	Fan:				None									ging Hi	Ũ	, mig.		redg	iina	0.0	
3.2 Grade C	ontrol	:			Multip	ole							-			odificat					
3.3 Dominai	nt Geo	ologica	al Mat.	: '	Till				92.5 °	%				s & Rc			10115	2 00)1.9 ft.	100	0
3.3 Sub-don	n. Geo	ologica	al Mat.	: .	Alluvi	al						0.1	Delilli	SARU	aus -	010.			Side	Both Side	-
3.4 Valley S	lope L	.eft:			Ext. S	teep							Roa	d			-		<u>3ide</u> 1.9 ft.	<u>BOIN SIDE</u> 0.01	
3.4 Valley S	lope F	Right:		,	Very S	Steep								o. oad:					0.0 ft.	0.0	
3.5 Soils													Berr						0.0 ft.	0.0	
Hydrologi		up:			D				75.9 °					roved I	Dath				0.0 ft.	0.0	
Flooding:					None/	Rare			92.5 °	%		62	•	opmei					0.0 ft.	0.0	
Water Ta		•			6.0				92.5 °					nel Ba			м	ultip		0.0	ι.
Water Ta		allow:			6.0				92.5 °					der Mi		n.		vuls			
Erodibility				,	Very S	Severe	9		92.5 °	%				der W	•		~	vuis		ato: 0.0	
7.4 Com										•	- 11									atio: 0.0	
Some evide tributary er Irene. The u	tering	g fron	the v	vest n	nid rea	ach da	amage	d Rt 1	106 du	ring 1	S	Ste		length /indshi		<u>urvey</u>			N/A N	alio. U.U	
of roadway										5		7	'.1 Bai	nk Ero	sion:		17	73.78	84		ft
												7	'.2 Bai	nk Hei	ght:		5				ft
												7	.3 Ice	/Debri	s Jam	Poten	tial: C	ulve	rt		-
]	4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Tota	I			
	1 Low	2	2	0	0	2 High	0	2	2	0	1	0	0	0	1	2	15				
		High	High	N.S.	N.S.	1.1.12	N.S.	LUIME	High	N.S.	Low	N.S.	N/A	N/A	Low	High		1			

Mill Bro	ook -	В	asi	in	13	3							Pha	ase	1 -	Rea	ach	ι Sι	Jm	mary	Repo	ort	
Basin:		Lo	ower	Co	nne	cticu	t						Reach				T3.0			5	-		
Stream Name	e:	R	eadir	ng H	lill E	Brool	C						SGAT	- Versi	on:		4.56	5					
Topo Maps: Watershed:		W	000	STO	OCK	(501	JTH						Date I QA St	Last E tatus:	dited:		•	il, 03 check		; e comple	te		
Sub-watershe	ed:												ls Rea	ach Ar	lmpo	undme	ent?:		No				
Step 1. Reac	h Locatio	on		Thi	is re	each	follov	ws Rt-	106 a	nd is b	ound	by the	e reac	h bre	aks no	orth a	nd so	uth o	of Ca	per Hill R	d.		
1.1 Reach De	escription	า:																					
1.2 Towns:	Readi	ng											5	Step 4.	Land	Cove	<u>r - Re</u>	ach H	lydro	logy			
1.3 Downstre	am Latit	ude	e:		43	3.515	091						2	4.1 Wa	itershe	ed							
1.3 Downstre	am Long	gitu	de:		-7	2.548	3029							Histo	oric La	nd Co	over:				Forest		
Step 2. Strea	<u>m Type</u>													Curr	ent Do	ominar	nt Lar	d Cov	ver:		Forest		80.0 %
2.1 Elevation 2.1 Elevation			m:				1,2 1,1						4	Curr 1.2 Co	ent Su	ıb-Dor	minan	t Land	d Co	ver:	Urban		
2.1 Is Gradier	nt Gentle	e?:					ľ	No							oric La	nd Co	over::				Commerc	leia	
2.2 Valley Le	ngth:					4,0	675.0	ft.		0.89	Mile	es			ent Do				vor:		Urban		33.0 %
2.3 Valley Slo	ope:						2	2.9							ent Su					ver:	Forest		JJ.U /0
2.4 Channel I	Length:					5,	100.6	ft.		0.97	Mile	es	12	Ripari			mail	. Lan		Left Bank		aht Ba	ank
2.5 Channel S	Slope:						2.	65 %						Domina						0-25	_	>100	
2.6 Sinuosity:	:						1.	09						Sub-do		. .				>100		0-25	
2.7 Watershe	ed Area:						1	I.8 Sq	uare N	liles				_ength			n 25 f	+ ·		2,579.0 ft	1	,790.	0 ft
2.8 Channel \	Width:						16	5.8 fee	t					Groun					Mini			,1 50.	0 n.
2.9 Valley Wi	dth:						80).0 fee	t														
2.10 Confiner	ment Ra	tio:					4	4.8						p <u>5. In</u> Flow					catio	<u>ns</u>			
2.10 Confiner	ment Typ	be:			N	arrov	v								regui		(010).		Nor				
2.11 Referen	ce Strea	m٦	Гуре:		в									Гуре:									
Bedform	n:				St	tep-P	lool							Jse: Bridge	as and	Culve	arte			3	1	8 %	
Sub-Cla	ss Slope	: :			N	one								Bank			5113.			0.0		0%	
Bed Mat	terial:				C	obble	e						5.5	Left:		ing.).0 ft.	Pi			0 /0 0 ft.	
Step 3. Basin	Charate	risti	icts										Б Л	Chan		aiahta		 II.	0.0	gin.	-	0 %	
3.1 Alluvial Fa	an:				N	one								Dredg		0	•		Nor		0.	U /0	
3.2 Grade Co	ontrol:				N	one								-	-								
3.3 Dominant	Geolog	ical	Mat.	:	Ti	ill				48.5 °	%			p 6. F				tions	_				
3.3 Sub-dom.	. Geolog	ical	l Mat.	:	lc	e-Co	ntact						6.1	Berm	s & Ro	ads -	old:			803.0 ft.		55.0	
3.4 Valley Slo	ope Left:				Ve	ery S	teep							-						<u>ie Side</u>			
3.4 Valley Slo	ope Righ	t:			E	xt. St	еер							Roa					2,	803.0 ft.		0 ft.	
3.5 Soils															oad:					0.0 ft.		0 ft.	
Hydrologic	Group:				С					86.8	%			Berr						0.0 ft.		0 ft.	
Flooding:					N	one/F	Rare			78.9 [°]	%				oved I					0.0 ft.		0 ft.	
Water Tab	le Deep:				1.	5				51.5 °	%			Devel	•					314.2 ft.	0.	0 ft.	
Water Tab	le Shallo	w:			0.	0				51.5 °	%			Chan					Poi				
Erodibility:					Ve	ery S	evere	e		78.9 [°]	%			Mean		•	n:		Nor				
7.4 Comme														Mean						-	ato: 0.0		
Reach slope														Wave	0					N/A R	atio: 0.0		
with some m naturally tight										erano	conn	nea by		p 7. N			urvey						
, ,													7	7.1 Bai	nk Ero	sion:			0			t	ťt
													7	7.2 Bai	nk Hei	ght:			No	Data		f	ťt
													7	7.3 Ice	/Debri	s Jam	Poter	ntial:	Cul	vert			
Г	4.1 4.	2	4.3	5.	1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Т	otal	1			
		_																		4			
	1 2		2 Lliab			0 N.S.	0 N.S.	0 N.S.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N/A	0 N/A	0 N.S.	0 N.S.		8				
	Low Hig	111	High	I IN.	3.II	IN.O.	IN.O.	I IN.S.	I IN.S.	1 DION													

Mill Brook - Basin	13				Pha	ase	1 -	Rea	ach	Sum	marv	Repor	t		
Basin: Lower Cor	necticut				Reach				T3.0						
Stream Name: Reading H					SGAT Version: 4.56										
	OCK SOUTH		Date Last Edited: April, 03						03 2015 ecks are complete						
Sub-watershed: Step 1. Reach Location This	s headwaters reach is	found to	the e			ach An 16 and	•			No ure Ques	t Road				
1.1 Reach Description:		iouna to				o una	nora								
1.2 Towns: Reading					ç	Sten 4	Land	Cover	- Rea	ach Hydro	loav				
1.3 Downstream Latitude:	43.526998				_	I.1 Wa			Rec		<u>nogy</u>				
1.3 Downstream Longitude:	-72.553252		-			nd Co	vor:			Forest					
Step 2. Stream Type	-12.333232									d Cover:		Forest	85.0 %		
2.1 Elevation Upstream: 2.1 Elevation Downstream:	1,509 1,272					Curr	ent Su			Land Co	ver:	Urban	03.0 /0		
2.1 Is Gradient Gentle?:	No				4	1.2 Cor		nd Co	vor			-			
2.2 Valley Length:	2,900.0 ft.	0.55	Mile	s								Forest			
2.3 Valley Slope:	8.2									d Cover:		Forest	57.0 %		
2.4 Channel Length:	3,094.0 ft.	0.59	Mile	s	-				ninant	Land Co		Crop	. .		
2.5 Channel Slope:	7.66 %		Willo	0		Ripari		ffer			Left Bank		Bank		
2.6 Sinuosity:	1.07					Domina					>100		00		
2.7 Watershed Area:	0.2 Square	Miles				Sub-do					None		ne		
2.8 Channel Width:	6.2 feet					ength					0.0 ft.		0.0 ft.		
2.9 Valley Width:	20.0 feet				4.4	Groun	d Wate	er Inpu	uts:	Mini	mal				
2.10 Confinement Ratio:	3.2									<u>lodificatio</u>	<u>ns</u>				
2.10 Confinement Type:	Semi-confined				5.1	Flow F	Regula	ation -	(old):						
2.11 Reference Stream Type:	Α				Т	Гуре:				Nor	ie				
Bedform:	Step-Pool				-	Jse:									
Sub-Class Slope:	None					Bridge			erts:		0	0.0 %			
Bed Material:	Boulder		5.3 Bank Armoring:						0.0).0 %				
Step 3. Basin Charateristicts						Left:					ght:	0.0 f			
3.1 Alluvial Fan:	None					Chanr		0	ning:	0.0		0.0 %	6		
3.2 Grade Control:	None				5.5	Dredg	jing Hi	story:		Nor	e				
3.3 Dominant Geological Mat.:	Till		Step 6. Floodplain Modification												
3.3 Sub-dom. Geological Mat.:	Other	76.6 %			6.1	Berms	s & Ro	ads - (old:		0.0 ft.	0.	0		
3.4 Valley Slope Left:	Very Steep									<u>Or</u>	<u>ne Side</u>	Both Side	<u>s</u>		
3.4 Valley Slope Right:	Ext. Steep					Road	d:				0.0 ft.	0.0 f	t.		
3.5 Soils						Railr	oad:				0.0 ft.	0.0 f	t.		
Hydrologic Group:	D	58.4 %	6			Bern	n:				0.0 ft.	0.0 f	t.		
Flooding:	None/Rare	100.0 %				Impr	oved I	Path:			0.0 ft.	0.0 f	t.		
Water Table Deep:	6.0	76.6 %			6.2	Devel	opmer	nt:			0.0 ft.	0.0 f	t.		
Water Table Shallow:	6.0	76.6 %			6.3	Chanr	nel Ba	rs:		Not	Evaluated	l			
Erodibility:	Very Severe	80.7 %			6.4	Mean	der Mi	gratior	า:	Nor	ie				
7.4 Comments:		JU.1 /	U		6.5	Mean	der Wi	idth:			N/A Ra	ato: 0.0			
NULL					6.6	Wave	length	:			N/A Ra	atio: 0.0			
					<u>Ste</u>	p 7. W	/indshi	ield Su	irvey						
			<u>Step 7. Windshield Survey</u> 7.1 Bank Erosion: 7.2 Bank Height:						ft						
									Data						
								•	Poten	itial: Non			ft		
4.1 4.2 4.3 5.	1 5.2 5.3 5.4 5.	5 6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total	1				
											4				
1 0 0 0 Low N.S. N.S. N.S.			0 N.S.	0 N.S.	0 N.S.	0 N/A	0 N/A	0 N.S.	0 N.S.	1					
											1				

Mill Brook - Basin 13											Phase 1 - Reach Summary Report											
Basin:		L	.ower	Conn	ecticut	:						Reach ID: T4.01										
Stream Nan	ne:	E	Bailey	Brook	ĸ							SGAT	Versi	on:								
Topo Maps: WOODSTOCK SOUTH Watershed:									Date I QA St	e												
Sub-waters	hed:											ls Rea	ach An	Impo	undme	ent?:	No)				
<u>Step 1. Rea</u>	ach Loo	ation										t the E	Baileys	s Mills	and	Town	Hill Rd	and contin	ues upstrea	m to the		
1.1 Reach D	Descrip	tion:		reach	n break	Sou	In of I	Aittria	ge Pas	sture	Ra.											
1.2 Towns:	Re	ading	ł									\$	Step 4.	Land	Cove	· - Rea	ich Hyd	<u>rology</u>				
1.3 Downstr	ream L	atitud	e:	4	43.5008	395						2	l.1 Wa	tershe	d							
1.3 Downstr	ream L	ongitu	ıde:		-72.563	159						Historic Land Cover: Forest										
Step 2. Stre	eam Ty	<u>pe</u>											Curr	ent Do	minar	nt Land	d Cover	:	Forest	87.0 %		
2.1 Elevatio 2.1 Elevatio						1,32 1,03						2	Curr I.2 Coi		b-Dor	ninant	Land C	over:	Urban			
2.1 Is Gradi	ient Ge	ntle?:				Ν	lo						Histo	oric La	nd Co	ver::			Forest			
2.2 Valley Length:					7,1	69.7	ft.		1.36	Mile	es		Curr	ent Do	minar	nt Lano	d Cover	:	Urban	29.0 %		
2.3 Valley S							.0										Land C		Forest			
2.4 Channe	•				7,9	13.5			1.50	Mile	es	4.3	Ripari					Left Bank	Right	Bank		
2.5 Channe	•):				3.6	64 %						Domina					>100	>1			
2.6 Sinuosit						1.1	-					5	Sub-do	minar	t:			0-25	51-1	00		
2.7 Watersh							•	uare N	liles			L	.ength	w / les	ss tha	n 25 ft.	.:	980.0 ft	. 22	8.0 ft.		
2.8 Channe		1:					.4 fee					4.4	Groun	d Wate	ər Inpu	uts:	Ab	undant				
2.9 Valley V							.0 feet	t				Ste	p 5. In	strean	n Cha	nnel M	lodificat	ions				
2.10 Confin							.8						Flow I									
2.10 Confine				-	Narrow	1						٦	ype:				No	one				
2.11 Refere		ream	Type:		B D:///								Jse:									
Bedform: Sub-Class Slope:					Riffle-P	'001						5.2	Bridge	es and	Culve	erts:		2	0.7 %)		
		•			None Cobble							5.3	Bank	Armor	ing:			20.6 0.3 %				
Bed Ma Step 3. Basi			ticto		Soldao								Left:			0.	. 0 ft. F	Right:	20.6 ft			
3.1 Alluvial		atens	licis	•	Yes							5.4	Chan	nel Str	aighte	ning:	0.0)	0.0 %	b		
3.2 Grade C					Ledge							5.5	Dredg	jing Hi	story:		Dr	edging				
3.3 Dominal			al Mat		Ice-Contact 72.0 %							Step 6. Floodplain Modification										
3.3 Sub-dor		-			Till							6.1	Berms	s & Ro	ads -	old:	:	2,151.2 ft.	27.2	2		
3.4 Valley S		0	li iviat.		Very St	haan											<u>c</u>	<u>Dne Side</u>	Both Sides	<u>i</u>		
3.4 Valley S					Very St	-							Road	d:			:	2,151.2 ft.	0.0 ft			
3.5 Soils	nohe u					h							Railr	oad:				0.0 ft.	0.0 ft			
Hydrologi	ic Gro	JD:		,	в				74.3	6			Bern	n:				365.7 ft.	0.0 ft			
Flooding:		- F .			– None/R	lare			97.8 9				Impr	oved I	Path:			0.0 ft.	0.0 ft			
Water Ta		ep:			2.5				49.9 9			6.2	Devel	opmer	nt:			584.7 ft.	0.0 ft			
Water Table Shallow:					1.5 52.2 %						6.3 Channel Bars:						Multiple					
water ra					Very Se	evere	1		97.8 9			6.4	Mean	der Mi	gratio	า:	M	ultiple				
Erodibility					7.4 Comments:							6.5	Mean	der W	dth:			N/A Rato: 0.0				
Erodibility	y:											6.6	Wave	length	:				atio: 00			
Erodibility 7.4 Comr Squashed a	y: ments: and sk			ert on														N/A R	allo: 0.0			
Erodibility 7.4 Comr Squashed a sediment/d	y: ments: and sk lebris	jamm	ing is	ert on sues,	increas	sed r	isk of	ice a	nd deb			<u>Ste</u>	<u>p 7. W</u>	<u>'indshi</u>	eld Su	<u>irvey</u>		N/A R	auo. 0.0			
Erodibility 7.4 Comr Squashed a sediment/d Alluvial fan Mill Road c	y: ments: and sk lebris with culvert	jamm sever surin	ing is e sedi 1g TS	ert on sues, iment Irene a	increas deposi and dre	sed r ition edgin	isk of upstro ig. Se	ice aı eam (\ vere r	nd deb west) o nass v	of Bai vastir	leys ng of	7	<u>p 7. W</u> ′.1 Bar			<u>irvey</u>	33	N/A R 98.5	auo. U.U	ft		
Erodibility 7.4 Comr Squashed a sediment/d Alluvial fan Mill Road c valley side	y: and sk lebris n with culvert slope	jamm sever surin s in u	ing is e sedi ng TS pper i	ert on sues, iment Irene a reache	increas deposi and dre es deliv	sed r ition edgin /ered	isk of upstro ig. Se enor	ice aı eam (\ vere r mous	nd deb west) o nass v	of Bai vastir	leys ng of	7		nk Ero	sion:	<u>irvey</u>	33 7		auo. 0.0			
Erodibility 7.4 Comr Squashed a sediment/d Alluvial fan Mill Road c	y: and sk lebris n with culvert slope	jamm sever surin s in u	ing is e sedi ng TS pper i	ert on sues, iment Irene a reache	increas deposi and dre es deliv	sed r ition edgin /ered	isk of upstro ig. Se enor	ice aı eam (\ vere r mous	nd deb west) o nass v	of Bai vastir	leys ng of	7	7.1 Bar 7.2 Bar	nk Ero nk Hei	sion: ght:	-		98.5	ano. U.U	ft ft		
Erodibility 7.4 Comr Squashed a sediment/d Alluvial fan Mill Road c valley side	y: and sk lebris n with culvert slope	jamm sever surin s in u	ing is e sedi ng TS pper i	ert on sues, iment Irene a reache	increas deposi and dre es deliv II Brool	sed r ition edgin /ered	isk of upstro ig. Se enor	ice aı eam (\ vere r mous	nd deb west) o nass v	of Bai vastir	leys ng of	7	7.1 Bar 7.2 Bar	nk Ero nk Hei	sion: ght:	-	7	98.5 Ilvert	ano. U.U			
Erodibility 7.4 Comr Squashed a sediment/d Alluvial fan Mill Road c valley side	y: and sk lebris n with culvert slope nd into	jamm sever surin s in u o dow	ing is e sedi ng TS pper i nstrea	ert on sues, iment Irene a reache am Mil	increas deposi and dre es deliv II Brool	sed r ition edgin /ered k rea	isk of upstro ig. Se enor ch M1	ice ai eam (\ vere r mous 4.	nd deb west) o nass v sedim	of Bai vastir ient lo	leys ng of bad to	7 7 7	7.1 Bar 7.2 Bar 7.3 Ice/	nk Ero nk Hei /Debri:	sion: ght: s Jam	Poten	7 tial: Cu	98.5 Ilvert	ano. U.U			

Mill Br	ook	- B	lasi	in 1	3							Pha	ase	1 -	Rea	ach	Sun	nmary	Repo	ť		
Basin:	sin: Lower Connecticut										Reach ID: T4.02							-				
Stream Nan	ne:	E	ailey	ey Brook								SGAT Version: 4.56										
Topo Maps: Watershed:	spo mapo.						TH, WOODSTOCK SOUTH									•	l, 03 201 hecks a	5 re complet	e			
Sub-watersl <u>Step 1. Rea</u> 1.1 Reach D	ch Loca					begir s nort				am ro		ls Rea break		•			No ure Rd. :		ls west up	into the		
1.2 Towns: Reading										5	Step 4.	Land	Cove	r - Rea	ach Hydr	ology						
1.3 Downstr	eam La	atitud	e:	4	43.51 ⁻	1916						<u>Step 4. Land Cover - Reach Hydrology</u> 4.1 Watershed										
1.3 Downstr	eam Lo	ongitu	ıde:	-	72.58	35564							Histo	oric La	nd Co	ver:			Forest			
Step 2. Stream Type													Curr	ent Do	ominar	nt Lan	d Cover:		Forest	90.0 %		
2.1 Elevation Upstream: 2.1 Elevation Downstream:					2,044 1,325							2	Curr I.2 Col		ıb-Dor	ninant	Land Co	over:	Urban			
2.1 Is Gradi	ent Ger	ntle?:				1	No						Histo	oric La	nd Co	ver::			Forest			
2.2 Valley L	ength:				13	,850.0	ft.		2.62	Mile	es		Curr	ent Do	ominar	nt Lan	d Cover:		Forest	57.0 %		
-	2.3 Valley Slope:						5.2											over:	Urban	2		
	2.4 Channel Length:				15,539.2 ft. 2.94 M							Current Sub-Dominant Lar 4.3 Riparian Buffer						Left Bank	Bank			
2.5 Channe	I Slope:				4.62 %							2.3 Ripanan Buller Dominant:						>100		>100		
	2.6 Sinuosity:					1.12							Sub-do		nt:			None		one		
	2.7 Watershed Area:					3.3 Square Miles							ength			n 25 ft		0.0 ft	0.0 ft.			
2.8 Channel Width:					22.2 feet							4.4 Ground Water						undant	-			
2.9 Valley V	Vidth:					85	5.0 fee	t									Iodificati					
2.10 Confin	ement F	Ratio				3	3.8										iounicati	<u>JII5</u>				
2.10 Confin	ement 7	Гуре:		9	Semi-confined							5.1 Flow Regulation - (old): Type:						None				
2.11 Refere	nce Str	eam	Type:	I	В								•••									
Bedform:				9	Step-Pool							Use: 5.2 Bridges and Culverts:						1 0.2 %				
Sub-Class Slope:				I	None							5.3 Bank Armoring:						0.0 0.0 %				
Bed Ma	aterial:			(Cobble							Left: 0.0							it.			
Step 3. Basi	n Chara	ateris	ticts									54	Chan		ainhte		0.0	-	0.0			
3.1 Alluvial	Fan:			I	None										0	anng.	No		0.0	/0		
3.2 Grade C	Control:			I	None							5.5 Dredging History: None Step 6. Floodplain Modifications										
3.3 Domina	nt Geol	ogica	l Mat.	:	Till 57.2 %							6.1 Berms & Roads - old:										
3.3 Sub-dor	n. Geol	ogica	l Mat.	: /	Alluvi	ial						6.1	Berm	s & Ro	ads -	old:		0.0 ft.	-	.0		
3.4 Valley S	lope Le	eft:		I	Ext. S	steep							-				<u>0</u>	ne Side	Both Side			
3.4 Valley S	lope Ri	ght:		I	Ext. Steep								Roa					0.0 ft. 0.0 ft. 0.0 ft. 0.0 ft.				
3.5 Soils														oad:				0.0 ft.				
Hydrologic Group:				(C 54.5 %							Berm:						0.0 ft. 0.0 ft.				
Flooding:				I	None/Rare 78.1 %							Improved Path:						0.0 ft.	0.0			
Water Table Deep:					2.5 47.7 %							6.2 Development:						0.0 ft.	0.0	t.		
Water Ta	ble Sha	allow:			1.0 54.3 %							6.3 Channel Bars:						Multiple				
Erodibility	/:			\$	Severe 57.2 %							6.4 Meander Migration:						Multiple				
7.4 Comments:								6.5 Meander Width:						N/A Rato: 0.0								
Did not visi													Wave	0				N/A R	atio: 0.0			
wasting thr load to dow					werr	each	contri	buting	y nuge	sean	nent		<u>p 7. W</u>			<u>irvey</u>						
												7	'.1 Baı	nk Ero	sion:		25	61.3		ft		
												7	.2 Baı	nk Hei	ght:		6			ft		
												7	.3 Ice	/Debris	s Jam	Poter	ntial: No	t Evaluate	ł			
ſ	4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total	Г				
					——			<u> </u>		•		2	0		<u> </u>		<u> </u>	-1				
	1							0 0 0 0 0 0 0 0 2 N.S. N.S. N.S. N.S. N.S. Unk. N.S. Hig						0	1	0	7					