

Chipmunk Solar

Exhibit Q

Ecological Assessment Report

Filing 7 of 10

Case No. 21-0960 EL BGN

APPENDIX D

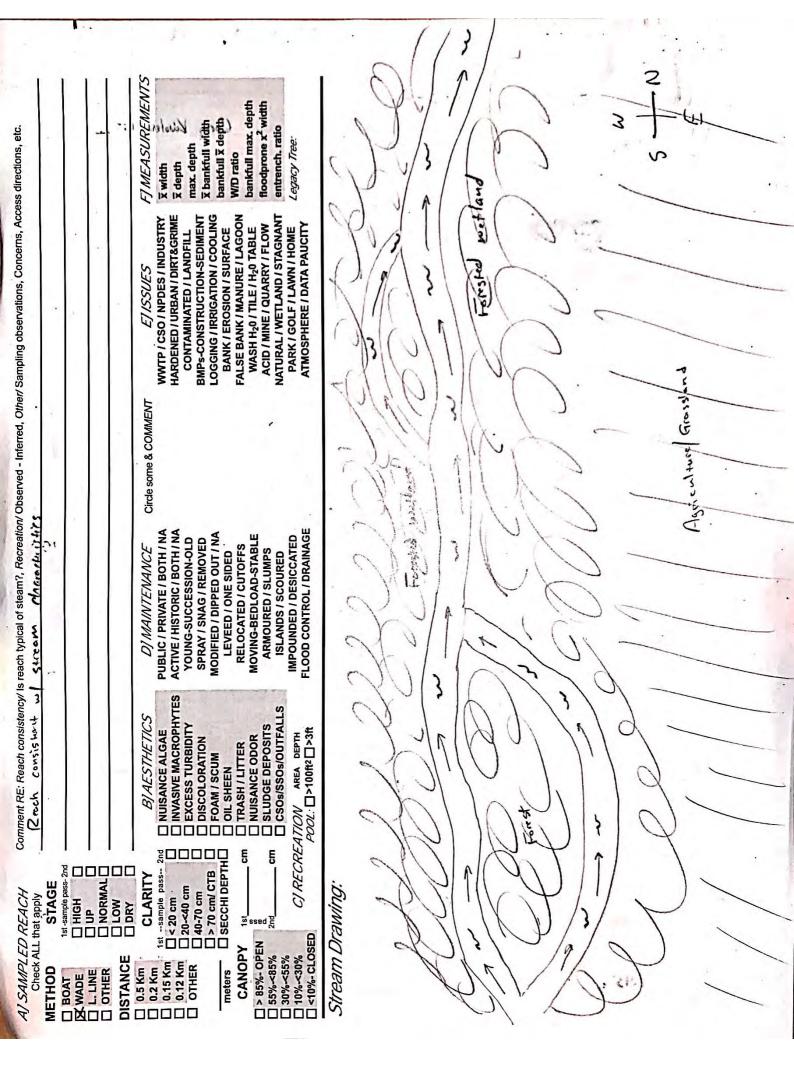
QHEI/HHEI Stream Evaluation Data Forms

HULL & ASSOCIATES, LLC DUBLIN, OHIO **OhioEPA**

Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

OHEI Score: 76.5

Stream & Location: Dee			M14.8 Date 2 30 21
River Code: 0 0 2- 3 0 0- 0		101/1000	ory Kwolur ESI
11 SUBSTRATE Check ONLY	vo substrate TYPE BOXES:	(NAD 83 - decimal 9 3 4 - 6 0 6 7	183.1236 Unice Verifican
BEST TYPES POOL RII	note every type present FILE OTHER TYPES POOR HARDPAN [4]	ORIGIN SIMESTONE [1]	(Or 2 & average) QUALITY [] HEAVY [-2]
BOULDER [9] COBBLE [8] GRAVEL [7]	DETRITUS [3]	☐ TILLS [1] ☐ WETLANDS [0] ☐ ☐ HARDPAN [0]	SILT MODERATE [-1] Substrate [-1] Substrate [-1] Substrate [-1] FREE [1]
SAND [6] 15% 16% NUMBER OF BEST TYPES:	Sele	SANDSTONE [0] ales; ignore RIP/RAP [0] ales; ignore RIP/RAP [0] SHALE [-1] COAL FINES [-2]	DDEON DEXTENSIVE [-2] DIMODERATE [-1] Maximum NONE [1]
2] INSTREAM COVER Indicate	e presence 0 to 3: 0-Absent; 1-Ver	y small amounts or if more common of	marginal AMOUNT
quality: 3-mignest quality in modera	te of greater amounts (e.g., very la eloped rootwad in deep / fast wate POOLS > 70cm [2 DN [1] ROOTWADS [1] ER) [1] BOULDERS [1]	ighest quality or in small amounts of highest quality or in small amounts of highest quality or in deep or fast water, large, or deep, well-defined, functional pool of the company of the	EXTENSIVE > 75% [11] MODERATE 25-75% [7] SPARSE 5-<25% [3] NEARLY ABSENT <5% [1]
Comments	9		Maximum 20
3] CHANNEL MORPHOLOGISINUOSITY DEVELOPMENT	[18]		
☐ HIGH [4] ☐ EXCELLE ☐ MODERATE [3] ☐ GOOD [5] ☐ LOW [2] ☐ FAIR [3] ☐ NONE [1] 3 ☐ POOR [1] Comments	RECOVERED [4]	☐ HIGH [3] ☐ MODERATE [2] ☐ LOW [1] ② COVERY [1]	Channel Maximum
River right looking downstream EROSION NONE / LITTLE [3] MODERATE [2] HEAVY / SEVERE [1]	RIPARIAN WIDTH WIDE > 50m [4]	SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD [1] FENCED PASTURE [1]	er bank & average) CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] URBAN OR INDUSTRIAL [0] URBAN OR INDUSTRIAL [0] Indicate predominant land use(s) past 100m riparian. Riparian Maximum
EL DOOL LOUDE AND DIEL	TE LOUNGUALITY		10
Check ONE (ONLY!) □ > 1m [6] □ POOI □ 0.7-<1m [4] □ 0.4-<0.7m [2] □ 0.2-<0.4m [1] □ < 0.2m [0] □ 4	CHANNEL WIDTH eck ONE (Or 2 & average) WIDTH > RIFFLE WIDTH [2] WIDTH = RIFFLE WIDTH [1]	CURRENT VELOCITY Check ALL that apply TORRENTIAL [-1] SLOW [1] VERY FAST [1] INTERSTITIAL FAST [1] SEDDIES [1] Indicate for reach - pools and riffles.	Pool/ Current
Comments			Maximum 12
of riffle-obligate species	Check ONE	large enough to support a p (Or 2 & average). / RUN SUBSTRATE RIFFLE	opulation ☐NO RIFFLE [metric=(
	XIMUM > 50cm [2] ☑ STABLE (XIMUM < 50cm [1] ☑ MOD. STA UNSTABL		□ NONE [2] □ LOW [1] □ MODERATE [0] □ EXTENSIVE [-1] Maximum Maximum
6] GRADIENT (7.3 ft/mi)	☐ VERY LOW - LOW [2-4]		GLIDE: 50*lb Gradient
	HIGH - VERY HIGH [10-6]	%RUN: (෭෧%)%R	RIFFLE: 20% Maximum 10

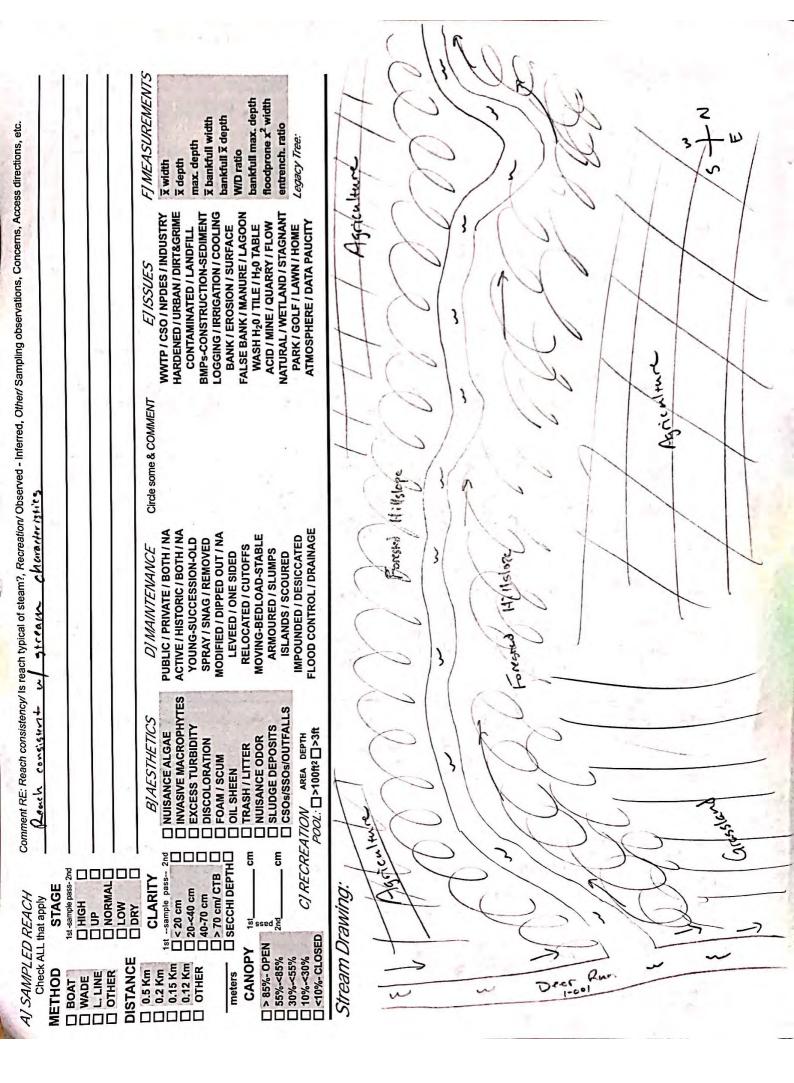


OhioEPA

Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

OHEI Score: 66.5

Stream & Location: Dru	Run (2-002); Picker	way County RM:	00 L.o Date: 81 30/21
		lame & Affiliation: Cony	Kwolek/ESI
River Code: 0 02- 3 04- 0 005	10AL 1 #	Long. 39 . 6 L B 3 183	.1283 Office verified location
1] SUBSTRATE Check ONLY Two substructions or note ever	rate TYPE BOXES; ry type present	Check ONE (Or 2	& average)
BEST TYPES POOL RIFFLE	OTHER TYPES POOL RIFFLE	ORIGIN	QUALITY
	☐ HARDPAN [4]	TILLS [1] SILT	☐ HEAVY [-2] ☐ MODERATE [-1] Substrate
☐ COBBLE [8] 600/0 25	☐ MUCK [2]	☐ WETLANDS [0] ☐ HARDPAN [0]	NORMAL [0]
]	SANDSTONE [0] CODE	EXTENSIVE [-2]
BEDROCK [5] St. St.	(Score natural substrates; ignore more [2] sludge from point-sources	RIP/RAP [0]	☐ EXTENSIVE [-2] ☐ MODERATE [-1] Maximum 20 ☐ NONE [1]
	less [0] 2	SHALE [-1]	NONE [1]
Commens		COAL FINES [-2]	
2] INSTREAM COVER Indicate presen	ce 0 to 3: 0-Absent; 1-Very small an	nounts or if more common of marg	inal AMOUNT
quality: 3-Highest quality in moderate or gre	erate amounts, but not of highest qua ater amounts (e.g., very large bould	ers in deep or fast water, large	Check ONE (Or 2 & average) EXTENSIVE >75% [11]
diameter log that is stable, well developed rules under UNDERCUT BANKS [1]	POOLS > 70cm [2]	OXBOWS, BACKWATERS [1]	☑ MODERATE 25-75% [7]
OVERHANGING VEGETATION [1]		AQUATIC MACROPHYTES [1] LOGS OR WOODY DEBRIS [1]	 ☐ SPARSE 5-<25% [3] ☐ NEARLY ABSENT <5% [1]
SHALLOWS (IN SLOW WATER) [1] O ROOTMATS [1]	O BOULDERS [1] 2.	LOGS OK WOOD! DEBKIS [1]	1 Cover
Comments	9		Maximum 16
ST CHANNEL MODELICI CONCENT	ONE in each enterent (Or 2 & aver	000)	
3] CHANNEL MORPHOLOGY Check SINUOSITY DEVELOPMENT	CHANNELIZATION	STABILITY	
☐ HIGH [4] ☐ EXCELLENT [7]	☑ NONE [6]	☐ HIGH [3]	
 MODERATE [3] □ GOOD [5] □ FAIR [3] 	RECOVERED [4]	☑ MODERATE [2] □ LOW [1] 2	
□ NONE [1] 3 □ POOR [1] 5	RECENT OR NO RECOVERY	1]	Channel Maximum 15
Comments			20
4] BANK EROSION AND RIPARIA. River right looking downstream RIPAR		gory for EACH BANK (Or 2 per bar	nk & average)
River right looking downstream RIPAR	IAN WIDTH FLO	OOD PLAIN QUALITY SWAMP [3]	CONSERVATION TILLAGE [1]
River right looking downstream RIPAR EROSION	IAN WIDTH FLO 50m [4]	SWAMP [3] ROLD FIELD [2]	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0]
River right looking downstream RIPAR EROSION	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1]	SWAMP [3] GROUP FIELD [2] GROUP FIELD [2] GROUP FIELD [1] GROU	CONSERVATION TILLAGE [1]
River right looking downstream RIPAR EROSION WIDE > 9 NONE / LITTLE [3] NODERA MODERATE [2] NARROW KIPAR WIDE > 9 MODERATE [1] VERY NA NONE [0]	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] OPEN PAS	SWAMP [3] GROUP FIELD [2] GROUP FIELD [2] GROUP FIELD [1] GROU	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian
River right looking downstream RIPAR EROSION WIDE > 5 NONE / LITTLE [3] MODERA MODERATE [2] NARROV KIPAR	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] FLC RESIDENT □ RESIDENT	SWAMP [3] GROUP FIELD [2] GROUP FIELD [2] GROUP FIELD [1] GROU	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s)
River right looking downstream EROSION NONE / LITTLE [3] MODERATE [2] MODERATE [2] NONE [0] Comments RIPAR NUMBER NONE [0] Comments	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1]] 3	SWAMP [3] R OLD FIELD [2] IAL, PARK, NEW FIELD [1] ASTURE [1] STURE, ROWCROP [0] R OLD FIELD [2] Indication past	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10
River right looking downstream RIPAR REROSION	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] 3 VIN QUALITY NEL WIDTH FLC P FOREST, S	SWAMP [3] R OLD FIELD [2] RAL, PARK, NEW FIELD [1] RASTURE [1] STURE, ROWCROP [0] RRENT VELOCITY	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential
River right looking downstream RIPAR REROSION NONE / LITTLE [3] NONE / LITTLE [3] NONE / LITTLE [3] NONE / LITTLE [3] NONE / NONE [0] Comments 5] POOL / GLIDE AND RIFFLE / REMAXIMUM DEPTH Check ONE (ONLY!) NONE [0] POOL WIDTH	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] OPEN PAS 2/// QUALITY NEL WIDTH E (Or 2 & average) > RIFFLE WIDTH [2] FOREST, S FOREST, S OPEN PAS OPEN PAS CUN QUALITY NEL WIDTH CUI TORREN	SWAMP [3] R OLD FIELD [2] IAL, PARK, NEW FIELD [1] STURE, ROWCROP [0] RRENT VELOCITY Check ALL that apply TIAL [-1] SLOW [1]	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact
River right looking downstream RIPAR REROSION NONE / LITTLE [3] NONE / LITTLE [3] NONE / LITTLE [3] NONE / LITTLE [3] NONE / NONE [0] Comments 5] POOL / GLIDE AND RIFFLE / RE MAXIMUM DEPTH Check ONE (ONLY!) NONE [0] Check ONE (ONLY!) NONE [0] POOL WIDTH Check ONE (ONLY!) NONE [0] POOL WIDTH	IAN WIDTH 50m [4] 50m [4] 51 FOREST, S ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] OPEN PAS 3 VIN QUALITY NEL WIDTH E (Or 2 & average) > RIFFLE WIDTH [2] = RIFFLE WIDTH [1] VERY FA	SWAMP [3] R OLD FIELD [2] IAL, PARK, NEW FIELD [1] STURE, ROWCROP [0] RRENT VELOCITY Sheck ALL that apply TIAL [-1] SLOW [1] ST [1] INTERSTITIAL [-1]	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact Secondary Contact Secondary Contact Secondary Contact Secondary Contact Secondary Contact
River right looking downstream RIPAR REROSION NONE / LITTLE [3] NONE / LITTLE [4] NONE / LITTLE [3] NONE / LITTLE [4] NO	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] 3 CIV OUALITY NEL WIDTH E (Or 2 & average) > RIFFLE WIDTH [2] = RIFFLE WIDTH [1] < RIFFLE WIDTH [1] < RIFFLE WIDTH [2] ARROW < 5m [1] ARROW < 5m [1]	SWAMP [3] R OLD FIELD [2] IAL, PARK, NEW FIELD [1] PASTURE [1] STURE, ROWCROP [0] RRENT VELOCITY Sheck ALL that apply TIAL [-1] SLOW [1] ST [1] INTERSTITIAL [-1] INTERMITTENT [-2] ATE [1] EDDIES [1]	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back)
River right looking downstream RIPAR REROSION NONE / LITTLE [3] NONE / LITTLE [4] NO	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] 3 CIV OUALITY NEL WIDTH E (Or 2 & average) > RIFFLE WIDTH [2] = RIFFLE WIDTH [1] < RIFFLE WIDTH [1] < RIFFLE WIDTH [2] ARROW < 5m [1] ARROW < 5m [1]	ROD PLAIN QUALITY SWAMP [3] ROLD FIELD [2] IAL, PARK, NEW FIELD [1] RASTURE [1] STURE, ROWCROP [0] REPROPERTY SHECK ALL that apply TIAL [-1] ST [1]	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum
River right looking downstream RIPAR REROSION SIMPLE [3] MODERATE [2] MODERATE [2] MODERATE [2] MODERATE [1] MODERATE [1] MODERATE [2] MODERATE [1] MODERATE [2] MODERATE [3] MODERATE [4] MODERATE [4] MODERATE [4] MODERATE [4] MODERATE [5] MODERATE [6] MODERATE [6] MODERATE [6] MODERATE [6] MODERATE [7]	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] ARROW < 5m [1] OPEN PAS 3 VIN QUALITY NEL WIDTH E (Or 2 & average) > RIFFLE WIDTH [2] = RIFFLE WIDTH [1] < RIFFLE WIDTH [1] ARROW < 5m [1] OPEN PAS CUIT TORREN FAST [1] MODERA Indicate	RRENT VELOCITY theck ALL that apply trial [-1] Stow [1] ST [1] Interstitial [-1] ST [1] Interstitial [-1] ST [1] DEDDIES [1]	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12
River right looking downstream RIPAR REROSION SIMPLE [3] MODERATE [2] MODERATE [2] MODERATE [2] MODERATE [1] MODERATE [2] MODERATE [2] MODERATE [1] MODERATE [2] MODERATE [3] MODERATE [4] MODERATE [4] MODERATE [4] MODERATE [4] MODERATE [5] MODERATE [6] MODERATE [6] MODERATE [7]	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] ARROW < 5m [1] OPEN PAS 3 VIN QUALITY NEL WIDTH E (Or 2 & average) > RIFFLE WIDTH [2] = RIFFLE WIDTH [1] < RIFFLE WIDTH [1] ARROW < 5m [1] OPEN PAS CUIT TORREN FAST [1] MODERA Indicate	RRENT VELOCITY Check ALL that apply TIAL [-1] SLOW [1] ST [1] INTERSTITIAL [-1] ST [1] INTERSTITIAL [-1] For reach - pools and riffles. Tonough to support a popular reage).	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12 Ation NO RIFFLE [metric=0]
River right looking downstream RIPAR REROSION SIMPLE SIMPL	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] BEL WIDTH CUP E (Or 2 & average) RIFFLE WIDTH [2] RIFFLE WIDTH [1] RIFFLE WIDTH [1] RIFFLE WIDTH [1] CUP ARROW < 5m [1] FAST [1] MODERA Indicate Check ONE (Or 2 & average) Check ONE (Or 2 & average)	RRENT VELOCITY theck ALL that apply tial [-1] Stow [1] Stor reach - pools and riffles. To reach - pools and riffles. To reach to support a popular reage). SUBSTRATE RIFFLE / R	Recreation Potential Primary Contact Secondary C
River right looking downstream RIPAR REROSION STATE ST	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] BEL WIDTH E (Or 2 & average) RIFFLE WIDTH [2] RIFFLE WIDTH [1] RIFFLE WIDTH [2] RIFFLE WIDTH [1] RIFFLE WIDTH [1] CHECK ONE (Or 2 & average) Check ONE (Or 2 & average) SOOM [2] STABLE (e.g., Cobb	RRENT VELOCITY theck ALL that apply tial [-1] Stor (Factor) in the store (Factor) in the	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool/ Current Maximum 12 UN EMBEDDEDNESS NONE [2] LOW [1]
River right looking downstream RIPAR REROSION SIMPLE SIMPL	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] BEL WIDTH CUP E (Or 2 & average) RIFFLE WIDTH [2] RIFFLE WIDTH [1] RIFFLE WIDTH [1] RIFFLE WIDTH [1] CUP ARROW < 5m [1] FAST [1] MODERA Indicate Check ONE (Or 2 & average) Check ONE (Or 2 & average)	RENT VELOCITY Theck ALL that apply TIAL [-1] SLOW [1] ST [1] INTERSTITIAL [-1] ST [1] INTERSTITI	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool/ Current Maximum 12 UN EMBEDDEDNESS NONE [2] LOW [1] MODERATE [0]
River right looking downstream RIPAR REROSION SIMPLE [3] MODERATE [2] MAXIMUM MODERATE [2] MODERATE [2] MAXIMUM MODERATE [2] MOD	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] BE COPEN PAS 3 CIVI QUALITY NEL WIDTH E (Or 2 & average) RIFFLE WIDTH [2] RIFFLE WIDTH [3] RIFFLE WIDTH [6] ARROP FAST [1] CHECK ONE (Or 2 & average) Check ONE (Or 2 & average) SEPTH RIFFLE / RUN S 50cm [2] STABLE (e.g., Cobbe 50cm [1] MOD, STABLE (e.g., Cobbe 50cm [1	RENT VELOCITY Theck ALL that apply TIAL [-1] SLOW [1] ST [1] INTERSTITIAL [-1] ST [1] INTERSTITI	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact Secondary Contact Current Maximum 12 Jation NO RIFFLE [metric=0] UN EMBEDDEDNESS NONE [2] LOW [1] MODERATE [0] RIFFLE [MITTER [1] RIFFLE [MITTER [1]
River right looking downstream RIPAR REROSION NONE / LITTLE [3] MODERATE [2] MODERATE [2] MODERATE [2] NARROW LITTLE [3] MODERATE [2] MODERATE [2] MARROW LITTLE [3] MODERATE [2] MARROW CHAN COMME [0] Comments 5] POOL / GLIDE AND RIFFLE / RU MAXIMUM DEPTH Check ONE (ONLY!) Check ONE POOL WIDTH MODERATE [3] MODERATE [4] POOL WIDTH MODERATE [4] MODERATE [5] Comments Indicate for functional riffles; Indicate for functional rif	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] ARROW < 5m [1] OPEN PAS 3 VIN QUALITY NEL WIDTH E (Or 2 & average) > RIFFLE WIDTH [2] = RIFFLE WIDTH [1] 2 Best areas must be large encheck ONE (Or 2 & average) Check ONE (Or 2 & average) EPTH RIFFLE / RUN S > 50cm [2] STABLE (e.g., Cobbe 50cm [2] MOD. STABLE (e.g., Final Park 50cm	RRENT VELOCITY Check ALL that apply TIAL [-1] SLOW [1] ST [1] INTERSTITIAL [-1] For reach - pools and riffles. The country of	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool/ Current Maximum 12 UN EMBEDDEDNESS NONE [2] LOW [1] MODERATE [0] RIFFLE [metric=0] WITH RUN EXTENSIVE [-1] Maximum 18
River right looking downstream RIPAR REROSION SIND WIDE >: WIDE >: MODERATE [2] NARROW RIPAR NONE [0] Comments OAND COMMENT	IAN WIDTH 50m [4] ATE 10-50m [3] V 5-10m [2] ARROW < 5m [1] BE COPEN PAS 3 CIVI QUALITY NEL WIDTH E (Or 2 & average) RIFFLE WIDTH [2] RIFFLE WIDTH [3] RIFFLE WIDTH [6] ARROP FAST [1] CHECK ONE (Or 2 & average) Check ONE (Or 2 & average) SEPTH RIFFLE / RUN S 50cm [2] STABLE (e.g., Cobbe 50cm [1] MOD, STABLE (e.g., Cobbe 50cm [1	ROD PLAIN QUALITY SWAMP [3] ROLD FIELD [2] IAL, PARK, NEW FIELD [1] PASTURE [1] Indica past RRENT VELOCITY THE CALL that apply TIAL [-1] SLOW [1] ST [1] INTERSTITIAL [-1] INTERMITTENT [-2] ATE [1] DEDDIES [1] For reach - pools and riffles. C INCOMPANY TO SUPPORT A POPULATION OF THE POPULATION OF T	CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0] MINING / CONSTRUCTION [0] ate predominant land use(s) 100m riparian. Riparian Maximum 10 Recreation Potential Primary Contact Secondary Contact (circle one and comment on back) Pool / Current Maximum 12 UN EMBEDDEDNESS NONE [2] LOW [1] MODERATE [0] EXTENSIVE [-1] Maximum No Riffle Run EXTENSIVE [-1] Maximum No Riffle Run Riffle



TE NAME OCATION	17911 AL-		HHEI Score (sum o		
ITE NAME/LOCATION		munk Salar		MINIOR	
ENGTH OF STREAM I	FACH (#) 200 F	1 LAT 29 107557	RIVER CODE [30] LONG -23, 1299	PRAINAGE AREA (MP)	0
ATE 8/30/2021	SCORER F. MILL	SON COMMENTS	Drainage area Capte	RIVER MILE	
			rater Habitat Evaluation Index		
THE PROPERTY CONTRACTOR VALUE	OF FAR COMPA	780HTL/955 790/F	Vites,	A second company	
REAM CHANNEL N	IODIFICATIONS:	NONE / NATURAL CH	ANNEL RECOVERED REC	OVERING RECENT OR N	IO RECO
SUBSTRATE (atimate nament of	aventus seema	the state of the s		
(Max of 32). Add	a total number of sign	ifficant substrate types	chack <i>ONLY <u>two</u> predomi</i> nant subs found (Max of 8), Final metric scor	e is sum of boxes A & B	HHE
BLDR SLAB		PERCENT TYPE	SILT [3 pt]	PERCENT	Metr
BOULDER	>256 mm) [16 pts]		LEAF PACKWOODY DEBRIS		Point
BEDROCK	[16 pts] 5-256 mm) [12 pts]		FINE DETRITUS [3 pts]	10_	Substi Max =
GRAVEL (2	-64 mm) [9 pts]	<u>us</u>	CLAY or HARDPAN [0 pt] MUCK [0 pts]	~ _	
SAND (<2 m	nm) [6 pts]	20	ARTIFICIAL [3 pts]	Sindly	19
Total of Pero	centages of er, Cobble, Bedrock	C9. (A)		/81	A+8
ORE OF TWO MOST	PREDOMINATE SUI	BSTRATE TYPES:	TOTAL NUMBER OF SUBS	TRATE TYPES: 4	ATE
> 30 centimeters	[20 pts]		storm water pipes) (Check ON 5 cm - 10 cm [15 pts]	LYone box):	Max =
> 22.5 - 30 cm [> 10 - 22.5 cm [30 pts] 25 pts]		☐ < 5 cm [5pts] ☐ NO WATER OR MOIST CHA	NNEL [Opts]	15
	N/A		MAXIMUM POOL DEPT	H (centimeters): 10	Sidne
COMMENTS				Security and Contract of the C	
	IDTH (Measuredas	theaverage of 3-4 m	easurements) (Check ONLYo	ne box);	Bankf
BANK FULL W	13') [30 pts]	3.0	> 1.0 m - 1.5 m (> 3' 3" - 4" 8"		Banki
BANK FULL W 3.0 meters (> 1		and a second			Widti Max=3
BANK FULL W > 4.0 meters (> ' > 3.0 m - 4.0 m (> 1.5 m - 3.0 m (13') [30 pts] (> 9' 7'-13') [25 pts]	and a second	> 1.0 m -1.5 m (> 3'3" -4'8" ≤1.0 m (≤3'3")[5 pts]	[[15pte]	Widt
BANK FULL W 3.0 meters (> 1	13') [30 pts] (> 9' 7'-13') [25 pts]	and a second	> 1.0 m - 1.5 m (> 3' 3" - 4" 8"	[[15pte]	Widt Max=
BANK FULL W > 4.0 meters (> ' > 3.0 m - 4.0 m (> > 1.5 m - 3.0 m ((3') [30 pts] > 9' 7'-13') [25 pts] > 4' 8" - 9' 7") [20 pts 	This informati	> 1.0 m -1.5 m (> 3' 3" -4' 8" ≥ 1.0 m (≤ 3' 3")[5 pts] AVERAGE BANKFULL on mustalso becompleted	WIDTH (meters)	Widt Max=
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ų.	HEI PERFORMED? Yes No QHEI Score (If Yes, Attach Completed QHEI form)
	OWNSTREAM DESIGNATED USE(S) Distance from Evaluated Stream O.O
☐ CWH N	Plates for Furbaled Street
□ EWH N	The second secon
	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
USGS Que	drangle Name: Five Points NRCS Soil Map Page: NRCS Soil Map Stream Order:
	Pickaumy Township/City: Deer Creek Williams port
	Conditions? (Y/N): \(\triangle \) Date of last precipitation: \(\triangle \) Quantity: \(\triangle \)
	umentation Notes: Upstream, Dawnstream + Substrate
	urbidity?(Y/N): D Canopy (% open):
Were sam	oles collected for waterchemistry?(Y/N): Lab Sample # or ID (attach results):
	ures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)
is the sam	pling reach representative of the stream (Y/N) \(\frac{1}{2} \) If not, explain: \(\frac{1}{2} \)
Additional	comments/description of pollution impacts:
-	BIOLOGICAL OBSERVATIONS
	(Record all observations below)
	rved? (Y/N) N Species observed (if known): 1/A
Frogs or T	adpoles Observed? (Y/N) N Species observed (if known): NA
Frogs or T Salamando	edpoles Observed? (Y/N) N Species observed (if known): NA Pris Observed? (Y/N) N Species observed (if known); N/A
Frogs or T Salamando Aquatic Ma	rs Observed? (Y/N) N Species observed (if known): NA croinvertebrates Observed? (Y/N) N Species observed (if known): NA
Frogs or T Salamando Aquatic Ma	edpoles Observed? (Y/N) N Species observed (if known): NA Pris Observed? (Y/N) N Species observed (if known); N/A
Frogs or T Salamando Aquatic Ma	rs Observed? (Y/N) N Species observed (if known): NA croinvertebrates Observed? (Y/N) N Species observed (if known): N/A Regarding Biology: N/A
Frogs or T Salamando Aquatic Ma	rs Observed? (Y/N) N Species observed (if known): NA recoinvertebrates Observed? (Y/N) N Species observed (if known): NA Regarding Biology: NA DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)
Frogs or T Salamando Aquatic Ma	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location
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Frogs or T Salamando Aquatic Ma	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location CAD FIELDS
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Frogs or T Salamande Aquatic Ma Comments	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location CAD FIELDS
Frogs or T Salamande Aquatic Ma Comments	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location COLOR FIELDS 1-003

TE NAME OCATION 1701	01			1
TE NAME/LOCATION <u>1784</u> TE NUMBER 1-004 RA	Chipmunk Salar VER BASIN Scioto River RN	EU CODE - 00	ANIAGE ASSESSMENT OF S	
NGTH OF STREAM REACH (1) 200 ft LAT 39.625856	1000 - 82 12050	AINAGE AREA (MP) <u>0,0</u>	00
ATE 80/30/2021 SCORER	E.Wilson COMMENTS	_ LUNG	E RIVER MILE	_
	This Form - Refer to "Headwater!			
CANADA TE MARKET MARKET THE PROPERTY AND THE	There is a second of the secon	Tabitat Evaluation Ingex	rieid Manuai" for instru	CUO
REAM CHANNEL MODIFICA	TONS: NONE / NATURAL CHANNE	L RECOVERED RECOV	ERING RECENT OR NO	REC
PURPTRATE ACADEMA				-
(MEX 0132). Add total nur	percent of every type present). Check (nber of significant substrate types found	ONLY <u>two</u> predominant substr (Max of 8). Final metric score i	ste TYPE boxes.	НН
YPE BLDR SLABS [16 pts	PERCENT TYPE		PERCENT	Met
BOULDER (>256 mm)		.T [3 pt] AF PACKWOODY DEBRIS [:	opts] D	Poi
BEDROCK [16 pts]		IE DETRITUS [3 pts]	20	Subs Max
COBBLE (65-256 mm) GRAVEL (2-64 mm)		AY or HARDPAN [0 pt]	70	
SAND (<2 mm) [6 pta	Application of the Control of the Co	ICK [0 pts]	rais	6
Total of Percentages	of		4	
Bidr Slabs, Boulder, Cobble ORE OF TWO MOST PREDOM	, Bedrock (A)		, , ,	A+
	- Contrasses of A	TOTAL NUMBER OF SUBSTR		_
	<i>fleasure the <u>maximum</u> pool depth with</i> plunge pools from road culverts or storm:			lool [
> 30 centimeters [20 pts]		cm - 10 cm [15 pts]		naa
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]		5 cm [5pts] O WATER OR MOIST CHANN	El (Onte)	0
		MAXIMUM POOL DEPTH		
	-	_ macdimom root berini	Celiumeters	
COMMENTS N		mortal (Check ON) Your	haut E	2
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BANK FULL WIDTH (Me > 4.0 meters (>13') [30 pt -> 3.0 m - 4.0 m (> 9' 7"-13	asuredas the average of 3-4 measures	ements) (Check <i>ONLY</i> one 1.0 m - 1.5 m (> 3' 3" - 4' 8")(1 1.0 m (<u><</u> 3' 3")[5 pts]	5 pts]	Wid
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BANK FULL WIDTH (Me > 4.0 meters (>13') [30 pt -> 3.0 m - 4.0 m (> 9' 7"-13	asuredas the average of 3-4 measures	1.0 m - 1.5 m (> 3' 3" - 4' 8")(1	5 pts]	Wid
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BANK FULL WIDTH (Me > 4.0 meters (> 13') [30 pt > 3.0 m - 4.0 m (> 9' 7"-13 > 1.5 m - 3.0 m (> 4' 8" - 9' COMMENTS RIPARIAN ZONE A RIPARIAN WIDTI L R (Per Bank) Wide > 10 m Moderate 5-10 m None COMMENTS FLOW REGIME (AI Stream Flowing Subsurface flow with COMMENTS	asuredas the average of 3 - 4 measure [] [25 pts]	1.0 m -1.5 m (> 3' 3" -4' 8")(1' 1.0 m (< 3' 3")[5 pts] AVERAGE BANKFULL Witalso be completed River Left (L) and Right (R) a JALITY (Most Predominant pe L R Vetland	DTH (meters) O.W s looking downstream r Bank) Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction	Sank Wid Max-

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FLOW			1-00-1			
	DRAWING AND Include important lan	NARRATIVE DES	SCRIPTION OF S	REAM REACH (This uation and a narrative descr	must be completed) iption of the stream's location	
						-
				N/A		_
	erved? (Y/N) <u> </u>	Species observed (if k	nown): N/A			_
		1000	GICAL OBSERVATION			
Additiona	i comments/description	or pollution impacts: _	N/A			-
سو در و	1			2		-
is the san	npling reach represent	ative of the stream (Y/N	l) <u> </u>	N/A		
				(S.U.) Condu		
	Furbidity?(Y/N): <u>N</u>			# or ID (attach results):	- 1	
				n + Subs	strate	-
Base Flov	v Conditions? (Y/N):	<u>∼</u> Date of last pre	ecipitation:	Quantity:		
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					Williamsport	
USGS Qu	adrangle Name:	ve Points	NRCS Soil Map	Page:NRCS S	oil Map Stream Order:	0
_		PIES OF MAPS, INCLUE	ING THE <u>entire</u> water	SHED AREA. CLEARLY MAR		
☐ EWH N	lame:		- K		luated Stream	- UN
	Name:		1 1		luated Stream	
	DOWNSTREAM DESIG	MAILD USL(S)				

Ohio Ervironmental Protection Agency			ation Index Fiel IHEI Score (sum of		12
DATE 8/30/21 s	EACH (11) 200 th LAT CORER E. WILSON OMS On This Form - Re	29,022920 COMMENTS Street	R CODE DR LONG DR LONG DS	RIVER MILE	
TYPE BLDR SLABS BOULDER (*) BEDROCK [4] COBBLE (65- GRAVEL (2-8) SAND (<2 mm	PERCE	Bubstrate types found (M TYPE SILT LEA FINE CLA MUC ART	VLY two predominant substriax of 8). Final metric score (Spt) F PACK/WOODY DEBRIS (DETRITUS [3 pts] Y or HARDPAN [0 pt] K [0 pts] FICIAL [3 pts]	is sum of boxes A & B PERCENT 3 pts] 25 50	HHEI Metric Points Substrat Max = 40
time of evaluation > 30 centimeters [> 22.5 - 30 cm [30] > 10 - 22.5 cm [25] COMMENTS BANK FULL WID	n. Avoid plunge pools from [20 pts] [5 pts] \(\sum_{\subseteq} \) \(\sum_{\subseteq} \) \(\sum_{\supseteq} \) \(\sum_{\subseteq} \) \(\sum_{\supseteq} \) \(\sum_{\subseteq} \) \(\sum_{\supseteq} \) \(\sum_{\sum_{\supseteq} \) \(\sum_{\supseteq} \) \(\sum_{\	road culverts or storm w 5 c NO Read Culverts or storm w	cm - 10 cm [15 pts] cm [5pts] WATER OR MOIST CHANN MAXIMUM POOL DEPTH nents) (Check ONLY one	vone box): NEL [0pts] (centimeters):	Pool Dept Max = 30
3.0 m - 4.0 m (>	9' [30 pts] 9' 7'-13') [25 pts] 4' 8'' -9' 7') [20 pts]		.0 m -1.5 m (> 3' 3" -4' 8")(.0 m (≤ 3' 3")[5 pts] AVERAGE BANKFULL W		Width Max=30
RIPARIA L R (Per B Wide > Modera Narrow None COMMENT FLOW REG Stream Flog Subsurface COMMENT	I ZONE AND FLOODPLAI AN WIDTH Bank) 10m 10m 10 ST 10m 10m 10m 10m 10m 10m 10m 10	R Mature Forest, W. Immature Forest, W. Residential, Park, Fenced Pasture (Check ONLY one Interstitial)	River Left (L) and Right (R) (ALITY (Most Predominant published Shrub or Old Field New Field Shox):	er Bank) Conservation Tillage Urban or Industrial Open Pasture, Row Co Mining or Construction pools, no flow (intermitte	тор

May 2020 Revisio

	ADDITIONAL STREAM INF	ORMATION (This is	nformation Must Also	be Completed):		,
QHET PE	RFORMED? TYes No Q	IHEI Score	(If Yes, Attach C	ompleted QHEI form)		
DOWNST	REAM DESIGNATED USE(S)	i				
The state of the s				nce from Evaluated Stre		
				nce from Evaluated Stre		DNI
EWH Name:			Distal	nce from Evaluated Stre	am <u> </u>	
	G: ATTACH COPIES OF MAPS, IN	A STATE OF STREET				
SGS Quadrangle	Name: Chrksburg	NRCS	Soil Map Page:	NRCS Soil Map Stre	eam Order:	
	Kaury					
	LANEOUS					
ase Flow Condition	ons? (Y/N):_ N Date of k	ast precipitation:		Quantity:	21	
	ion Notes: UDStream					
		*		The state of the s		_
	P(Y/N): N Canopy			_		
	ected for water chemistry? (Y/					
ield Measures:Te	emp (°C) Dissolved C	Oxygen (mg/l)	pH (S.U.)	Conductivity (umb	os/cm)	-
the sampling re	ach representative of the strea	m (Y/N) If no	t, explain: N/A			
		- N				
dditional comme	nts/description of pollution impa	acts: N/A				7
		110 - 30				_
		BIOLOGICAL OBSE	RVATIONS			
		(Record all observati	A TOTAL CONTRACTOR OF THE PARTY			
	Y/N) / Species observe					
	Observed? (Y/N) ~ Spe					_
	erved? (Y/N) N Species					_
equatic Macroinv	ertebrates Observed? (Y/N) D	J_ Species observ	ved (if known): N/	4		_
omments Regar	ting Biology: 니/스					
	WING AND NARRATIVE					211
Includ	e important landmarks and other	(20)	or site evaluation and a na	arrative description of the	stream's location	9/(
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ow S			00 x 600 630 000	AG FIELD	tree (C)	DIA LUN

Phio Headwater Habita	at Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)
DATE 8 20 2 SCORER 6. WILSON COMMENTE: Complete All Items On This Form - Refer to "H	NET RIVER CODE DRAINAGE AREA (MP)
SUBSTRATE (Estimate percent of every type pres (Max of 32). Add total number of significant substrate	RAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING RECENT OR NO RECOVERING RECENT OR NO RECOVERING RECENT OF RECENT RECENT RECENT RECENT RECENT RECENT RECENT POINTS SUBSTITUTE RECENT RECENT POINTS SUBSTITUTE RECENT RECENT POINTS SUBSTITUTE RECENT POINTS SUBSTITUTE RECENT RECENT RECENT POINTS SUBSTITUTE RECENT RECENT RECENT RECENT POINTS SUBSTITUTE RECENT OR NO RECOVER RECENT REC
COMMENTS CORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES Maximum Pool Depth (Measure the maximum pool time of evaluation. Avoid plunge pools from road culve > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] COMMENTS N/A	Maximum Pool Depth (centimeters) 4.9
3. BANK FULL WIDTH (Measured as the average of 3 > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7"-13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS	-4 measurements) (Check ONLY one box):
	rmation mustalso be completed Y * NOTE: River Left (L) and Right (R) as looking downstream+
RIPARIAN WIDTH	ODPLAIN QUALITY (Most Predominant per Bank) L R ure Forest, Wetland
FLOW REGIME (At Time of Evaluation) (Checonomic Stream Flowing Subsurface flow with isolated pools (interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 flows)	Moist Channel, isolated pools, no flow (intermittent) Dry channel, no water (ephemeral) t) of channel) (Check ONLY one box):
None 1.0 0.5 1.5 STREAM GRADIENT ESTIMATE Flat (0.5 \$\times 10.0 \times 1.0 \times 1.5 Moderate Moderate	2.0

	QHEI PERFORMED? TYES NO QHEI Score (If Yes, Attach Completed QHEI form) DOWNSTREAM DESIGNATED USE(S) Distance from Evaluated Stream
Œ	VVVVI Name:
	CWH Name: Distance from Evaluated Stream
-	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTING VINE COLORS SOIL Map Streem Order
ι	USGS Quadrangle Name: Clarkstong Williamsport NRCS Soil Map Page: NRCS Soil Map Stream Order:
C	county: Pickaway Township/City: Deer Creek Williams port
	MISCELLANEOUS
E	Base Flow Conditions? (Y/N): ~ Date of last precipitation: Quantity:
	Photo-documentation Notes: Upstream, Downstream + Substrate
	Elevated Turbidity?(Y/N): \(\tau \) Canopy (% open): \(\tau \)
	Were samples collected for water chemistry? (Y/N): \(\sum_{\substack} \) Lab Sample # or ID (attach results): \(\sum_{\substack} \)
	Field Measures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)
ŀ	s the sampling reach representative of the stream (Y/N) ~ If not, explain:
3	Additional comments/description of pollution impacts: NA
-	BIOLOGICAL OBSERVATIONS
	(Record all observations below)
	Fish Observed? (Y/N) _ J Species observed (if known): P/A
	Frogs or Tadpoles Observed? (Y/N) \(\mathcal{N} \) Species observed (if known): \(\mathcal{N} \sqrt{A} \)
	Salamanders Observed? (Y/N) 2 Species observed (if known); N/A
,	Aquatic Macroinvertebrates Observed? (Y/N) P Species observed (if known): N/A
(Comments Regarding Biology: N/A
	THE REPORT OF THE PROPERTY OF STORAGE PROPERTY OF STORAGE PROPERTY.
,	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location
EXE	Include important landmarks and other features of Interest for site evaluation and a narrative description of the stream's location
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n/	1 / III / / . / EIGID / Y CM / IVI
ELC	AG FIELD

			FIRE Score (sum	of metrics 1+2+3)	
	1784 Chipmu 7 River Basin S REACH (1) 2004 L SCORER E.WILSOY	at 39.101582		DRAINAGE AREA (MP) O	-0000
	tems On This Form -	Refer to "Headwa	ter Habitat Evaluation Inde	THE RESERVE OF THE PARTY OF THE	HN-91 54
MAX 0132). AG TYPE BLDR SLAI BOULDER BEDROCK COBBLE (6 GRAVEL (2 SAND (<2 r	Estimate percent of eve d total number of significa PER 3S [16 pts] (>256 mm) [16 pts] [16 pts] (>256 mm) [12 pts] (>44 mm) [9 pts] (>6 pts] (>6 pts] (>6 pts]	ery type present). Ch int substrate types for CENT TYPE	eck ONLY two predominant su und (Max of 8). Final metric sci SLT [3 pt] LEAF PACKWOODY DEBRI FINE DETRITUS [3 pts] CLAY or HARDPAN [0 pt] MUCK [0 pts] ARTIFICIAL [3 pts]	bstrate TYPE boxes. ore is sum of boxes A & B PERCENT S [3 pts] 10 10 10 10 10 10 10 10 10 10 10 10 10	HHE Metri Point Substr Max =
CORE OF TWO MOST	lon. Avoid plunge pools fro g [20 pts]	aximum pool depth	TOTAL NUMBER OF SUB within the 61 meter (200 feet) form water pipes) (Check O 5 cm - 10 cm [15 pts] < 5 cm [5pts]	evaluation reach at the	Pool De Max =
> 10 - 22.5 cm COMMENTS_	25 pts] N/A	<u> </u>	NO WATER OR MOIST CH	ANNEL [0pts] TH (centimeters)	
> 4.0 meters (> 3.0 m - 4.0 m			asurements) (Check <i>ONLY</i> > 1.0 m - 1.5 m (> 3' 3" - 4' ≤ 1.0 m (≤ 3' 3")[5 pts]		Bankf Widti Max=3
COMMENTS	N/A	· ·	AVERAGE BANKFULI	- WIDTH (meters) - 7	5
RIPARIA	AN ZONE AND FLOODPI		mustalso be completed IOTE: River Left (L) and Right ((R) as looking downstream.	
L R (Pe	<u>NAN WIDTH</u> r Bank) >10m	FLOODPLA L R	N QUALITY (Most Predominar L I est. Wetland	nt per Bank) R	
Mode	erate 5-10m ow <5m	Immature F	orest, Shrub or Old Field [][, Park, New Field [][Urban or Industrial Open Pasture, Row Co	
FLOW F	REGIME <i>(At Time of Evalu</i> lowing Ice flow with isolated pook			ted pools, no flow (intermitte ter (ephemeral)	ent)
COMME			nnel) (Check ONLY one box)	:	
COMMEI SINUOS None 0.5	ITY (Number of bends pe	1.0 1.5	2.0 2.5	□ 3.0 □ >3	

OUE PEDEGRAFDS	Yes XNo QHEI Score (If Yes, Attach Completed QHEI form)
DOWNSTREAM DESIGNATION OF THE PROPERTY OF T	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
	ES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
	NRCS Soil Map Page: NRCS Soil Map Stream Order:
ounty: Pickausy	Township/City: Deer Creek Williamsport
MISCELLANEOUS	
ase Flow Conditions? (Y/N):	Date of last precipitation: Quantity:
	Opstream, Downstream + Substrate
	Canopy (% open):
	chemistry? (Y/N): \(\subseteq \) Lab Sample # or ID (attach results): \(\subseteq \)
	Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)
and the second s	
the sampling reach representati	ive of the stream (Y/N) ~ If not, explain: ~ N/A
adilibrial confinents/description o	PIOLOGICAL OBSERVATIONS
	BIOLOGICAL OBSERVATIONS (Record all observations below) pecies observed (if known):
Fish Observed? (Y/N) <u>V</u> s _k	BIOLOGICAL OBSERVATIONS (Record all observations below)
Fish Observed? (Y/N) <u>V</u> S _l Frogs or Tadpoles Observed? (Y/N Salamanders Observed? (Y/N)_1	BIOLOGICAL OBSERVATIONS (Record all observations below) pecies observed (if known): N) Species observed (if known): N/A Species observed (if known): N/A
Fish Observed? (Y/N) <u>N</u> Sp Frogs or Tadpoles Observed? (Y/N Salamanders Observed? (Y/N) <u>1</u>	BIOLOGICAL OBSERVATIONS (Record all observations below) pecies observed (if known):
Fish Observed? (Y/N) <u>V</u> S _f Frogs or Tadpoles Observed? (Y/N Salamanders Observed? (Y/N) <u>1</u>	BIOLOGICAL OBSERVATIONS (Record all observations below) pecies observed (if known):
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ish Observed? (Y/N) N Sprogs or Tadpoles Observed? (Y/N) Salamanders Observed? (Y/N) National Served? (Y/N) Salamanders Observed? (Y/N) Salama	BIOLOGICAL OBSERVATIONS (Record all observations below) pecies observed (if known):
Fish Observed? (Y/N) N Signal	BiOLOGICAL OBSERVATIONS (Record all observations below) pecies observed (if known); \(\mu/\beta_{\tau} \)
ish Observed? (Y/N) N Si rogs or Tadpoles Observed? (Y/N alamanders Observed? (Y/N) 1 equatic Macroinvertebrates Obser omments Regarding Biology:	Biological observations (Record all observations below) pecies observed (if known): ソ/ふ N) ハ Species observed (if known): ソ/ふ ン Species observed (if known): ソ/ふ rved? (Y/N) ハ Species observed (if known): ソ/ふ ハノハ
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Fish Observed? (Y/N) N Signal	Biological observations (Record all observations below) pecies observed (if known): ソ/ふ N) ハ Species observed (if known): ソ/ふ ン Species observed (if known): ソ/ふ rved? (Y/N) ハ Species observed (if known): ソ/ふ ハノハ
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ish Observed? (Y/N) N Springs or Tadpoles Observed? (Y/N) 1 Springs or	BIOLOGICAL OBSERVATIONS (Record all observations below) pecies observed (if known):

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Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)	20
SITE NAME/LOCATION 1784 Chipmank Solar SITE NUMBER 1-008 RIVER BASIN Scioto River RIVER CODE DRAINAGE AREA (MP) I LENGTH OF STREAM REACH (ft) 200 LAT 39.618542 LONG -83.082985 RIVER MILE DATE 8/26/2021 SCORER C.Kwolck COMMENTS Channel has been significantly of Ins NOTE: Complete All Items On This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" for Ins STREAM CHANNEL MODIFICATIONS: NONE/NATURAL CHANNEL RECOVERED RECOVERING RECENT OR I	ndlfed;
1. SUBSTRATE (Estimate percent of every type present). Check ONL Y two predominant substrate TYPE boxes. (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B TYPE PERCENT SILT [3 pt] SILT	HHEI Metric Points Substrate Max = 40
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts]	Pool Depti Max = 30 Bankfull Width
> 3.0 m - 4.0 m (> 9' 7"-13') [25 pts]	Max=30
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream. RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank)	гор
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (interstitial) COMMENTS Vegetated chared SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	ent)
None	100 B)

Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATER SHED AREA. CLEARLY MARK THE SITE LOCATION. USGS Quadrangle Name: \(\)	<u>~</u>		,,,,,,		
EWH Name: Distance from Evaluated Stream Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY WARK THE SITE LOCATION. USGS Quadrangle Name: Ni	QHEI PERFOR	MED? Yes No QHEI Score_	(IfYes,	Attach Completed QHEI form)	
NRCS Soil Map Page:NRCS Soil Map Page:NRCS Soil Map Stream Order:	DOWNSTREA	1 DESIGNATED USE(S)	Creek	Distance from Evaluated Stream	
Township/Cty: Dokern Williams Township/Cty: Dokern Williams Miscellaneous Base Flow Conditions? (Y/N): Y Date of last precipitation: 8 25 21 Quantity: Unlenews Photo-documentation Notes: Upstream, Down Stream Substrate Elevated Turbidity?(Y/N): M Canopy (% open): 100°/6 Were samples collected for water chemistry? (Y/N): M Lab Sample # or D (attach results):	MAPPING: AT	TACH COPIES OF MAPS, INCLUDING TH	IE ENTIRE WATER SHEE	AREA. CLEARLY MARK THE SITE LO	CATION.
Township/Cty: Dokern Williams Township/Cty: Dokern Williams Miscellaneous Base Flow Conditions? (Y/N): Y Date of last precipitation: 8 25 21 Quantity: Unlenews Photo-documentation Notes: Upstream, Down Stream Substrate Elevated Turbidity?(Y/N): M Canopy (% open): 100°/6 Were samples collected for water chemistry? (Y/N): M Lab Sample # or D (attach results):	USGS Quadrangle Nam	e: Williamsport	NRCS Soil Map Page	e: - NRCS Soil Map Stream	Order:
Bise Flow Conditions? (V/N): Y Date of last precipitation: B 25 21 Quantity: Interess Photo-documentation Notes: V psi resum, Down stream Substrate Elevated Turbidity? (V/N): N Canopy (% open): IDO*/6 Were samples collected for waterchemistry? (V/N): Lab Sample # or D (attach results): Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm) Is the sampling reach representative of the stream (V/N) Y If not, explain: N/A Additional comments/description of pollution impacts: Agrical ture BIOLOGICAL OBSERVATIONS (Record all observations below) Fish Observed? (V/N) N Species observed (if known): N/A Frogs or Tadpoles Observed? (V/N) Y Species observed (if known): Vi den at Act of the decomments Regarding Biology: N/A DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)					
Base Flow Conditions? (Y/N): Y Date of last precipitation: B 25 21 Quantity: Interess Photo-documentation Notes: Vest ream Down Stream Substrate Elevated Turbidity? (Y/N): M Canopy (% open): 100% Were samples collected for water chemistry? (Y/N): M Lab Sample # or D (attach results): Field Measures. Temp ("C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm) Is the sampling reach representative of the stream (Y/N) Y If not, explain: N/A Additional comments/description of pollution impacts: As Conductivity BIOLOGICAL OBSERVATIONS (Record all observations below) Fish Observed? (Y/N) M Species observed (if known): N/A Frogs or Tadpoles Observed? (Y/N) Y Species observed (if known): N/A Aquatic Macroinvertebrates Observed? (Y/N) M Species observed (if known): N/A Comments Regarding Biology: N/A DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location					
Photo-documentation Notes:			812512	1 Quantities 1/mle mounts	
Elevated Turbidity?(Y/N): Name Canopy (% open): 100% Were samples collected for water chemistry? (Y/N): Name Lab Sample # or D (attach results):					
Were samples collected for water chemistry? (Y/N): \(\text{Lab Sample # or D (attach results):} \) Field Measures: Temp ("C) \(\text{Dissolved Oxygen (mg/l)} \) \(\text{pl (S.U.)} \) \(\text{Conductivity (umhos/cm)} \) Is the sampling reach representative of the stream (Y/N) \(\text{ If not, explain:} \) \(\text{DISSERVATIONS} \) Additional comments/description of pollution impacts: \(\text{Record all observations below} \) Fish Observed? (Y/N) \(\text{ O Species observed (if known):} \) \(\text{ DAME (Record all observations below)} \) Frogs or Tadpoles Observed? (Y/N) \(\text{ O Species observed (if known):} \) \(\text{ DAME (if known):} \) \(DAME			,	Sansmare	
Field Measures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm) is the sampling reach representative of the stream (V/N) if not, explain:					
Additional comments/description of pollution impacts: Agriculture. BIOLOGICAL OBSERVATIONS (Record all observations below) Fish Observed? (Y/N) Species observed (if known): N/A Frogs or Tadpoles Observed? (Y/N) Species observed (if known): N/A Salamanders Observed? (Y/N) Species observed (if known): N/A Aquatic Macroinvertebrates Observed? (Y/N) Species observed (if known): N/A DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location					
BIOLOGICAL DBSERVATIONS (Record all observations below) Fish Observed? (Y/N) \(\text{N} \) Species observed (if known): \(\text{N/A} \) Frogs or Tadpoles Observed? (Y/N) \(\text{N} \) Species observed (if known): \(\text{N/A} \) Salamanders Observed? (Y/N) \(\text{N} \) Species observed (if known): \(\text{N/A} \) Aquatic Macroinvertebrates Observed? (Y/N) \(\text{N} \) Species observed (if known): \(\text{N/A} \) Comments Regarding Biology: \(\text{N/A} \) DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location					m)
BIOLOGICAL OBSERVATIONS (Record all observations below) Fish Observed? (Y/N)	is the sampling reach re	presentative of the stream (Y/N) <u>Y</u>	_ If not, explain:	NA	
BIOLOGICAL OBSERVATIONS (Record all observations below) Fish Observed? (Y/N)					
(Record all observations below) Fish Observed? (Y/N) Species observed (if known): N/A Frogs or Tadpoles Observed? (Y/N) Species observed (if known): N/A Salamanders Observed? (Y/N) Species observed (if known):	Additional comments/de	scription of pollution impacts:	riculture.		
(Record all observations below) Fish Observed? (Y/N) Species observed (if known): N/A Frogs or Tadpoles Observed? (Y/N) Species observed (if known): N/A Salamanders Observed? (Y/N) Species observed (if known):		200,000,000	ADARD 44 TIQUE		
Salamanders Observed? (Y/N) Species observed (if known): Unidentified Salamanders Observed? (Y/N) Species observed (if known): V/A Aquatic Macroinvertebrates Observed? (Y/N) Species observed (if known): V/A Comments Regarding Biology: N/A DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location				T	
Aquatic Macroinvertebrates Observed? (Y/N) N Species observed (if known): Comments Regarding Biology: DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	Fish Observed? (Y/N)_	N Species observed (if known):	1	AL	
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location					
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location					
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	Aquatic Macroinvertebr	ates Observed? (Y/N) / Species	observed (if known);	N/A	
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	Comments Regarding B	iology: N/A			
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location		- i			
1-008 1-008	DRAWING	AND NARRATIVE DESCRIF	TION OF STREA	AM REACH (This must be co	ompleted)
1-008 1-008	Include impo		erest for site evaluation	n and a narrative description of the stre	am's location
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	1/2/1	1 1 1	117	1000	
	$X \setminus \lambda^{\perp}$.		1	The same	111
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	1117	1111	Dale	control	1
		11/1/	17	1/1/	
	// \				
May 2020 Revision Page 2	May 2020 Revision				

Protection Agency			HHEI Score (sum of	metrics 1+2+3) U3
	RIVER BASIN	NUNK SOLOT SCIONO PIVER RM LAT 39. 610907 DO COMMENTS		AINAGE AREA (MF) O. 64
THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN	STATE OF THE PARTY	C. National Control of Pro-		Field Manual" for Instruction
TYPE BLDR SLA BOULDER BEDROCK COBBLE (GRAVEL (SAND (<2 Total of Pe	ABS [16 pts] (>256 mm) [16 pts] [16 pts] (5256 mm) [12 pts]	Cant aubstrate types found RCENT TYPE SI LE LO	ONLY (wo predominant substitution (Max of 8), Final metric score LT [3 pt] AF PACKWOODY DEBRIS [NE DETRITUS [3 pts] AY OF HARDPAN [0 pt] ICK [0 pts] KTIFICIAL [3 pts]	Substant of boxes A & B PERCENT Mer Poil Substant Max
Maximum Po time of evalua > 30 centimete > 22.5 - 30 cm	tion. Avoid plunge pools rs [20 pts] [30 pts] [25 pts]	maximum pool depth with from road culverts or storm	in the 61 meter (200 feet) evi water pipes) (Check ONL 5 cm - 10 cm [15 pts] 5 cm [5pts] O WATER OR MOIST CHAN	NEL [Opts] Pool Max
> 4.0 meters (> > 3.0 m - 4.0 m			MAXIMUM POOL DEPTH ements) (Check ONLY one 1.0 m - 1.5 m (> 3' 3" - 4' 8") [1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL W	ebox): Ban Wic Max
	10// .	This information mu		The total
L R (P	IAN ZONE AND FLOODS RIAN WIDTH er Bank) e >10m erate 5-10m row <5m	PLAIN QUALITY * NOTE FLOODPLAIN Q L R Mature Forest, 1	: River Left (L) and Right (R) UALITY (Most Predominant p L R Wetland tt, Shrub or Old Field	
Stream Subsurf	ENTS NAME (At Time of Eva Flowing face flow with isolated pool ENTS NAME (At Time of Eva ENTS Na	luation) (Check ONLY on [ols (interstitial)	e box): Moist Channel, isolated Dry channel, no water (Mining or Construction pools, no flow (intermittent)
None		1.0] 2.0 [] 2.5 [3.0

DOWNSTREAM DESIGNATED			
☐ WWH Name: ☐ CWH Name:		Distance from Evaluated Stream Distance from Evaluated Stream	
EWH Name:		Distance from Evaluated Stream	
	MAPS, INCLUDING THE ENTIRE WATERS	HED AREA. CLEARLY MARK THE SITE LOC	CATION.
USGS Quadrangle Name:			
county: Pickaway	Township/City:	Deer Creek Willia	amsport
MISCELLANEOUS			
Base Flow Conditions? (Y/N): ~ 1	Date of last precipitation:	Quantity:	
Photo-documentation Notes: 1)05t	ream, Downstream	+ Substrate	
Elevated Turbidity?(Y/N):	Сапору (% ореп):		
Were samples collected for water chemic	stry?(Y/N): _ Lab Sample :	# or ID (attach results):	_
Field Measures:Temp (°C) Dis	solved Oxygen (mg/l) pH	(S.U.) Conductivity (umhos/c	m)
is the sampling reach representative of t	he stream (Y/N) If not, explain:	N/A	
Additional comments/description of pollu	tion impacts: NA		
	BIOLOGICAL OBSERVATIONS (Record all observations below)		- 1
Fish Observed? (Y/N) Y Species		and .	
Frogs or Tadpoles Observed? (Y/N)			
Salamanders Observed? (Y/N) V 5	species observed (if known): N	<u>/</u> ★.	
Aquatic Macroinvertebrates Observed?	(Y/N) N Species observed (if know	wn): N/A	
Comments Regarding Biology:	N/A		
			, A
DRAWING AND NARR	ATIVE DESCRIPTION OF ST	REAM REACH (This must be co	ompleted)
Include important landmarks a	nd other features of interest for site evalu	ration and a narrative description of the stre	am's location
	13 1	DEER	REEK
= INV	A host	7000	-1-
1 3	15 Truck		
	John John John John John John John John	/	
		/ AG /FIELL	
LOW \	1700/	AG / ICM	/
	03 /	AG/FIELL	1
		ABITICA	/

Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)	27
SITE NAME/LOCATION 1784 Chipmunk Solor SITE NUMBER 1-010 RIVER BASIN SCIOTO RIVER RIVER CODE DRAINAGE AREA (MP) C LENGTH OF STREAM REACH (M) 200 LAT 39.010020 LONG -83.147010 RIVER MILE DATE 9 1 21 SCORER C.KWOlok COMMENTS Influenced from wetlow 1-AR (NOTE: Complete All Items On This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" for Ins STREAM CHANNEL MODIFICATIONS: NONE/NATURAL CHANNEL RECOVERED RECOVERING RECENT OR	PEM)
1. SUBSTRATE (Estimate percent of every type present). Check ONLY two predominant substrate TYPE boxes. (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric acore is sum of boxes A & B TYPE PERCENT PERCENT BLDR SLABS [16 pts] SILT [3 pt] BOULDER (>256 mm) [16 pts] LEAF PACKWOODY DEBRIS [3 pts] BEDROCK [16 pts] FINE DETRITUS [3 pts] COBBLE (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] GRAVEL (2-64 mm) [9 pts] SO MUCK [0 pts] SAND (<2 mm) [6 pts] ARTIFICIAL [3 pts] Total of Percentages of Bidr Slabs, Boulder, Cobble, Bedrock AND SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 12 TOTAL NUMBER OF SUBSTRATE TYPES: 5	HHEI Metric Points Substrate Max = 40
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts]	Pool Depth Max = 30
3. BANK FULL WIDTH (Measuredas the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13°) [30 pts]	Bankfull Width Max=30
This information mustalso be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstreams. RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank) L R (Per Bank) L R Wide >10m Mature Forest, Wetland Conservation Tillage Moderate 5-10m Immature Forest, Shrub or Old Field Urban or Industrial Narrow <5m Residential, Park, New Field Open Pasture, Row C None Fenced Pasture Mining or Construction COMMENTS Mining or Construction Stream Flowing Moist Channel, isolated pools, no flow (intermitted Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) COMMENTS Moist Channel, isolated pools, no flow (intermitted Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) COMMENTS Moist Channel, isolated pools, no flow (intermitted Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) None 1.0 2.0 3.0 None 1.0 2.0 3.0 None 2.5 3.0	rop I
□ 0.5 □ 1.5 □ 2.5 □ 35 STREAM GRADIENT ESTIMATE □ Flat (0.5 ±/100 ts) □ Flat to Moderate □ Moderate (2 ±/100 ts) □ Moderate to Severe □ Severe (10 ts)	100 ft)

Page 1

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
QHEI PERFORMED? Yes No QHEI Score (If Yes, Attach Completed QHEI form)	
DOWNSTREAM DESIGNATED USE(S) WWH Name: Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream	
WWH Name: Distance from Evaluated Stream	
CWH Name: Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream	UN
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.	
SGS Quadrangle Name: Clarks Durg NRCS Soil Map Page: NRCS Soil Map Stream Order:	
ounty: Pickaway Township/City: Deer Creek / Williamsport	•
MISCELLANEOUS	
Base Flow Conditions? (Y/N): V Date of last precipitation: Quantity:	
hoto-documentation Notes: Upstream, Downstream + Substrate	
	_
levated Turbidity?(Y/N): Canopy (% open):	
Vere samples collected for waterchemistry?(Y/N):	
rield Measures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)	_
s the sampling reach representative of the stream (Y/N) _ U If not, explain: U/A	
	7
and the second s	_
Additional comments/description of pollution Impacts: \(\frac{1}{\A} \)	_
BIOLOGICAL OBSERVATIONS (Record all observations below)	
Fish Observed? (Y/N) V Species observed (if known); V/A	_
Frogs or Tadpoles Observed? (Y/N) N Species observed (if known): N/A	_
Salamanders Observed? (Y/N) N Species observed (if known); N/A	_
Aquatic Macroinvertebrates Observed? (Y/N) N Species observed (if known): N/A	_
Comments Regarding Biology: 13/A	
	=
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)	
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	
60000	
(1) (hold) (h	
OW FOREST	
ow a little of the little of t	
LOW YAR TO THE TOTAL THE T	

SITE NUMBER 1-011 RIVER BASIN SCIOLD PAYER RODE — DRANAGE AREA (mf) 0.0. ENGTH OF STREAM REACH (n) 200+ LAT 29.0013-10-1 LONG -0.3-12-01-10-0 RIVER MILE — DATE 9 1 1001 SCORER C. KNOICK COMMENTS 0.0.00 10-10-0 A 1-10-0 SCORER MILE — DATE 9 1 1001 SCORER C. KNOICK COMMENTS 0.0.00 10-10-0 SCORER MILE — DATE 9 1 1001 SCORER C. KNOICK COMMENTS 0.0.00 10-10-0 SCORER MILE — DATE 9 1 1001 SCORER C. KNOICK COMMENTS 0.0.00 10-10-0 SCORER MILE — DATE 9 1 1001 SCORER C. KNOICK COMMENTS 0.0.00 10-10-0 SCORER MILE 0.0.00 10-0 SCORER MILE 0.0.00 SCORER MILE 0.0.00 10-0 SCORE 0.0.00	THE NUMBER	HHEI Score (sum of metrics 1+2+	
TREAM CHANNEL MODIFICATIONS: NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RE SUBSTRATE (Estimate percent of every type present). Check ONLY jwg predominant substrate TYPE boxes. (Max of 32). Add total number of algnificant substrate types found (Max of 6). Final metric acore is sum of boxes A & 6 TYPE PERCENT TYPE BLDR SLABS [16 pts] PERCENT TYPE BLDR SLABS [16 pts] PERCENT TYPE BLDR SLABS [16 pts] PERCENT TYPE GRAVEL (2-84 mm) [19 pts] PERCENT SLEAP PROCESSION (12 pts) PROCESSION (TELE Complete All Hems On This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" for Instruction REAM CHANNEL MODIFICATIONS: NONE / NATURAL CHANNEL RECOVERING RECOVER RECOVERING RECOVERING RECOVERING RECOVERING RECOVERING RECOVERING RECOVERING RECOVERING RECOVERING RECOVER RECOVERING RECOVER RECOVERING RECO	LENGTH OF STREAM REACH (A) 200 LAT 39. WOLSLEY LONG -83.1394100 RIVER MIL	E _~_
SUBSTRATE (Estimate percent of every type present), Check CNLY Mag predominant substrate TYPE boxes, (Ulax of 32), Add total number of significant substrate types found (Max of 6). Final metric acore is sum of boxes A & B PERCENT TYPE SLT 3pt PERCENT	REAM CHANNEL MODIFICATIONS: NONE NATURAL CHANNEL RECOVERING RECOVERING RECENT OR NO RECENT SUBSTRATE (Estimate percent of every type present), Check ONLY two predominant substrate TYPE boxes. (Max of 32), Addition number of significant aubstrate types found (Max of 8), Final metric acore is sum of boxes A & B PERCENT TYPE SLIT Spt] PERCENT	(1) 20 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
SUBSTRATE (Estimate percent of every type present). Check ONLY two predominant substrate 7/9E boxes. (Max of 32). Add total number of significant substrate types found (Max of 5). Final metric acore is sum of boxes. A & B PERCENT TYPE SLT [3 pt] PERCENT PERC	SUBSTRATE (Eatimate percent of every type present). Check ONLY ivg predominant substrate TYPE boxes. At B (Max of 32). Add total number of significant substrate types (ound (Max of 6). Final metric acore is sum of boxes At B PRECENT TYPE SLT [3 pt] BDR SLABS [16 pts]	OTE: Complete All Items On This Form - Refer to "Headwater Habitat Evaluation Index Field Manual" fo	or Instruction
Class of 32). Add total number of significant substrate types found (Max of 8). Final metric acore is sum of boxes A & B PERCENT TYPE BLOR SLABS [16 pts]	Max of 32), Add total number of significant substrate types found (Max of 8). Final metric acore is sum of boxes A & B PERCENT YPE BLDR SLABS [16 pts] BLDR SLABS [16 pts] BLDR SLABS [16 pts] BLDR SLABS [16 pts] BDBDLDER (~256 mm) [12 pts] BDBDLDER (~256 mm) [12 pts] BDBDDLDER (~256 mm) [12 pts] BDBDDDLDER (~256 mm) [256 mm) [256 mm] [256 m	TREAM CHANNEL MODIFICATIONS: NONE / NATURAL CHANNEL RECOVERED RECOVERING RECEN	IT OR NO RECO
Class of 32). Add total number of significant substrate types found (Max of 8). Final metric acore is sum of boxes A & B PERCENT TYPE BLOR SLABS [16 pts]	Max of 32), Add total number of significant substrate types found (Max of 8). Final metric acore is sum of boxes A & B PERCENT YPE BLDR SLABS [16 pts] BLDR SLABS [16 pts] BLDR SLABS [16 pts] BLDR SLABS [16 pts] BDBDLDER (~256 mm) [12 pts] BDBDLDER (~256 mm) [12 pts] BDBDDLDER (~256 mm) [12 pts] BDBDDDLDER (~256 mm) [256 mm) [256 mm] [256 m	CURETRATE (C.Al., A.	
BLOR SLABS [16 pts] BOULDER (-256 mm) [16 pts] BUNDER (-256 mm) [16 pts] BERROCK [16 pts] BERROCK [16 pts] COBBLE (65-256 mm) [12 pts] CORROT FRODOMINATE SUBSTRATE TYPES: Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock CORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: MAXIMUM POOL Depth [Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) COMMENTS 30 centimeters [20 pts] 30 cen	BLDR SLABS 16 pts] BOULDER (>256 mm) 16 pts] BOULDER (>256 mm) 16 pts] BOULDER (>256 mm) 17 pts] COBBLE (65-256 mm) 12 pts] CORRECT [5 pts] SAND (<2 mm) 6 pts] ARTIFICIAL [3 pts] Total of Percentages of Bids slabs, Boulder, Cobble, Bedrock CORRECT FTWO MOST PREDOMINATE SUBSTRATE TYPES: Maximum Pool Depth (Weasure the maximum pool depthwithin the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or atom water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 25 cm -10 cm [15 pts] > 25 cm 50 pts] > 30 cm 30 pts] > 30 cm 30 pts] > 30 cm 30 pts] > 40 meters (-13) 30 pts] > 31 cm -15 m > 3° -4° 8° 4° 4° 5° 5° 5° 4° 6° 5° 5° 6° 5° 5° 5° 6° 5° 5° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6	(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A &	B HH
BOULDER (×256 mm) (19 pts)	BOULDER (2-256 mm) [16 pts]	THE TENDENT	Met
COBBLE (63-256 mm) [12 pts] COBBLE (62-256 mm) [12 pts] COBBLE (62-256 mm) [12 pts] CORAVEL (2-84 mm) [9 p	COBBLE (65-256 mm) [42 pts] CAY or HARDPAN [0 pt] SQ Muck [0 pts] GRAVEL (2.48 mm) [9 pts] CAY or HARDPAN [0 pt] GRAVEL (2.48 mm) [9 pts] CAY or HARDPAN [0 pt] MUCK [0 pts] ARTIFICIAL [3 pts] TOTAL NUMBER OF SUBSTRATE TYPES: TOTAL NUMBER	BOULDER (>256 mm) [16 pts] LEAF PACKWOODY DEBRIS [3 pts]	Subs
GRAVEL (2-84 mm) [9 pts]	GRAVEL (2.44 mm) [9 pts]		Max
Total of Percentages of Biddr Slabs, Boulder, Cobble, Bedrock 5 (A) TOTAL NUMBER OF SUBSTRATE TYPES: 4 Maximum Pool Depth (Measured the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): 5 cm – 10 cm [15 pts]	Total of Percentages of Bidr Slabs, Boulder, Cobble, Bedrock 5 (A) TOTAL NUMBER OF SUBSTRATE TYPES: OTTOTAL NUMBER OF SUB	□ □ GRAVEL (2-84 mm) [9 pts] □ □ MUCK [0 pts]	12
Bildr Slabs, Boulder, Cobble, Bedrock	Bidr Slabs, Boulder, Cobble, Bedrock	SAND (<2mm) [6 pts] ARTIFICIAL [3 pts]	15
Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts]	Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters (20 pts)		A+
time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONL Yone box): > 30 centimeters [20 pts]	time of evaluation. Avoid plunge pools from road culverts or storm water pipes) > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0pts] MAXIMUM POOL DEPTH (centimeters) [10] NO M	CORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES:	
> 30 centimeters [20 pts]	>30 centimeters [20 pts]	Maximum Pool Depth (Weasure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the	Pool
> 22.5 - 30 cm [30 pts]	> 22.5 - 30 cm [30 pts]		Max
COMMENTS MAXIMUM POOL DEPTH (centimeters) D	COMMENTS MAXIMUM POOL DEPTH (centimeters) 10 BANK FULL WIDTH (Measuredas the average of 3 - 4 measurements) (Check OWLY one box): > 4.0 meters (-13) [30 pts] > 1.0 m - 1.5 m (> 3' 3' - 4' 8", 15 pts] > 3.0 m - 4.0 m (> 9' 7' - 13) [25 pts] > 1.0 m (< 3' 3") [5 pts] > 1.5 m - 3.0 m (> 4' 8' - 9' 7') [20 pts] COMMENTS AVERAGE BANKFULL WIDTH (meters) This information mustals to be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream** RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank) L R (Per Bank) L R L R L R Wide > 10 m Mature Forest, Wetland Conservation Tillage Moderate 5-10 m Immature Forest, Shrub or Old Field Urban or Industrial Narrow < 5 m Residential, Park, New Field Urban or Industrial Narrow < 5 m Residential, Park, New Field Open Pasture, Row Crop None Fenced Pasture Mining or Construction Stream Flowing Moist Channel, isolated pools, no flow (intermittent) Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) COMMENTS One 1.0 2.0 3.0 0.5 1.5 2.5 3 STREAM GRADIENT ESTIMATE	> 22.5 - 30 cm [30 pts]	15
BANK FULL WIDTH (Measuredas the average of 3 - 4 measurements) (Check ONLY one box; > 4.0 meters (>13') [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8' - 9' 7') [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream- RIPARIAN WIDTH L R (Per Bank) L R (Per Bank) Mature Forest, Wetland Moderate 5-10m Mature Forest, Shrub or Old Field Narrow <5m Narrow <5m Residential, Park, New Field Open Pasture, Row Crop None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0	BANK FULL WIDTH (Measuredas the average of 3 - 4 measurements) (Check ONLY one box): > 4.0 meters (>13') [30 pts]		
>4.0 meters (> 13') [30 pts] > 1.0 m -1.5 m (> 3' 3' -4' 8") [15 pts] >3.0 m -4.0 m (> 9' 7'-13') [25 pts] ≤1.0 m (≤3' 3") [5 pts]	> 4.0 meters (> 13') [30 pts]	COMMENTS NAME MAXIMUM POOL DEPTH (centimeters)	-
AVERAGE BANKFULL WIDTH (meters) This information mustals obe completed RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream * RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank) L R (Per Bank) L R Wide >10m Mature Forest, Wetland Conservation Tillage Moderate 5-10m Mature Forest, Shrub or Old Field Durban or Industrial Narrow <5m Residential, Park, New Field Depen Pasture, Row Crop None Residential, Park, New Field Depen Pasture, Row Crop Kining or Construction COMMENTS Moist Channel, isolated pools, no flow (intermittent) Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0	This information mustalso be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* RIPARIAN WIDTH FLOODPLAN QUALITY (Most Predominant per Bank) L R (Per Bank) L R L R Conservation Tillage	> 4.0 meters (> 13') [30 pts] > 1.0 m − 1.5 m (> 3' 3" − 4' 8")[15 pts] > 3.0 m − 4.0 m (> 9' 7"−13') [25 pts] ≤ 1.0 m (≤ 3' 3")[5 pts]	Bank Wid Max=
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream. RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank) L R (Per Bank) L R L R Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Field Urban or Industrial Narrow <5m Residential, Park, New Field Open Pasture, Row Crop None Residential, Park, New Field Open Pasture, Row Crop Mining or Construction COMMENTS Moist Channel, isolated pools, no flow (intermittent) Stream Flowing Moist Channel, isolated pools, no flow (intermittent) COMMENTS Moist Channel, no water (ephemeral)	This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* RIPARIAN WIDTH FLOODPLAIN QUALITY (Most Predominant per Bank) L R Per Bank) L R L R Wide >10m Mature Forest, Wetland Conservation Tillage Urban or industrial Narrow <5m Residential, Park, New Field Open Pasture, Row Crop None Residential, Park, New Field Open Pasture, Row Crop FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (intermittent) Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) COMMENTS Open Pasture Open Pastu	>1.5 m - 3.0 m (>4'8"-9'7")[20 pts]	- I IS
RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* RIPARIAN WIDTH L R (Per Bank) L R Wide >10m Mature Forest, Wetland Mature Forest, Shrub or Old Field Urban or Industrial Marrow <5m Residential, Park, New Field Open Pasture, Row Crop None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 3.0	RIPARIAN WIDTH L R (Per Bank) L R Wide >10m Mature Forest, Wetland Inmature Forest, Shrub or Old Field Winner Flowing Stream Flowing Subsurface flow with isolated pools (interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) RIPARIAN WIDTH FLOODPLAN QUALITY (Most Predominant per Bank) L R L R Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Comments Moist Channel, isolated pools, no flow (intermittent) Dry channel, no water (ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 3.0 3.5 STREAM GRADIENT ESTIMATE	COMMENTS N/A AVERAGE BANKFULL WIDTH (meters)	4
RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* RIPARIAN WIDTH L R (Per Bank) L R Wide >10m Mature Forest, Wetland Moderate 5-10m Mining or Conservation Tillage Moderate 5-10m Residential, Park, New Field Open Pasture, Row Crop None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 3.0	RIPARIAN WIDTH L R (Per Bank) L R Wide >10m Mature Forest, Wetland Inmature Forest, Shrub or Old Field Winner Flowing Stream Flowing Subsurface flow with isolated pools (interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) RIPARIAN WIDTH FLOODPLAN QUALITY (Most Predominant per Bank) L R L R Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Comments Moist Channel, isolated pools, no flow (intermittent) Dry channel, no water (ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 3.0 3.5 STREAM GRADIENT ESTIMATE	This information mustalso be completed	
L R (Per Bank) L R L R L R Conservation Tillage Wide >10m Mature Forest, Wetland Conservation Tillage Urban or Industrial Urban or Industrial Urban or Industrial Open Pasture, Row Crop None Residential, Park, New Field Open Pasture, Row Crop Mining or Construction Mining or Construction	L R (Per Bank) L R L R L R L R Conservation Tillage Wide >10m	RIPARIAN ZONE AND FLOODPLAIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstr	eam.
Wide >10m	Wide >10m		
Moderate 5-10m	Moderate 5-10m		100
None Fenced Pasture Mining or Construction COMMENTS Moist Channel, isolated pools, no flow (intermittent) Stream Flowing Moist Channel, isolated pools, no flow (intermittent) Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) COMMENTS Moist Channel, no water (ephemeral) SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 3.0	None		
COMMENTS	COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 0.5 STREAM GRADIENT ESTIMATE		w Crop
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (intermittent) Subsurface flow with isolated pools (interstitial) Dry channel, no water (ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0	FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing		ıction
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DOWNSTREAM DESIGNATED USE(S) DOWNSTREAM DESIGNATED USE(S) Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION. SGS Quadrangle Name: CIA(KSDLYC) NRCS SOII Map Page: NRCS SOII Map Stream Order: Township/City: Delc (seek / Milliamspact) MISCELLANEOUS ase Flow Conditions? (Y/N): Dete of last precipitation: Quantity: Out-odocumentation Notes: UDSTRAM DOWNSTRAM + Substrate + S	WILL PERFURIVE	ED? Yes No QHEI Score (If Yes, Attach Completed QHEI form)
Distance from Evaluated Stream		
EWH Name: Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION. GGS Quadrangle Name: Clarksburg NRCS Soil Map Page: NRCS Soil Map Stream Order: Dunty: Pickandon Township/City: Deer Creek Williamsport	J WWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION. SGS Quadrangle Name: CINCKSDLYCI NRCS Soil Map Page: NRCS Soil Map Stream Order: Dunty: Pickglyon Township/City: Deer Creek Williamspact Number of John Stream Order: Dunty: Pickglyon Deer Creek Williamspact Number of John Stream Order: Dunty: Pickglyon Deer Creek Williamspact Number of John Stream Order: Dunty: Pickglyon Deer Creek Williamspact Number of John Stream Order: Dunty: Pickglyon Deer Creek Williamspact Outside Order: Deep Order:	FWH Name	Distance from Evaluated Stream
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Township/City: Deer (seek Williamsport MISCELLANEOUS ase Flow Conditions? (Y/N): \(\textit{\texti{\texti{		
MISCELLANEOUS ase Flow Conditions? (Y/N): \(\textstyle \) Date of last precipitation: \(\textstyle \) Quantity: \(\textstyle \) Date of last precipitation: \(\textstyle \) Down Stream + Substrate \(\textstyle \) Substrate \(\textstyle \) Canopy (% open): \(\textstyle \) Canopy (% open): \(\textstyle \) Lab Sample # or ID (attach results): \(\textstyle \) eld Measures: Temp (°C) \(\textstyle \) Dissolved Oxygen (mg/l) \(\textstyle \) PH (S.U.) \(\textstyle \) Conductivity (umhos/cm) \(\textstyle \) the sampling reach representative of the stream (Y/N) \(\textstyle \) If not, explain: \(\textstyle \) A BIOLOGICAL OBSERVATIONS (Record all observations below) sh Observed? (Y/N) \(\textstyle \) Species observed (if known); \(\textstyle \) A rogs or Tadpoles Observed? (Y/N) \(\textstyle \) Species observed (if known); \(\textstyle \) A quantity \(\textstyle \) quantity Species observed (if known); \(\textstyle \) A quantity \(\textstyle \) A Species observed (if known); \(\textstyle \) A Quantity \(\textstyle \) A Quantity \(\textstyle \) A Species observed (if known); \(\textstyle \) A	ounty: Pickawas	Township/city: Deer Creek Williamsport
roto-documentation Notes: Upstream Downstream + Substrate evated Turbidity?(Y/N): Canopy (% open): // ere samples collected for water chemistry?(Y/N): Lab Sample # or ID (attach results): eld Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm) the sampling reach representative of the stream (Y/N) If not, explain:/A Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm) the sampling reach representative of the stream (Y/N) If not, explain:/A BIOLOGICAL OBSERVATIONS (Record all observations below) Record all observations below) Species observed (if known):/A conductivity (umhos/cm)/A Conductivity (umhos/cm)/A Conductivity (umhos/cm)/A Dissolved Oxygen (mg/l) PH (S.U.) Conductivity (umhos/cm)/A BIOLOGICAL OBSERVATIONS (Record all observations below) Species observed (if known):/A Conductivity (umhos/cm)/A Conductivity (umhos/cm)/A Conductivity (umhos/cm)/A Dissolved Oxygen (mg/l) PH (S.U.)/A Dissolved Oxygen (mg/l)		
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rere samples collected for water chemistry? (Y/N): _\d Lab Sample # or ID (attach results): eld Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm) the sampling reach representative of the stream (Y/N) _\d If not, explain:/A dditional comments/description of pollution impacts:/A BIOLOGICAL OBSERVATIONS (Record all observations below) sh Observed? (Y/N) _\d Species observed (if known):/A rogs or Tadpoles Observed? (Y/N) _\d Species observed (if known):/A glamanders Observed? (Y/N) _\d Species observed (if known):/A quattic Macroinvertebrates Observed? (Y/N) _\d Species observed (if known):/A	hoto-documentation Note:	s: Upstream, Downstream + Substrate
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omments kegarding biology: VIA		
		1gy: ~/A
	DRAWING A	AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed)
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	DRAWING A	사이트 (CONTROL OF CONTROL OF
	DRAWING A	사이트 (CONTROL OF CONTROL OF
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	DRAWING A	사이트 (CONTROL OF CONTROL OF
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	DRAWING A	ant landmarks and other features of interest for site evaluation and a narrative description of the stream's location
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SITE NAME/LOCATION	1784 Chipmu	nk Solar	1/50 0005 —		
LENGTH OF STREAM	REACH (11) 200 ++ L	AT 20 595250	1000 - U.Z. 1210	DRAINAGE AREA (MP)	0.66
DATE 9/1/21	SCORER C. KWOLEK	COMMENTS	N/A	2.30 RIVER MILE	
OTE: Complete Al	I Items On This Form - I			on Ciold Magnetti for to-	A
The Real Property lines and the last of th	STATE APPEAL OF THE	TANKS OF THE PARTY	Marine Commercial Comm	The second second second	
INLAW CHANNEL	MODIFICATIONS: DE	ONE / NATURAL CHANN	EL RECOVERED RE	COVERING RECENT OR	NO RECOV
I. SUBSTRATE	(Estimate percent of eve	ry type present) Chac	CAll Vhus gradaminast au	hatrata TVEE haven	
TYPE (Max of 32).	Add total number of significa	nt substrate types foun	d (Max of 8). Final metric so	ore is sum of boxes A & B	HHE
BLDR SL	ABS [16 pts]	CENT TYPE	SLT [3 pt]	PERCENT	Metri
	(>256 mm) [16 pts]	_ 00 '	EAF PACKWOODY DEBRI	S [3 pts]	Substr
	(65-256 mm) [12 pts](FINE DETRITUS [3 pts] CLAY or HARDPAN [0 pt]		Max =
☐ GRAVEL	(2-64 mm) [9 pts] 7(MUCK [0 pts]		1
	2 mm) [6 pts]	2 00 /	ARTIFICIAL [3 pts]	editor	18
Bidr Slabs, Bot	ercentages of lider, Cobble, Bedrock C			(B)	A+B
CORE OF TWO MO	ST PREDOMINATE SUBSTR	TATE TYPES: 15	TOTAL NUMBER OF SUB		
Maximum P	ool Depth (Measure the ma	<u>kimum</u> pool depth wit	thin the 61 meter (200 feet)	evaluation reach at the	Pool De
> 30 centimet	ation. Avoid plunge pools fro ers [20 pts]	m road culverts or stori	n water pipes) (Check O 5 cm - 10 cm [15 pts]	NLYone box):	Max =
> 22.5 - 30 cm		-A	< 5 cm [5pts]		سے ز
> 10 - 22.5 cm			NO WATER OR MOIST CH		13
COMMENIS	Isoloted pools		MAXIMUM POOL DEP	Rate Canada	
BANK FULL	WIDTH (Measured as the a			Programme and the second of th	
BANK FULL > 4.0 meters (> 3.0 m - 4.0 r	> 13') [30 pts] n (> 9' 7"- 13') [25 pts]	100	rements) (Check ONLY > 1.0 m - 1.5 m (> 3' 3" - 4" ± ≤ 1.0 m (≤ 3' 3")[5 pts]	Programme and the second of th	Width
BANK FULL > 4.0 meters (> 3.0 m - 4.0 r	>13') [30 pts]	100	> 1.0 m - 1.5 m (> 3' 3" -4"	Programme and the second of th	Width Max=3
BANK FULL > 4.0 meters (> 3.0 m - 4.0 r	> 13') [30 pts] n (> 9' 7"- 13') [25 pts]	100	> 1.0 m - 1.5 m (> 3' 3" - 4' ≤1.0 m (≤3' 3")[5 pts]	Programme and the second of th	Bankfi Width Max=3
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SANK FULL	> 13') [30 pts] n (> 9' 7"-13') [25 pts] n (> 4' 8" - 9' 7") [20 pts] ELAN ZONE AND FLOODPL RIAN WIDTH Per Bank) le >10m Iderate 5-10m row <5m	This information m AIN QUALITY * NOT FLOODPLAN L R Mature Forest	> 1.0 m - 1.5 m (> 3' 3" - 4' ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULI ustalso be completed E: River Left (L) and Right (QUALITY (Most Predominar L F , Wetland est, Shrub or Old Field	B* (15 pts) . WIDTH (meters) R) as looking downstreamate per Bank) Conservation Tillage Urban or Industrial	Widtl Max=3
SANK FULL	> 13') [30 pts] in (> 9' 7"-13') [25 pts] in (> 4' 8"-9' 7") [20 pts] LIAN ZONE AND FLOODPL LIAN WIDTH Per Bank) ite >10 m iterate 5-10 m row <5 m iterate 5	This information man AIN QUALITY * NOT FLOODPLAIN L R Mature Forest Immature Fore Residential, Property Resi	> 1.0 m - 1.5 m (> 3' 3" - 4' ≤ 1.0 m (≤ 3' 3")[5 pts] AVERAGE BANKFULI ustalso be completed E: River Left (L) and Right (QUALITY (Most Predominar L F Wetland est, Shrub or Old Field ☐ ark, New Field ☐ [B* (15 pts) WIDTH (meters) R) as looking downstreamate per Bank) Conservation Tillage Urban or Industrial Open Pasture, Row Cr	Widtl Max=3
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BANK FULL 3.0 m -4.0 meters (3.0 m -4.0 meters (> 13') [30 pts] in (> 9' 7"-13') [25 pts] in (> 4' 8" - 9' 7") [20 pts] LIAN ZONE AND FLOODPL LIAN WIDTH Per Bank) its > 10 m its rate 5-10 m row < 5 m its ENTS REGIME (At Time of Evalua Flowing face flow with isolated pools	This information man AIN QUALITY * NOT FLOODPLAN L R Mature Forest Immature Fore Residential, Proceed Pasture Forect Pasture Pastur	> 1.0 m - 1.5 m (> 3' 3" - 4' ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULI ustalso be completed E: River Left (L) and Right (QUALITY (Most Predominar L F Wetland est, Shrub or Old Field ☐ erk, New Field re ☐ ne box):	B* [15 pts] WIDTH (meters) R) as looking downstreament per Bank) Conservation Tillage Urban or Industrial Open Pasture, Row Cr Mining or Construction	Width Max=3
SANK FULL	>13') [30 pts] in (> 9' 7"-13') [25 pts] in (> 4' 8"-9' 7") [20 pts] PLAN ZONE AND FLOODPL RIAN WIDTH Per Bank) ite >10m iterate 5-10m row <5m ite ENTS REGIME (At Time of Evaluation	This information male All QUALITY * NOT FLOODPLAIN L R Mature Forest Immature Fore Residential, Proceed Pasture Forest Pastur	> 1.0 m - 1.5 m (> 3' 3" - 4' ≤ 1.0 m (≤ 3' 3")[5 pts] AVERAGE BANKFULI ustalso be completed E: River Left (L) and Right (QUALITY (Most Predominar L F , Wetland est, Shrub or Old Field □ srk, New Field re □ me box): Moist Channel, isola □ Dry channel, no wat	B* [15 pts] . WIDTH (meters) R) as looking downstreament per Bank) Conservation Tillage Urban or Industrial Open Pasture, Row Cr Mining or Construction ted pools, no flow (intermitted per (ephemeral)	Width Max=3
SANK FULL	>13') [30 pts] in (> 9' 7"-13') [25 pts] in (> 4' 8" - 9' 7") [20 pts] PLAN ZONE AND FLOODPL RIAN WIDTH Per Bank) is >10m iterate 5-10m iter	This information male All QUALITY * NOT FLOODPLAIN L R Mature Forest Immature Fore Residential, Proceed Pasture Forest Pastur	> 1.0 m - 1.5 m (> 3' 3" - 4' ≤ 1.0 m (≤ 3' 3")[5 pts] AVERAGE BANKFULI ustalso be completed E: River Left (L) and Right (QUALITY (Most Predominar L F , Wetland est, Shrub or Old Field □ srk, New Field re □ me box): Moist Channel, isola □ Dry channel, no wat	B* [15 pts] . WIDTH (meters) R) as looking downstreament per Bank) Conservation Tillage Urban or Industrial Open Pasture, Row Cr Mining or Construction ted pools, no flow (intermitted per (ephemeral)	Width Max=3
SANK FULL	>13') [30 pts] in (> 9' 7"-13') [25 pts] in (> 4' 8" - 9' 7") [20 pts] PLAN ZONE AND FLOODPL RIAN WIDTH Per Bank) ite >10m iterate 5-10m ite	This information man AIN QUALITY * NOT FLOODPLAN L R Mature Forest Immature Forest Immature Forest Penced Pasture Fenced Pasture Forest Pasture Forest Pasture Forest Pasture Forest Pasture Fenced Pasture Forest Pasture Fenced Past	> 1.0 m - 1.5 m (> 3' 3" - 4' ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULI ustalso be completed E: River Left (L) and Right (QUALITY (Most Predominar L F , Wetland est, Shrub or Old Field □ [erk, New Field re □ [me box): □ Moist Channel, isola □ Dry channel, no wat el) (Check ONLY one box)	B* [15 pts] WIDTH (meters) R) as looking downstreament per Bank) Conservation Tillage Urban or Industrial Open Pasture, Row Cr Mining or Construction ted pools, no flow (intermitted per (ephemeral)	Width Max=3

ADD	ITIONAL STREAM	INFORMATION (This is	nformation Mu	st Also be Com	pleted):	
QHEI PERFORM	ED? TYes XN	O QHEI Score	(If Yes, At	ttach Completed	QHEI form)	
DOWNSTREAM	DESIGNATED USE	(S)				
WWH Name:					valuated Stream	
CWH Name:		Dag C-00	10	_ Distance from E	valuated Stream	
		, INCLUDING THE ENTIR				
SGS Quadrangle Name:	Ckrksb	NRCS :	Soil Map Page:	NRCS	Soil Map Stream	n Order:
ounty: Pickawa						
MISCELLANEO	us					
Base Flow Conditions? (/N): 1 Date	of last precipitation:	-	Quantity:		
Photo-documentation Not	es: Upstream	n. Downston	eam +	Substrat	e	
Elevated Turbidity?(Y/N):						
Vere samples collected t						
field Measures:Temp (°C) Dissolve	ed Oxygen (mg/l)	pH (S.U.)	Con	ductivity (umhos/	cm)
s the sampling reach rep	resentative of the st	ream (Y/N) _ H not	, explain:	N/A		
						5
		BIOLOGICAL OBSER (Record all observation				
Fish Observed? (Y/N))	J Species obse	erved (if known): N	3/F4			
rogs or Tadpoles Obser	ved? (Y/N) N	Species observed (if kno	own): N/	A		
alamanders Observed?	(Y/N) N Speci	es observed (if known);	NIA			
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omments Regarding Bio						
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		VE DESCRIPTION			All Andreas and An	
Include import	ant landmarks and ot	her features of interest for	r site evaluation	and a narrative de	scription of the str	eam's location
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	THE STREET	- /			1	
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hio Ohe E-respondent Protection Agency	Headwater Habitat Evaluation Index Field Form HHEI Score (sum of metrics 1+2+3)
ENGTH OF STREAM RINATE SALATE	RIVER BASIN SCIOTO RIVER CODE DRAINAGE AREA (MP)
TYPE BLDR SLABS BOULDER (> BEDROCK [1] COBBLE (65) GRAVEL (2-6) SAND (<2 mm Total of Perce Bidr Siabs, Boulder	
Maximum Pool time of evaluation > 30 centimeters > 22.5 - 30 cm [3/2] > 10 - 22.5 cm [2/2] COMMENTS	poth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Description
> 4.0 meters (> 13	H (Measuredas the average of 3-4 measurements) (Check ONLY one box): Bankfull 30 pts
	This information must also be completed
L R (Per Wide > Moders	Mature Forest, Wetland Conservation Tillage 5-10m Mature Forest, Shrub or Old Field Urban or Industrial 5m Residential, Park, New Field Open Pasture, Row Crop
Stream Flo Subsurfac COMMENT	ME (At Time of Evaluation) (Check ONLY one box): ing
SINUOSIT	(Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):
0.5 STREAM GRAD	☐ 1.5 ☐ 2.5 ☐ >3 NT_ESTIMATE Flat to Moderate ☐ Moderate (2 ₺100 ₺) ☐ Moderate to Severe ☐ Severe (10 ₺100 ₺)

Distance from Evaluated Stream	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
WAYN Name: Distance from Evaluated Stream	QHEI PERFORMED? The QHEI Score (If Yes, Attach Completed QHEI form)	
CWH Name: Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION. MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION. MISCELLANEOUS INFO: PICKOLANEOU DISTANCE TOWNShip/City. Deec Creek Initiations proct MISCELLANEOUS INFO: PICKOLANEOUS INFO: PICKO	DOWNSTREAM DESIGNATED USE(S)	
EVH Name: Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION. SGS Quadrangle Name: Clarks burg NRCs Soil Map Page: NRCs Soil Map Stream Order: JUNTY: PYCKQAN SON TOWNShip/City. Deer Creek Nilliams proct MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS Date of last precipitation: Quantity: Oto-documentation Notes: Upstream Date of last precipitation: Clanopy (% open): Leb Sample # or D (attach results): The sampling reach representative of the stream (Y/N). Let be Sample # or D (attach results): MISCELLANEOUS Are samples collected for water chemistry? (Y/N): Leb Sample # or D (attach results): The sampling reach representative of the stream (Y/N). Let be Sample # or D (attach results): MISCELLANEOUS Are samples collected for water chemistry? (Y/N): Leb Sample # or D (attach results): The sampling reach representative of the stream (Y/N). Let be Sample # or D (attach results): MISCELLANEOUS Are samples collected for water chemistry? (Y/N): MISCELLANEOUS Leb Sample # or D (attach results): MISCELLANEOUS Are samples collected for water chemistry? (Y/N): Leb Sample # or D (attach results): Leb Sample # or D (attach results): Leb Sample # or D (attach results): MISCELLANEOUS Are samples collected for water chemistry? (Y/N): MISCELLANEOUS Are samples # or D (attach results): MISCELLANEOUS Are samples # or D (attach results): Leb Sample # or D (attach results): MISCELLANEOUS Are samples #	TYTYTI INDING.	- 0
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE EMTIRE WATERSHED AREA. CLEARLY WARK THE SITE LOCATION. SOS Quadrangle Name: Clorks burg NRCS Sol Map Page: NRCS Sol Map Stream Order: MISCELLANEOUS Townshiptory: Deer (reek Nill lignos-pact Nill l	State of Sta	_ 0
NRCS Soil Map Page:NRCS Soil Map Stream Order: NRCS Soil Map Stream Order:		-
MISCELLANEOUS Isse Flow Conditions? (YN): L. Date of last precipitation: Quantity: Into-documentation Notes:		
MISCELLANEOUS ISSE Flow Conditions? (Y/N): \(\triangle \) Date of lest precipitation: \(\triangle \) Quantity: \(\triangle \) Into doc-documentation Notes: \(\triangle \) Description \(\trian	ISGS Quadrangle Name: Clarks burg NRCS Soil Map Page: NRCS Soil Map Stream Order:	•
Determination Notes: Upstream Downstream + Substrate everted Turbidity?(Y/N): L Canopy (% open):	county: Pickaway Township/City: Deer Creek Williamsport	-
aveted Turbidity?(Y/N):	MISCELLANEOUS	
Enclosic CAL OBSERVATIONS (Record all observed? (Y/N) _ N _ Species observed (if known): standard Subserved? (Y/N) _ N _ Species observed (if known): standard Subserved? (Y/N) _ N _ Species observed? (Y/N	ase Flow Conditions? (Y/N): N Date of last precipitation: Quantity:	
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Leb Samples collected for water chemistry? (Y/N): Leb Sample # or D (attach results): pH (S.U.) Conductivity (umhos/cm) pH (S.U.) Conductivity (umhos/cm) the sampling reach representative of the stream (Y/N) H foot, explain: \(\frac{1}{2} \) A diditional comments/description of pollution impacts:/A BIOLOGICAL OBSERVATIONS (Record all observations below) sh Observed? (Y/N) N Species observed (if known): lamanders Regarding Biology: // A DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location		
BIOLOGICAL OBSERVATIONS (Record all observed? (Y/N) Species observed (if known): Idiamanders Observed? (Y/N) Species observed (if known): Idiamanders Observed? (Y/N)		
## Additional comments/description of pollution impacts:		
BIOLOGICAL OBSERVATIONS (Record all observations below) sh Observed? (Y/N)N Species observed (if known): lamanders Observed? (Y/N)N Species observed (if known): quatic Macroinvertebrates Observed? (Y/N)N Species observed (if known): mments Regarding Biology:N/A DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	ield Measures:Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (umhos/cm)	_
BIOLOGICAL OBSERVATIONS (Record all observations below) sh Observed? (Y/N)N Species observed (if known): lamanders Observed? (Y/N)N Species observed (if known): quatic Macroinvertebrates Observed? (Y/N)N Species observed (if known): mments Regarding Biology:N/A DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	s the sampling reach representative of the stream (Y/N) _ U If not, explain: U/A	
BIOLOGICAL OBSERVATIONS (Record all observations below) sh Observed? (Y/N) _ N _ Species observed (if known): ogs or Tadpoles Observed? (Y/N) _ N _ Species observed (if known): diamanders Observed? (Y/N) _ N _ Species observed (if known): quatic Macroinvertebrates Observed? (Y/N) _ N _ Species observed (if known): mments Regarding Biology: _ N/A DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This _must_ be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location		
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location		-
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	Fish Observed? (Y/N) N Species observed (if known);	20.5
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location	rogs or Tadpoles Observed? (Y/N) N Species observed (if known):	
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location		
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location		
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed) Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location Field John Aleld		-
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location and a narrative description and narrative description and a narrative description and a narrativ	comments Regarding Biology: MIM	_
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location and a narrative description and narrative description and a narrative description and a narrativ		_
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location Note: The landmarks and other features of interest for site evaluation and a narrative description of the stream's location and a narrative description and narrative description and a narrative description and a narrativ	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)	
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Field 1-016 Jold Geld		
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Water draining		
wouch sub-surface	Water draining	
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Phio Phio Protection Agency	Headwater	r Habitat Ev	aluation Index HHEI Score (s	Field Form	2+3) 50
DATE 8/21/21 NOTE: Complete All	N 1784 Chipme DI RIVER BASIN S I REACH (ft) 200 ft L SCORER C. KWOLEN I Items On This Form -	AT <u>29,598,494</u> COMMENTS _ Refer to "Headwat	LONG <u>-83.17</u>	Index Field Manual	MLE
1. SUBSTRATE (Max of 32). A TYPE BLOR SL BOULDER COBBLE GRAVEL SAND (< Total of P Bidr Slabs, Bou	(Estimate percent of eve Add total number of significa PER ABS [16 pts] (>256 mm) [16 pts] ([16 pts] (65-256 mm) [12 pts] 16 (2-64 mm) [9 pts]	rry type present). Che int substrate types for CENT TYPE	ck ONLY two predominal and (Max of 8). Final metric SILT [3 pt] LEAF PACKWOODY DIFINE DETRITUS [3 pts CLAY or HARDPAN [0 pts] ARTIFICIAL [3 pts]	nt substrate TYPE boxes c score is sum of boxes PERCEI EBRIS [3 pts]	HHEI Metric Points Substrate Max = 40
2. Maximum Potime of evalue > 30 centimete > 22.5 - 30 cm > 10 - 22.5 cm COMMENTS 3. BANK FULL	pool Depth (Measure the mation. Avoid plunge pools from [20 pts] [20 pts] [25 pts] [25 pts]	aximum pool depthw om road culverts or str	vithin the 61 meter (200 community of the following of t	Geet) evaluation reach a ck ONLY one box): CHANNEL [Opts] DEPTH (centimeters):	Max-30
> 3.0 m - 4.0 m	n (> 9' 7"-13') [25 pts] n (> 4' 8" - 9' 7") [20 pts] N/A		≥≤1.0 m (≤3°3°)[5 pts	A P. Street and D. Control of Con	j,25
LR (F	derate 5-10m row <5m le	AIN QUALITY * NO FLOODPLAN L R Mature Fore Immature Fo	I QUALITY (Most Predon st, Wetland orest, Shrub or Old Field Park, New Field	ight (R) as looking down ninant per Bank) LR Conservation	Tillage istrial a, Row Crop
Stream Subsur COMM		(interstitial)	Moist Channel, Dry channel, no	isolated pools, no flow water (ephemeral) box): 3.0 >3	(intermittent)
STREAM GR	ADIENT ESTIMATE Flat to Moderate	Moderate (2 ৯100 হ	Moderate to S	severe Sev	vere (10 t/100 fg

ADDITIONAL STREAM INFORMATION	(This Information Must Also be Completed):
QHEI PERFORMED? TYES NO QHEI Score_	(If Yes, Attach Completed QHEI form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	Distance from Evaluated Stream
CWH Name: Deer Creek	Distance from Evaluated Stream Distance from Evaluated Stream
	IE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
ISGS Quadrangle Name: Clarksburg	NRCS Soil Map Page: NRCS Soil Map Stream Order:
county: Pickaway 7	Township/City. Deer Creek Williamsport
MISCELLANEOUS	
Base Flow Conditions? (Y/N): 1	ion: Quantity:
Photo-documentation Notes: Upstream, Down	
Elevated Turbidity?(Y/N):	
Were samples collected for water chemistry? (Y/N):	
field Measures:Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (umhos/cm)
s the sampling reach representative of the stream (Y/N)	_ If not, explain:NA
(Record all of	OBSERVATIONS bservations below)
Fish Observed? (Y/N) N Species observed (if known);	APPROVAL.
rogs or Tadpoles Observed? (Y/N) // Species observe	
Salamanders Observed? (Y/N) N Species observed (if k	
Aquatic Macroinvertebrates Observed? (Y/N) // Species	observed (if known):
comments Regarding Biology: N/A	
DRAWING AND NARRATIVE DESCRIE	PTION OF STREAM REACH (This must be completed)
그들은 사람들은 사람들이 가득하면 하면 가는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	terest for site evaluation and a narrative description of the stream's location
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E NAME/LOCATION 1784 Chipmun	HHEI Score (sum of metrics 1+2+3)	
RE NUMBER 1-015 RIVER BASIN SCU NGTH OF STREAM REACH (11) 200 ft LAT TE 8/31/21 SCORER E.W.1500	CHO RIVER RIVER CODE - DRAMAGE AREA (MP) < 0.1 T 39.5924710 LONG -83.124451 RIVER MILE - COMMENTS Stream located between perennial stream effer to "Headwater Habitat Evaluation Index Field Manual" for Instruction	_
	ONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO REC	
Max of 32). Add total number of significant YPE	MENT TYPE SILT [3 pt] LEAF PACKWOODY DEBRIS [3 pts] O Sub Ma: CLAY or HARDPAN [0 pt] ARTIFICIAL [3 pts]	
Bidr Slabs, Boulder, Cobble, Bedrock S DRE OF TWO MOST PREDOMINATE SUBSTRUM Maximum Pool Depth (Measure the maximum of evaluation, Avaid plungs pools from	ATE TYPES: 15 TOTAL NUMBER OF SUBSTRATE TYPES: 4 Pool	Depth
> 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	S cm - 10 cm [15 pts] S cm - 5 cm [5pts] NO WATER OR MOIST CHANNEL [0pts]	c = 30
COMMENTS NA	MAXIMUM POOL DEPTH (centimeters): 4.9	
BANK FULL WIDTH (Measuredas theav > 4.0 meters (>13') [30 pts] > 3.0 m - 4.0 m (> 9' 7'-13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]	>1.0 m -1.5 m (> 3' 3" -4' 8")(15 pts] W ≤1.0 m (≤3' 3")[5 pts] Was	nkfull dth x=30
COMMENTS N/A	AVERAGE BANKFULL WIDTH (meters) 1.5	٥
DIDABIAN ZONE AND ELOOPOLA	This information must also be completed	
RIPARIAN WIDTH L R (Per Bank) L	AIN QUALITY * NOTE: River Left (L) and Right (R) as looking downstream* FLOODPLAIN QUALITY (Most Predominant per Bank) R L R Mature Forest, Wetland	
FLOW REGIME (At Time of Evaluate Stream Flowing Subsurface flow with isolated pools (COMMENTS N)	Moist Channel, isolated pools, no flow (intermittent)	
SINUOSITY (Number of bends per	61 m (200 ft) of channel) (Check ONLY one box):	

ADDITIONAL STREAM INFORMATION (This	Information Must Also be Completed):
QHEI PERFORMED? Yes MNo QHEI Score	(If Yes, Attach Completed QHEI form)
DOWNSTREAM DESIGNATED USE(S)	
☐ WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
XEWH Name: Deer Co	Por Distance from Evaluated Stream
	RE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION.
ISGS Quadrangle Name: Williamsout NRCS	Soil Map Page: NRCS Soil Map Stream Order:
County: Pickauay Towns	hiprory. Deer Creek Williamsport
MISCELLANEOUS	
Base Flow Conditions? (Y/N):	Quantity:
Photo-documentation Notes: <u>UPStream</u> , Dawns	stream + Substrate
Elevated Turbidity?(Y/N): _ N Canopy (% open):	
Were samples collected for water chemistry? (Y/N): La	ab Sample # or ID (attach results):
Field Measures:Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (umhos/cm)
is the sampling reach representative of the stream (Y/N) 🔼 If no	ot, explain: N/A
BIOLOGICAL OBSEI (Record all observati	ions below)
Fish Observed? (Y/N) \(\mathcal{N} \) Species observed (if known):	NA
Frogs or Tadpoles Observed? (Y/N) _	
Salamanders Observed? (Y/N) Species observed (if known)	· N/A
Aquatic Macroinvertebrates Observed? (Y/N) Species observed	ved (if known): N/A
Comments Regarding Biology: レ/A	
•	
DRAWING AND NARRATIVE DESCRIPTION	OF STREAM REACH (This must be completed)
Include important landmarks and other features of interest fo	or site evaluation and a narrative description of the stream's location
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(A)	
	FO CREEK
OW (4-02a) P	TO THE MANAGEMENT OF THE PARTY
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Ohio Emirormenal Protottion Agenty			ation Index Fie HEI Score (sum of		11
LENGTH OF STREAM F DATE 8/2-0/21 NOTE: Complete All It	RIVER BASIN SCIATOR REACH (11) 200 LAT 2 SCORER E. WILSON (REGER SCORER - REFERENCE - REFERENCE - NONE	COMMENTS NEF	LONG <u>- 93.12799</u> LA bitat Evaluation Index	Field Manual" for Ins	tructions
(Max of 32). Add TYPE BLDR SLAB BOULDER (BEDROCK [GRAVEL (2- SAND (<2 m	>256 mm) [16 pts]	SILT SILT SILT SILT SILT SILT SILT SILT		is sum of boxes A & B PERCENT [3 pts] 75	HHEI Metric Points Substrat Max = 40
	0 pts]	ad culverts or storm w		Yone box): NEL [Opts]	Pool Dept Max = 30
> 4.0 meters (>1 > 3.0 m - 4.0 m (DTH (Measuredas the avera 3') [30 pts] - 9' 7"-13') [25 pts] - 4' 8" - 9' 7") [20 pts]	□ >1.	nerits) (Check ONLY on 0 m - 1.5 m (> 3' 3' - 4' 8') 0 m (≤ 3' 3')[5 pts] AVERAGE BANKFULL W	[15 pts]	Bankfull Width Max=30
DIDADIA		is information must	also be completed		
L R (Per	ate 5-10m		ALITY (Most Predominant p L R etland		ор
Stream Fix Subsurfac COMMEN SINUOSI None	EGIME (At Time of Evaluation) owing the flow with isolated pools (inter TS/A TY (Number of bends per 61 m	rstitial)	Moist Channel, isolated Dry channel, no water ((Check ONLY one box): 2.0	3.0	ent)
	1.5 IENT ESTIMATE ☐ Flat to Moderate	oderate (2 %100 %)	2.5 L	>3	

		Page 2		
		(1-021)	DEN KINN	4.1 - 7
GRASLANT	0/2/ (-x	WOLDT		
Activities and the second second			EAM REACH (This must be co	
comments Regarding biolog		- 1		
Aquatic Macroinvertebrates Comments Regarding Biolog		pecies observed (it know	n) <u>: N/A</u>	
			-> -\/a	
			'A	
Fish Observed? (Y/N) N				_
		GICAL OBSERVATIONS ord all observations below)		-
Additional comments/descrip	ption of pollution impacts: _	N/A		
s the sampling reach repres	sentative of the stream (Y/N	N) <u>~</u> If not, explain: _	7/A	
			S.U.) Conductivity (umhos/c	
			or ID (attach results):	
			or D (attach requite):	
Elevated Turbidity?(Y/N):			/AUDINOIL	
			+ Substicite	
		ecinitation:	Quantity:	
MISCELLANEOUS		Townsmp/city	- romot / whitemspo	
			Monroe / Williamspo	
			age: NRCS Soil Map Stream	
	CODIES OF MADS INCILIE	NATUE ENTIRE WATER SE	HED AREA. CLEARLY MARK THE SITE LOC	
CWH Name:		t .	Distance from Evaluated Stream Distance from Evaluated Stream	
		101	Distance montevaluated Stream	0.1 mi
WWH Name:	ESIGNATED USE(S)	y Run	Distance from Evaluated Stream	~ !

Stream H1

	EVD033 RIVE	Stream HI RBASIN <u>Dry Run</u> ZLONG83:137019 RN		INAGE AREA (mi²)	e/A
ENGTH OF STREAM REACH (11) 200 ATE 7/28/21 SCORER ## S NOTE: Complete All Items On This F	FIR COMMENT	s Historic far	ming/	channelize	itia
		RECOVERED DE REC	•		
SUBSTRATE (Estimate percent of (Max of 40). Add total number of sign	every type of substrate nificant substrate types for PERCENT	ound (Max of 8). Final metric	predominant su score is sum of	bstrate TYPE boxes boxes A & B. PERCENT	HHI Metr Poin
BOULDER (>256 mm) [16 pts] BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [9 pts]	36 30	LEAF PACKWOODY FINE DETRITUS [3] CLAY OF HARDPAN	ots]		Substi Max =
SAND (<2 mm) [6 pts] Total of Percentages of	20 0	The second secon		(B) (7)	A+E
Bidr Slabs, Boulder, Cobble, Bedrood CORE OF TWO MOST PREDOMINATE SU		TOTAL NUMBE	R OF SUBSTRA	9	A 1 1
Maximum Pool Depth (Measure the evaluation, Avoid plunge pools from > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	e maximum pool depth road culverts or storm wa	within the 61 meter (200 ft ater pipes) (Check ONLY) > 5 cm - 10 cm [15 i < 5 cm [5 pts] NO WATER OR MO	one box): ots]	[0 pts]	Pool D Max =
COMMENTS		MAXIMUM PO	OOL DEPTH (ce	ntimeters): 25	
BANK FULL WIDTH (Measured as > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS		> 1.0 m - 1.5 m (> 3' 1.0 m (≤ 3' 3") [5 p		2	Bank Widt Max=
RIPARIAN ZONE AND FLO		lon <u>must</u> also be complete ☆NOTE: River Left (L) and		king downstream ∆	
RIPARIAN WIDTH	FLOODPLAIN QU				
L R (Per Bank) Wide >10m		Forest, Wetland	å₽.	Conservation Tillage	
Moderate 5-10m	න්න් Immatu Field	re Forest, Shrub or Old	00	Urban or Industrial	
□□ Narrow <5m		ntial, Park, New Field		Open Pasture, Row	
None COMMENTS	☐ ☐ Fenced	I Pasture		Crop Mining or Construction	
FLOW REGIME (At Time of		Moist Chang	nel, isolated poo , no water (Eph	ls, no flow (Intermittent) emeral)	
Stream Flowing Subsurface flow with isolated COMMENTS_Teren_	niel				

PHWH Form Page - 1

June 20, 2008 Revision

ADDITIONAL STREAM INFORMATION (This Information QHEI PERFORMED? - Yes No QHEI So	A // A
	core / // (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) DOWNH Name: Lry RUN	Distance from Evaluated Stream O. 4 mile
CWH Name:	
D EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream
The bound of the Control of Control of the Control of C	
NIA	IG THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
county: Pickaway	_ Township/City. W///amsport
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Date of last precipite	ation: 9/18/21 Quantity: 0.05/4
Photograph Information:	
Elevated Turbidity? (Y/N): Canopy (% open):	20%
Were samples collected for water chemistry? (Y/N):	(Note lab sample no. or id. and attach results) Lab Number:
	mg/l) $\Delta //A$ pH (S.U.) 8.5 Conductivity (µmhos/cm) $\Delta //A$
s the sampling reach representative of the stream (Y/N)_Y	If not, please explain:
-	
Additional comments/description of pollution impacts:	
PIOTO PALIJATON	
BIOTIC EVALUATION	
Performed? (Y/N): (If Yes, Record all observation	s. Voucher collections optional. NOTE: all voucher samples must be labeled with the site
ID number. Include appropriat	te field data sheets from the Primary Headwater Habitat Assessment Manual)
ish Observed? (Y/N) Voucher? (Y/N) V Salan	nanders Observed? (Y/N) Voucher? (Y/N) V
rogs or Tadpoles Observed? (Y/N) Voucher? (Y/N)	Aquatic Macroinvertebrates Observed? (Y/N) / Voucher? (Y/N) /
Comments Regarding Biology:	
DRAWING AND NARRATIVE DESCRI	RIPTION OF STREAM REACH (This must be completed):
Include important landmarks and other features of I	nterest for site evaluation and a narrative description of the stream's location
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copplia	A Comment of the comm
FLOW - CONTROL	Poo
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FLOW Page	Dio O O Mariel kar
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Pao,	13 0.0. O D
LOW Triffle.	Di Oi O Viginal king

Stream H2

AME/LOCATIONSITE NUMBE	1K SOLA REVDO33	RIVER BASIN YELLOW DU	DRAINAGE AREA (mi²)	1.19 - Eve
STH OF STREAM REACH (11) 200 2/28/21 SCORER ##	LAT. 39.	623181 LONG -83,100336 RIV	rer code M/A RIVER MILE NAME OF ANNELIZATION / file	Sn.
			Ohio's PHWH Streams" for Instr	
EAM CHANNEL NONE	NATURAL CH	ANNEL D RECOVERED D REC	OVERING 19 RECENT OF NO REC	OVERT
SUBSTRATE (Estimate percent o	f every type of	substrate present. Check ONLY two	predominant substrate TYPE boxes	Luuei
(Max of 40). Add total number of sig	mificant substra	te types found (Max of 8). Final metric	score is sum of boxes A & B. PERCENT	HHEI Metric
BLDR SLABS [16 pts]		SILT [3 pt]	80	Points
BOULDER (>256 mm) [16 pts] BEDROCK [16 pt]	-	LEAF PACKWOODY		Substrate
BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts]		FINE DETRITUS [3]	No. of Street	Max = 40
GRAVEL (2-64 mm) [9 pts]		☐ MUCK [0 pts]		11
SAND (<2 mm) [6 pts]	20	☐☐ ARTIFICIAL [3 pts]		//
Total of Percentages of	01	(A) G	(B)	A+B
		4		and the second second
Bidr Slabs, Boulder, Cobble, Bedrook RE OF TWO MOST PREDOMINATE S Maximum Pool Depth (Measure ti	UBSTRATE TY	ool depth within the 61 meter (200 ft)	R OF SUBSTRATE TYPES:	Pool Depth
Maximum Pool Depth (Measure the evaluation, Avoid plunge pools from 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	UBSTRATE TY	pol depth within the 61 meter (200 ft) r storm water pipes) (Check ONLY of the control of the co	evaluation reach at the time of one box): ots]	Pool Depth Max = 30
Maximum Pool Depth (Measure to evaluation. Avoid plunge pools from > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts] COMMENTS	UBSTRATE TY the maximum po n road culverts or	ool depth within the 61 meter (200 ft) r storm water pipes) (Check ONLY of > 5 cm - 10 cm [15 p	evaluation reach at the time of one box):	
Maximum Pool Depth (Measure to evaluation. Avoid plunge pools from > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts] COMMENTS BANK FULL WIDTH (Measured as	UBSTRATE TY the maximum po n road culverts or	ool depth within the 61 meter (200 ft) r storm water pipes) (Check ONLY of	evaluation reach at the time of one box): ots] IST CHANNEL [0 pts] OOL DEPTH (centimeters):	Max = 30
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Maximum Pool Depth (Measure the evaluation. Avoid plunge pools from 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts] COMMENTS BANK FULL WIDTH (Measured as > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS RIPARIAN ZONE AND FLORING (Per Bank)	the average of the ODPLAIN QUA	ool depth within the 61 meter (200 ft) r storm water pipes) (Check ONLY of pixer storm water pipes) (Check ONLY of pixer storm water pipes) (Check ONLY of pixer storm water pipes) (Check on pixer storm water pixer storm water pixer storm (2.3 and pixer storm water pixer storm wate	evaluation reach at the time of one box): ofs] IST CHANNEL [0 pts] OOL DEPTH (centimeters): K ONLY one box): 3"-4'8") [15 pts] ts] ANKFULL WIDTH (meters) d Right (R) as looking downstream &	Max = 30 25 Bankfull Width
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PHWH Form Page - 1

☐ Moderate (2 1/100 ft)

June 20, 2008 Revision

Flat (0.5 m/100 m)

None 0.5

STREAM GRADIENT ESTIMATE

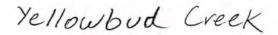
Severe (10 1/100 ft)

3.0

☐ Moderate to Severe

Stream H2

QHEI PERFORMED? - Yes No QHEI Score	A_ (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
J WWH Name:	Distance from Evaluated Stream
Jewh Name: Yellow bud Creck	Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIR	
JSGS Quadrangle Name: N	IRCS Soil Map Stream Order A
county: Pickaway Township	orcity. William sport
MISCELLANEOUS	
Base Flow Conditions? (Y/N): X Date of last precipitation:	18/21 Quantity: 0.05/2
Photograph Information:	
\/	′/
Elevated Turbidity? (Y/N): Y Canopy (% open): 100	11/4
Vere samples collected for water chemistry? (Y/N): (Note lab sa	
ield Measures: Temp (°C)/7.5 Dissolved Oxygen (mg/l)	4 pH (S.U.) 8.6 Conductivity (µmhos/cm) 1/A
the sampling reach representative of the stream (Y/N) / If not, ple	ase explain:
additional comments/description of pollution impacts:	
the state of the state of postular in page.	
ID number. Include appropriate field data sh	ollections optional. NOTE: all voucher samples must be labeled with the site neets from the Primary Headwater Habitat Assessment Manual)
erformed? (Y/N): (If Yes, Record all observations. Voucher co ID number. Include appropriate field data sh ish Observed? (Y/N) Salamanders Observeds or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic N	neets from the Primary Headwater Habitat Assessment Manual)
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erformed? (Y/N): (If Yes, Record all observations. Voucher con ID number. Include appropriate field data should be considered as the control of the c	eveds from the Primary Headwater Habitat Assessment Manual) erved? (Y/N) Voucher? (Y/N) Vou
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Performed? (Y/N):	Percents from the Primary Headwater Habitat Assessment Manual) Percent? (Y/N) \(\text{Voucher? (Y/N)} \) \(\tex



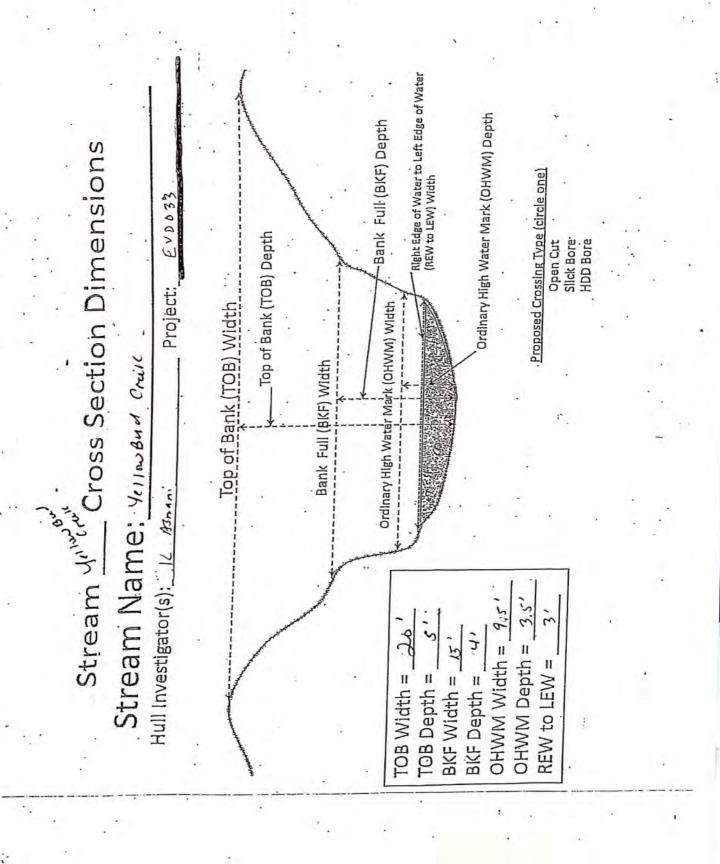
Field Methods for Evaluating Primary Headwater Streams in Ohio Ohio EPA, Division of Surface Water

Version 4.0 October 2018

One Enveronence Protection Agency	Filliary Hea	auwater nab		um of metrics 1+2+	3) 50
SITE NUMBER EVEL LENGTH OF STREAM DATE 1113122	SCORER K. Asnen	25060001R AT 39.6373 COMMENTS C	78 LONG-83.1 Channelize	289814 RIVER MILE	~13:0
NOTE: Complete All	State of the second			TRECOVERING RECENT	
(Max of 32). A TYPE BLDR SLA BOULDER BEDROCK COBBLE (GRAVEL (SAND (<2 Total of Pe	dd total number of signific PER BS [16 pts] (>256 mm) [16 pts] [16 pts] 65-256 mm) [12 pts]	ant substrate types foun CENT TYPE TYPE TYPE TYPE TYPE	Id (Max of 8). Final metr SILT [3 pt] LEAF PACK/WOODY I FINE DETRITUS [3 pts CLAY or HARDPAN [0 MUCK [0 pts] ARTIFICIAL [3 pts]	il	B HHEI Metric Points Substrate Max = 40
	tion. Avoid plunge pools fr rs [20 pts] [30 pts]		mwaterpipes) (Che 5 cm - 10 cm [15 pts < 5 cm [5pts] NO WATER OR MOIS	i`	Pool Depti Max = 30
3. BANK FULL 1 > 4.0 meters (2 > 3.0 m - 4.0 m	WIDTH (Measuredas the 13') [30 pts] (> 9' 7°- 13') [25 pts] (> 4' 8' - 9' 7') [20 pts]	eaverage of 3 - 4 meas	urements) (Check C > 1.0 m - 1.5 m (> 3' 3 ≤ 1.0 m (≤ 3' 3")[5 pts	* - 4' 8")[15 pts]	Bankfull Width Max=30
COMMENTS			AVERAGE BANK	FULL WIDTH (meters) 9	5" 20
L R (P	RIAN WIDTH er Bank) e >10m erate 5-10m row <5m e	LAIN QUALITY ★ NO FLOODPLAIN	QUALITY (Most Predo t, Wetland rest, Shrub or Old Field ark, New Field	Right (R) as looking downstrominant per Bank) LR Conservation Tilla	ge al ow Crop
Stream Subsurf	ace flow with isolated pool	s (interstitial)	Moist Channel, n	isolated pools, no flow (inte o water (ephemeral)	rmittent)
None 0.5 STREAM GRA	DIENT ESTIMATE	1.0 1.5 Moderate (2 \$100 \$)	2.0 2.5 Moderate to	3.0	(10 \$100 \$)
Flat (0.5 %100 %)	TI lat to moderate	I moderate (2 s to 2)	П		V. S. L. S.

ADDITIONAL STREAM INFORMATION (This Information Must Also be Compl	eted):
QHEI PERFORMED? The QHEI Score MA (If Yes, Attach Completed Q	HEI form\
	nei torm)
DOWNSTREAM DESIGNATED USE(S). WWWH Name: Ye How bud Creek Distance from Ev	aluated Stream 0.00
CWH Name: Distance from Ev	aluated Stream
Territory to the second	aluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MAI	RK THE SITE LOCATION.
USGS Quadrangle Name:NRCS Soil Map Page: WA NRCS :	Soil Map Stream Order: 1/1/A
USGS Quadrangle Name: NRCS Soil Map Page: NA NRCS Sounty: Pickaway County Township/City:	
MISCELLANEOUS	
Base Flow Conditions? (N) Pick Date of last precipitation: 1/1/2022 Quantity:	1//4
	10//
Photo-documentation Notes:	
Elevated Turbidity?(Y/N): Pick Canopy (% open): 9 b	
Were samples collected for waterchemistry?(Y/N): Y Lab Sample # or ID (attach results):_	N/A
Field Measures:Temp (°C) 5.8 Dissolved Oxygen (mg/l) pH (S.U.) 8.6 Condu	ctivity (umhos/cm)
Is the sampling reach representative of the stream (Y/N) Y If not, explain:	

Additional comments/description of pollution impacts:	
Additional comments/description of pollution impacts:	
BIOLOGICAL OBSERVATIONS	
(Record all observations below)	
Fish Observed? (Y/N) 10 / Species observed (if known):	
Frogs or Tadpoles Observed? (Y/N) Species observed (if known):	
Salamanders Observed? (Y/N) 1 Species observed (if known);	
	snails
	Sriail's
Comments Regarding Biology:	
	=======================================
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This	must be completed)
Include important landmarks and other features of interest for site evaluation and a narrative descr	
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This foregoing document was electronically filed with the Public Utilities Commission of Ohio Docketing Information System on

3/2/2022 6:46:50 PM

in

Case No(s). 21-0960-EL-BGN

Summary: Application Exhibit Q (Ecological Assessment, 7 of 10) electronically filed by Mr. Michael J. Settineri on behalf of Chipmunk Solar LLC