ATTACHMENT B

STREAM FORMS

E NAMELOCATION GOOD HOPE - HE	100/2009				netrics 1, 2, 3):	N C
SITE NUMBER !!	01-3/24/16	7 RIVER BA	SIN	Di	RAINAGE AREA (mi²) _	
VOTH OF STREAM REACH (II) TE 3/2-1/2016 SCORER PSR	LAT.	LON DUNCHTO -	ofernitte.	RIVER CODE_	PIVER MLE	
OTE: Complete All Items On This For						Inictions
					RECENT OR NO REC	
DDIFICATIONS:	TOTAL CEL	WHAT LYNE	COVERED D	RECOVERING 1	E) HECENT OR NO REC	COVERY
	_	_				
SUBSTRATE (Estimate parcent of ev (Max of 40). Add total number of signifi	very type of Icant substre	substrate pres te types found (entl. Check ONLY Mex of 8). Final m	<u>(M/o</u> predominani otric score is sum	substrate TYPE boxes of boxes A & B	HHE
PE BLDR SLABS [46 pts]	PERCENT	TYPE			PERCENT	Metric
BOULDER (>256 mm) [18 pls]		98	SILT [3 pt]	ODY DEBRIS [3 p		Points
☐ BEDROCK [16 pt]		00	FINE DETRITUE		, to j	Substrate
COBBLE (65-256 mm) [12 pts]	515		CLAY or HARDE		-	Max = 40
GRAVEL (2-64 mm) [9 pts]	15	99	MUCK [0 pts]			II III
SAND (<2 mm) (6 pts)	-	ď	ARTIFICIAL [3 p	is]	7.5	14
Total of Percentages of	5	(A)			(0)	A+B
Eldr Siebs, Boulder, Cobble, Berrock _ RE OF TWO MOST PREDOMINATE SUB!	STRATE TV	12	WORKS	BER OF BUBST	9	A+8
	-					
Maximum Pool Depth (Measure the re evaluation, Avoid plange pools from rea	naximum po	ol depth within	the 61 meter (2)	60 fg evaluation re	each at the time of	Pool Dypth
> 30 canomitters [30 pts]		0	> 5 cm - 10 cm	(15 pts)	91	Max = 30
> 22.5 - 30 cm (10 pts) > 10 - 22.5 cm (25 pts)		- 3	< 5 cm [5 pts]		DWGCOCK TIME	1 3
		-13		MOIST CHANNS	14.	
COMMENTA		_	MAXIMUI	POOL DEPTH	continuateral:	_
BANK FULL WIDTH (Measured as the	average of			heck ONLY one I		Bankfull
> 4 0 meters (> 13') [30 pts]	average of		/> 1 Dm - 1.5 m	heck ONLY one t > 3' 3" - 4' 8") [15 j		Bankfull Width
PANK FULL WIDTH (Measured as the > 4.0 meters (> 13) [30 pcs] > 3.0 m - 4.0 m (> 6' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 6" - 6' 7") [20 pts]	average of			heck ONLY one t > 3' 3" - 4' 8") [15 j	ote]	
> 4 0 meters (> 13') [30 pte] > 3.0 m - 4.0 m (> 6' 7" - 13') [25 pte] > 1.5 m - 3.0 m (> 4' 6" - 6' 7") [20 pts]	average of		> 1 0 m - 1.5 m s 1.0 m (s 3* 9*)	heck <i>ONLY</i> one I > 3' 3' - 4' 8") [15 p [5 pts]	rtel FL 3.0	Width
> 4 C meters (> 13') [30 pts] > 3 0 m - 4.0 m (> 8' 7" - 13') [25 pts]	average of		> 1 0 m - 1.5 m s 1.0 m (s 3* 9*)	heck ONLY one t > 3' 3" - 4' 8") [15 j	rtel FL 3.0	Width
> 4 (Directors (> 13) [30 pts] > 3.0m - 4.0m (> 6"7" - 13) [25 pts] > 1.5m - 3.0m (> 4"6" - 6" 7") [20 pts] COUMENTS	This	information on	> 1 0 m - 1.5 m s 1.0 m (s 3* 9*)		rtel FL 3.0	Width
> 4 0 medars (> 13) [30 pte] > 3.0 m - 4.0 m (> 8" - 13) [25 pte] > 1.5 m - 3.0 m (> 4" 8" - 6" 7") [20 pte] COMMENTS RIPARIAN ZONE AND FLOODI	This	information mu	AVERAGE AT also be comp	heck <i>ONLY</i> one 1 > 3' 3' - 4' 8') [15 p [5 pts] E BANKFULL WI	rtel FL 3.0	Width
> 4 0 medors (> 13) [30 pte] > 3 0 m - 4.0 m (> 8"?" - 13) [25 pts] > 1.5 m - 3.0 m (> 4"8" - 5" ?") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOD! INSPARIAN WITH I. R. [Per lists]	This	information mu	AVERAGE AT also be comp	heck ONLY one h > 3'3'- 4'8') [15 p [5 pta] E BANKFULL Wil Inted and Right (R) as k	EJ. 3.0	Width
2.4 0 meters (> 13) (30 pc) 2.5 0 m. + 4.0 m. + (6° 7 - 13) (20 pc) > 1.5 m. + 3.0 m. (> 4° 7 - 17) (20 pc) COMMENTE RIPARIIAN ZONE AND FLOODI BISTANIAN W.D111 L R. (*Cer Bless) D West > 10m.	This PLAIN QUAL	information mu	AVERAGE AVE	heck <i>ONLY</i> one 1 > 3' 3' - 4' 8') [15 p [5 pts] E BANKFULL WI	DTH (mejérs)	Width
> 4 0 medors (> 13) [30 pte] > 3 0 m - 4.0 m (> 8"?" - 13) [25 pts] > 1.5 m - 3.0 m (> 4"8" - 5" ?") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOD! INSPARIAN WITH I. R. [Per lists]	This PLAIN QUA FLOCOL L. F.	information multiv 2010 LAN QUALITY (Most Precker Mature Formal introduce For	AVERAGE AT also be comp TE: River Left (L): (month per Bank)	heck ONLY one h > 3'3'- 4'8') [15 p [5 pta] E BANKFULL Wil Inted and Right (R) as k	EJ. 3.0	Width
2.4 0 meters (> 13) (30 pc) 2.3 0 m − 4.0 m + (6° 7 − 13) (23 pc) 2.1 3 m − 3.0 m (> 4° 6° − 9° 7) (20 pc) COMMENTE SPARIAN ZONE AND FLOODI ESPARIAN VCDI L R (Per Bick) (Per Bick)	This PLAN QUAL FLOODS	information multiple delication of the control of t	AVERAGE AVE	heck ONLY one b 3'3'-4'87 [4s g [5 pts] G DANKOULL Will leted and Right (R) as k	FJ. J.V. DTH (mejérs) Toking downstreams? Conservation Titage	Width
2 4 0 mders (≥ 13) (20 pc) 2 3 0 m − 4 0 m + 6 yr − 13) (22 pc) 2 1 0 m − 3 0 m 2 4 0 r − 27) (20 pc) COMMENTE RIPARIAN ZONE AND FLOODI BISARIAN VOTES Wide > 10m Modulate 1-10m RIPARIAN STORE Names - 5 0m	This PLAN QUAL FLOODS	information multiv 2000 LAN QUALITY Most Presson Mature Fore- tiernature For- Field Residents P	AVERAGE AVE	heck ONLY one b 3'3'-4'87 [15 p [5 pts] C DANKOULL Will Inted and Rate (R) as k	DTH (meyers) Conservation Titage Uhban or Industriat Open Pasture, Row One	Width
2.4 0 meders (> 13) (00 pc) 2.3 0 m − 4.0 m + (2 m − 13) (25 pc) 2.1 m − 3.0 m 2.6 m − 7 − 17) (20 pc) COMMENTE RIPARISAN ZONE AND FLOODI BISTAMINAN VIOTH IT (FE Bless) Week > 10m J. Namow don	This PLAN QUAL FLOODS	information multiple delication of the control of t	AVERAGE AVE	heck ONLY one b 3'3'-4'87 [4s g [5 pts] G DANKOULL Will leted and Right (R) as k	F.J. 3. C DTH (mejérs) Conservation Titage Uban or Industrial Open Pasture, Row	Width
2.4 0 meters (> 13) (00 pc) 2.3 0 m − 4.0 m + 0.7 − 13) (22 pc) 2.1 m − 3.0 m (> 4 0 − 0.7 − 13) (22 pc) 2.1 m − 3.0 m (> 4 0 − 0.7 − 17) (20 pc) COMMENTE RIPARISAN ZONE AND FLOODI BITARINAN VICTOR Wick > 10m Wick > 10m Namew - 5m COMMENTE COMMENTE COMMENTE COMMENTE COMMENTE	This PLAN QUAI	information multiv 2010 Airi Quartiv (Most Precom Mature Forest Immature Fore	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE (E) (E) (E) (E) (E) (E) (E) (heck ONLY one b 3'3'-4'87 [15 p [5 pts] C DANKOULL Will Inted and Rate (R) as k	DTH (meyers) Conservation Titage Uhban or Industriat Open Pasture, Row One	Width
>4 0 meters (+ 13) (0 ptg) >3.0 m -4.0 m +6 yr - 13) pzs ptg) >1.5 m -3.0 m (+ 4 fr - 17) pzs ptg) >1.5 m -3.0 m (+ 4 fr - 17) pzg ptg) RIPARIIAN ZONE AND FLOODI RIPARIIAN ZONE AND	This PLAN QUAL FLOOD PLAN QU	information multiple of the process	AVERAGE st also be comp E. Sher Left (L): Interst per Bank): Welland or, Shoub er Old att, New Fixed Maist Ch. Maist Ch.	heck ONLY one to 3'3' - 4'87 [45 B pts] 5 DANIS ULL VIII 6 DANIS ULL VIII 6 DANIS ULL VIII 6 DANIS ULL VIII 7 DANIS ULL VIII 7 DANIS ULL VIII 7 DANIS ULL VIII	F.J. J. J. DTH (meylers) Conservation Talage Unan or fodulated Open Pacifirm, Row Open Maning or Construction	Midth Mexicolo
>4 0 meters (-13) (30 pc) >3 0 m -4 0 m (-6 27 - 13) (25 pc) >1 5 m -3 0 m (-6 27 - 13) (25 pc) >1 5 m -3 0 m (-6 27 - 13) (25 pc) SPARILAN ZONE AND FLOODI BENAMIAN WOTH R. (PERIAN) Wod->10 m Moderate 5-10 m Across COMMENTS FLOW REGIME (Al Time of Eve Stream Flowing	This PLAN QUAL FLOOD PLAN QU	information multiple of the process	AVERAGE State to be complete. State to be complete. State to be complete. State to be complete. Should be complete. Should be cold ask, then Find to box). Most Ch.	heck ONLY one to 3'3' - 4'87 [45 B pts] 5 DANIS ULL VIII 6 DANIS ULL VIII 6 DANIS ULL VIII 6 DANIS ULL VIII 7 DANIS ULL VIII 7 DANIS ULL VIII 7 DANIS ULL VIII	F.J. J.	Midth Mexicolo
24 Onetern (- 13) (30 pc) 2-30 m - 40 m (- 67 m - 13) (25 pc) 2-15 m - 30 m (- 67 m - 13) (25 pc) 2-15 m - 30 m (- 67 m - 13) (25 pc) RIPARIAN ZONE AND FLOODI RIPARIAN VICTH R. (PERIAN) Work > 100 Work > 100 Negarita 5-10m COMMENTS FLOW REGIME (A Time of Eve) Situations flow with isolated pool	PLAN QUANTED PLAN	Information mm. ITV 3/HO 2AH QUARTY (Most Precom Mature Forest Introducer Forest Int	> 1.0 m - 1.5 m × 1.0 m (× 3° 3°) AVERAGE SI also be complete. Short Left (L) (insert per Bank). Welliand So Should be Old ask, New Fired box). Moist Ch Dry cham	heck ONLY one to 33' - 4'87 (15 pt 2) E BANKPULL VIII	F.J. J.	Midth Mexicolo
24 O meters (* 13) (30 pc) 23 0m - 4.0 m (* 27 - 13) (25 pc) 21.5 m - 3.0 m (> 4 (8 - 97 7) (20 pc) 21.5 m - 3.0 m (> 4 (8 - 97 7) (20 pc) 20.5 m - 20.5 m (> 4 (8 - 9	This PLAN QUAL FLOOR FLO	Information mm. ITV 3/HO 2AH QUARTY (Most Precom Mature Forest Introducer Forest Int	# 10m - 1.5m (s 3 3) AVERAGE at also be competed for the first of th	heck OMLY one is 23°3.4 "as (16) [6] peal BANKFULL WILL BANKFULL	F1. DTH (meglins) Contensition Titiage Unas or locatinal Cone Position, Row Con Manag or Construction Jose Todactinal Cone	Midth Mexicolo
24 Onetern (- 13) (30 pc) 2-30 m - 40 m (- 67 m - 13) (25 pc) 2-15 m - 30 m (- 67 m - 13) (25 pc) 2-15 m - 30 m (- 67 m - 13) (25 pc) RIPARIAN ZONE AND FLOODI RIPARIAN VICTH R. (PERIAN) Work > 100 Work > 100 Negarita 5-10m COMMENTS FLOW REGIME (A Time of Eve) Situations flow with isolated pool	PLAN QUANTED PLAN	Information mm. ITV 3/HO 2AH QUARTY (Most Precom Mature Forest Introducer Forest Int	AVERAGE at 1.0 m (s 3 3) AVERAGE at also be compared to the	heck ONLY one to 33' - 4'87 (15 pt 2) E BANKPULL VIII	F.J., J. J. J. DTH (melfrs) DTH (melfrs) Contensation Triage Ubase or Industrial Copen Pasture. Rev Cop Mining or Construction ofs, no flow (information) 3.0	Midth Mexicolo
>4 0 meters (-13) (30 pc) >3 0m -4 0m (-75 pc) >1 0m -10 m (-75 pc) >1 0m -3 0m (-75 pc) -3 0m (-75 pc) EPARTILAN ZONE AND FLOODI BEARINAN WOTH IN THE BRAIL WIGH STOR Mederate 5-10m FLOW REGINE (AT Time of Eve Stream Rowing STREAM ROW (-75 pc) STRE	PLAIN QUAL FLOCO	Information mm. ITV 3/HO 2AH QUARTY (Most Precom Mature Forest Introducer Forest Int	# 10m - 1.5m (s 3 3) AVERAGE at also be competed for the first of th	heck OMLY one is 23°3.4 "as (16) [6] peal BANKFULL WILL BANKFULL	F1. DTH (meglins) Contensition Titiage Unas or locatinal Cone Position, Row Con Manag or Construction Jose Todactinal Cone	Midth Mexicolo

NA CONTRACTOR	SITE NUMBER		RIVER BA	SIN	DR	AINAGE AREA (ms²) _	
	EAM REACH (ft)						
ATE <u>3/24/20</u>	6 SCORER FSR		MMENTS	Intermiters	t stream	9	
VOTE: Cample	ete All Items On This Fo	orm - Refer to	"Fleid Eva	duation Manual fo	or Ohio's PHW	/H Streams" for inst	tructions
TREAM CHAN	NEL INONE/A	ATURAL CHA	NNEL IR	ECOVERED RE	COVERING [RECENT OR NO REC	OVERY
ODIFICATION							
				_			
SUBSTRA (Max of 4)	ATE (Estimate percent of a 0) Add total number of signi	every type of se ificant substrate	ubstrate pres	sent. Check ONLY by	<u>vo</u> predominant s	of hores A.S. R.	HHEI
TYPE		PERCENT	TYPE			PERCENT	Metric
	SLABS [16 p(s] DER (>258 mm) [16 ptg]	- 5	88	SILT [3 p1] LEAF PACK/WOO!	DV DEDDIS PLA	te1 ——	Points
	OCK [16 pt]	20	20	FINE DETRITUS		101	Substrate
	LE (65-256 mm) [12 pts]	30		CLAY or HARDPA			Max = 40
	/EL (2-64 mm) [9 pls]	23		MUCK [0 pts]			27
SAND	(<2 mm) [6 p(s]	1.5		ARTIFICIAL [3 pts]	1	-	
	a) of Percentages of	15	(A)			(B)	A+B
	, Boulder, Cobble, Bedrock MOST PREDOMINATE SUE		2.1	TOTAL NUMB	ER OF SUBSTE	6	
Maximum	Pool Depth (Measure the	maximum poo	i depth with	In the Et meter (200	fe evaluation re		Post Depth
30 certin	Pool Depth (Wessure the Avail bivinge pools from maters [20 pile]	maximum poo	i depth with	In the 61 meter (200 ipes) (Check ONL > 5 cm + 10 cm (1)	fiji evaluation re Y ove boxx		Post Depth Max = 30
30 centin 22.5 - 30	Pool Depth (Measure the s. Avail (songe pools from n naters (20 pts)	maximum poo	i depth with	In the 61 meter (200 ipes) (Check OAL > 5 cm + 10 cm (1) < 5 cm (5 pm)	rip evaluation re Y one bour 5 pts]	ach of the firme of	
22.5 - 30 > 10 - 22.5	Pool Depth (Wessure the Avail plonge pools from m rest [20 pts] 5 cm [36 pts] 5 cm [25 pts]	maximum poo	i depth with	in the 81 meter (200 lipes) (Check ONL > 5 cm + 10 cm (1) < 5 cm (3 pm) NO WATER OR 6	fig evaluation re Y one box: 5 pts] ADIST CHANNE	sch of the lime of	Max = 30
30 centin 22.5 - 30	Pool Depth (Wessure the Avail plonge pools from m rest [20 pts] 5 cm [36 pts] 5 cm [25 pts]	maximum poo	i depth with	in the 81 meter (200 lipes) (Check ONL > 5 cm + 10 cm (1) < 5 cm (3 pm) NO WATER OR 6	rip evaluation re Y one bour 5 pts]	sch of the lime of	Max = 30
22.5 - 30 > 10 - 22.5 > 10 - 22.5 COMMEN BANK FU	Pool Depth (Measure the Aucel Senge pools from a naters [20 pts] 5 cm [30 pts] 5 cm [25 pts] TE	maximum poo	depth with	In the 81 meter (200 ipes) (Check ONL > 5 cm + 10 cm (1) < 5 cm (1) pm (1) NO WATER OR 6 MAXIMUM (1)	If the selection review box of pis] ADIST CHARRIE POOL DEPTH (c) FOR ONLY one b	L (0 pen) Contiguetors):	8 ankfull
22.5 - 30 22.5 - 30 > 10 - 22.5 COMMEN BANK FU > 4.0 meter > 3.0 m - 4	Pool Depth (Measure the A evel frence pools from enters [20 ptg] 5 om [25 ptg] T6 LL WIDTH (Measured as th 5 (> 13) [30 ptg] (0m (> 67 - 13) [25 ptg]	maximum poo	depth with	In the 81 meter (200 ipes) (Check GNL > 5 cm + 10 cm (1) < 5 cm (5 pts) NO WATER OR 6	Of evaluation re Y one boar 5 pts] ADIST CHANNE POOL DEPTH (or work ONLY one b 3'3'-4'8') [15 p	L (0 pen) Contiguetors):	30 30
22.5 - 30 22.5 - 30 > 10 - 22.5 COMMEN BANK FU > 4.0 meter > 3.0 m - 4	Pool Depth (Measure the A Avail (Supple pools from maters (20 pts) one (30 pts) one (30 pts) one (35 pts)	maximum poo	depth with	In the 81 meter (250 lipes) (Check ONL >5 cm = 10 cm 11 < 5 cm 5 pm NO WATER OR 6 MAXIMUM neets) (Che > 1.0 m = 1.5 m >	Of evaluation re Y one boar 5 pts] ADIST CHANNE POOL DEPTH (or work ONLY one b 3'3'-4'8') [15 p	L (0 pen) Contiguetors):	Bankfull
22.5 - 30 22.5 - 30 > 10 - 22.5 COMMEN BANK FU > 4.0 meter > 3.0 m - 4	Pool Depth (Weasure the Avoid Stenge pools from enters (20 stel) Com (20 stel) Com (25 stel) T6 LL WIDTH (Measured as the (> 13) (25 prs) Om (> 6' 8' - 9' 7') (20 prs)	maximum poo	depth with	In the BT mener (250) (Check ONL > 5 cm + 10 cm \$1 < 5 cm \$1 pm \$1 NO VATER OR L MAXIMUM * 1.0 m - 1.5 m > \$1.0 m (3 2 2") [\$	PO CONCENSION OF THE POPULATION OF THE POPULATIO	L (to pos) iy - q centifyeters): rtej	Bankfull
22.5 - M 22.5 - M 10 - 22 - M COMMEN BANK FU > 4.0 meter > 3.0 m - 4 > 1.5 m - 3	Pool Depth (Weasure the Avoid Stenge pools from enters (20 stel) Com (20 stel) Com (25 stel) T6 LL WIDTH (Measured as the (> 13) (25 prs) Om (> 6' 8' - 9' 7') (20 prs)	maximum poo	depth with	In the BT mener (250) (Check ONL > 5 cm + 10 cm \$1 < 5 cm \$1 pm \$1 NO VATER OR L MAXIMUM * 1.0 m - 1.5 m > \$1.0 m (3 2 2") [\$	Of evaluation re Y one boar 5 pts] ADIST CHANNE POOL DEPTH (or work ONLY one b 3'3'-4'8') [15 p	L (to pos) iy - q centifyeters): rtej	Bankfull
30 contin 22.5 - 34 10 - 22.5 COMMEN BANK FU > 4.0 meter > 3.0 m - 4 > 1.6 m - 3	Pool Depth (Measure the Aveil Strange pools from in the Pool Strange pools from in the Pool Strange pools from in the Pool Strange pools from in T6. LL WIDTH (Measured as the 10 strange pool Strange	maximum pool cultured a consideration of the systems of the system	depth with a local water of	In the 81 meter (200 per) (Check ONL > 5 cm = 10 cm 11 < 5 cm = 10 cm 12 < 5 cm 5 cm 10 < 6 cm 5 cm 10 MAXIMUM MAXIMUM > 1.0 m (-1.5 m) AVERAGE LOS 1.0 m (-2.5 m) AVERAGE LOS 1.0 m (-2.5 m) LOS 1	Fig. evaluation rev. 7 of the boar 5 pts] ADIST CHANNE POOL DEPTH (4 orch ONLY one b 3*3*-4*8*) [15 pts] BANKFULL YILL LINE	L (0 per). A (1 per). A (2 p	Bankfull
30 continue 22.5 - 33 - 10 - 22.5 - 33 - 10 - 22.5 - 33 - 33 - 33 - 33 - 33 - 33 - 33 -	Pool Depth (Measure the Audit Strings pools from in Audit Strings pools from in Measure 120 ptg 5 cm 120 ptg 6 cm 120 ptg	maximum pood culturals or i	al depth with his case when the case when th	In the 81 maker (200 ijes) C(Check ON) > 5 cm - 10 cm < 5 cm + 10 cm < 6 cm + 10 cm < 7 cm + 10 cm < 10 cm - 15 cm < 1.0 cm - 15 cm	Fig. evaluation rev. 7 of the boar 5 pts] ADIST CHANNE POOL DEPTH (4 orch ONLY one b 3*3*-4*8*) [15 pts] BANKFULL YILL LINE	L (to pos) iy - q centifyeters): rtej	Bankfull
30 certin 22.5 - 30 10 - 22.5 20 22.5 20 22.5 20 22.5 20 22.5 20 20 20 20 20 20 20 2	Pool Depth (Measure the Audit Strings pools from in Audit Strings pools from in Measure (20 ptg) Com (20 ptg) Com (20 ptg) Com (25 ptg)	maximum pool of sheets or in the average of J	al depth with his second secon	In the 81 maker (200 ijes) C(Check ON) > 5 cm - 10 cm < 5 cm + 10 cm < 6 cm + 10 cm < 7 cm + 10 cm < 10 cm - 15 cm < 1.0 cm - 15 cm	POOL DEPTH (4 or part) BANKFULL YAE BANKFULL YAE Led d Right (R) as ic L R	L (0 per). A (1 per). A (2 p	Bankfull
30 certin 22.5 - 34 - 10 - 22.5 - 34 - 10 - 22.5 - 34 - 10 - 22.5 - 34 - 10 - 22.5 - 34 - 34 - 34 - 34 - 34 - 34 - 34 - 3	Pool Depth (Measure the Advised Steinger pools from in the pools from in the pools from in the pools from in the pool from in the pool from th	maximum pool oo d culturalis ox i con distribution of culturalis ox i con distribution of culturalis or cult	of depth with the second secon	In the 61 majer (200 in the 61 majer (200 in) in (Check Oil) if < 6 cm is proj MO WATER OR 8 MA XIMUM BEACH 1.0 m - 1.5 m > 1.0 m (2.5 7) if AVERAGE AVERAGE TE also be completely in the completely in t	POOL DEPTH (TO PE DO PETH (TO	L (0 per). A (1 per). A (2 p	Bankfull
30 certin 22.5 - 34 - 10 - 22.5 - 34 - 10 - 22.5 - 34 - 10 - 22.5 - 34 - 10 - 22.5 - 3	Pool Depth (Measure the Audit Strings pools from in Audit Strings pools from in Measure (20 ptg) Com (20 ptg) Com (20 ptg) Com (25 ptg)	maximum pool of sheets or in the average of J	of depth with the second secon	in the 81 meter (200 in the 81 meter (200 in the 87	POOL DEPTH (4 or part) BANKFULL YAE BANKFULL YAE Led d Right (R) as ic L R	L (0 per) L (0 p	Bankfull
SOURCE STATE OF THE STATE OF TH	Pool Depth (Measure the Advanced Service Servi	maximum pool oo d culturalis ox i con distribution of culturalis ox i con distribution of culturalis or cult	of depth within the property of the property o	In the 61 majer (200 in the 61 majer (200 in) in (Check Oil) if < 6 cm is proj MO WATER OR 8 MA XIMUM BEACH 1.0 m - 1.5 m > 1.0 m (2.5 7) if AVERAGE AVERAGE TE also be completely in the completely in t	PO CONTROL OF THE PORT OF THE	such at the time of ti	30 30 Bankfull Width
225 - 34 > 10 - 22	Pool Depth (Measure the Advanced Pool Depth (Measure the Pool Depth (Measure the Pool Depth (Measured as the 125 pts) Com (DS pts)	maximum pool of chinds or the system of a	of depth within the property of the property o	In the 81 maker (200 lipes) (Check Offi.) > 5 cm - 10 cm sill complete (Check Offi.) AND WATER OF 8 miles (Check Offi.) AND WATER OF 8 miles (Check Offi.) > 1.0 m (± 9 27) (8 miles (Check Offi.) AVERAGE: AVERAGE	If evaluation re Y are boars Y are boars S pts] ADIST CHARKE PORT	Lipped 9 Lipped 9 Londigletera): 9 Londigletera): 7 Londi	Sankfull Width Mac25
20 cmmen	Pool Depth (Measure the Acute Strings pools from in Strings pool from 150 pts] TE LL WIDTH (Measured as the 1-130 pts] Der (2 0 7 - 137) [25 pts] Der (3 0 7 - 137) [25 pts] Der (4 0 7 - 137) [25 pts] PARIAN ZONE AND FLOOR STRINGS POOL (1975) Wide > 100 m. (1975) Wide > 100 m. (1975) Wide > 100 m. (1975) Narrow -5m	maximum pool of shared or to average of J	of depth with the control of the con	In the 81 maker (200 lipes) (Check Offi.) > 5 cm - 10 cm sill complete (Check Offi.) AND WATER OF 8 miles (Check Offi.) AND WATER OF 8 miles (Check Offi.) > 1.0 m (± 9 27) (8 miles (Check Offi.) AVERAGE: AVERAGE	If evaluation re Y one boar ADIST CHARKE POOL DEPTH (ri ST32 - 6'8) [15 p BANKFULL WICE BANKFULL WICE LINE LINE LINE LINE LINE LINE LINE LIN	such at the time of ti	Sankfull Width Mac25
20 20 20 20 20 20 20 20	Pool Depth (Measure the Advantage of Section 1) Advant	This is a precision of the precision of	of depth with the second secon	In the 81 maker (200 in the 81	If evaluation re Y one boar ADIST CHARKE POOL DEPTH (ri ST32 - 6'8) [15 p BANKFULL WICE BANKFULL WICE LINE LINE LINE LINE LINE LINE LINE LIN	Lipped 9 Lipped 9 Londigletera): 9 Londigletera): 7 Londi	Sankfull Width Mac25
225 - 34 225 - 34	Pool Depth (Measure the Advised Steinger pools from in Advised Steinger pools from in Measure 120 pela Steinger pools from in Measured as the 120 pela Steinger pools from 125 pela Steinger pool 125 pela Steinger pools from 125 pela Steinger pools f	maximum pood of the service of 1 DPLAIN QUALIFICATION TO 1 FLOODP L N GENERAL QUALIFICATION TO 1 GENERAL QUAL	of depth with the second secon	In the 81 maker (200 in the 81	Fig resilvation re Y des box: Y des box: 9 fels ADIST CHUNKE POOL DEPTH (INCR.) ONLY one b S73 - 487 (15 p BANKFULL WICE BANKFULL WICE R III III III III III III III III II	Lipped 9 Lip	Bankfull Wideh
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South Manual Comment of the Comment	Pool Depth (Measure the Advantage of Advanta	maximum pood duliverite or in the average of 3 has averag	Information management of the state of the s	in the 81 males (200 in the 81 males (200 in) the 81 males (200 in) the 10 ms 11 < 5 cm 10 ms 11 < 5 cm 15	If evaluation re Y dee boars of pits] ADIST CHUNCHE POOL DEPTH (I with ONLY one be 32" - 4" of 15"	Lipped 9 Lip	Bankfull Wideh

QHEI PERFORMED? - Tyes The QHEI Score(IF	Yes, Altach Completed QHELForm)	Modifie
J WWH Name	Distance from Evaluated Stream	Class 1
CWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WAT	ERSHED AREA. CLEARLY MARK THE SITE LOCATION	
ISGS Outsing's NameNRCS S	od Map Page NRCS Soil Map Stream Order	
County Township/City		
MISCELLANEOUS		
lase Flow Conditions? (Y/N)	Quantity	
Photograph Intermetion:		
Devaled Turbidity? (Y/N) /V Canopy (% open): 7.5		
Nere samples collected for water chemistry? (Y/N:(Note lab sample r		
Field Measures Temp (*C) Dissolved Oxygen (mg/l) pH		
s the sampling reach representative of the stream (YAN) Y If not please w	gtain	
Additional comments/description of pollution impacts		_
BIOTIC EVALUATION		
Performed? (Y/N): V (If Yes Record all observations, Voucher collection	ns optional NOTE all voucher samples must be labeled v	with the sile
	om the Primary Headwater Habitat Assessment Manual)	
Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macrol	(Y/N)Voucher? (Y/N) nvertebrates Observed? (Y/N)Voucher? (Y/N)	_
Comments Regarding Biology		
DRAWING AND NARRATIVE DESCRIPTION OF ST	REAM REACH (This must be completed)	
Include important landmarks and other features of interest for site eva		
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An 1150

SITE NAME LOCATION _ Green Hope	z Herriger)			etrics 1, 2, 3) :	10
ENGTH OF STREAM REACH (II)	IN SINIG - RIVER	BASIN	DF	AINAGE AREA (mi²)	
JOURER 1 2	COMMENTS	Called and Maria	Add at the s		
NOTE: Complete All Items On This	s Form - Refer to "Fleld	Evaluation Manual fo	or Ohio's PHV	H Streams" for Inst.	ructions
STREAM CHANNEL THONE	E/NATURAL CHANNEL	RECOVERED TRE	COVERING [DECENT OF NO DED	OUCON.
MODIFICATIONS:				MISSELF SKING KEC	OVERT
SUBSTRATE (Extensite percent. (Max at 40), Add total number of a	of every tree of every				
TYPE (Mins of AR), Add total number of a	American personal places (or	ALM RANGE OF BY A RAW ALFORD	g prodeminant s fic score is sum :	bstrate TYPE boxes of boxes A & B	HHEI
TYPE BLDR SLABS [16 pls] BOULDER (-255 mm) M6 pls		SILTEADE		PERCENT	Metric Points
BOULDER (>258 mm) [16 pts		LEAF PACK/WOOD	Y DEBRIS [3 pt	9] 60	
COBBLE (65-255 mm) [12 pls]				-	Substrate
GRAVEL (2-64 mm) [8 pts] SAND (<2 mm) [6 pts]	_ <i>10</i>	MUCK [0 pts]			
a and (-Emmi) [a pis]		ARTIFICIAL [3 pis]			10
Trital of Parcentages of Bits Slabs, Bounter, Cobbin, Beard	00x 1 (0	7		(B)	A+B
CORE OF TWO MOST PREDOMINATE I	EVESTRATE TYPES:	TOTAL NUMBE	ER OF SUBSTR	ATE TYPES:	
Maximum Pool Depth (Measure providence pools from	the maximum pool depth w	ithin the 51 mass (200 s	fri matkratina a-	4 TH H	
> 30 centimeters (20 pts)		ENDER CURCK ON! A	One box:	ch at the lime of	Pool Depti
> 22.5 - 20 cm (30 pts)		>5 cm - 10 cm [15	pts]		
> 10 - 22.5 on [25 pts]		NO WATER ON MO	CEST CHANNEL	[69(9]	3
COMMENTS		MAXIMUM P	OOL DEPTH (c	entideterati	
BANK FULL WIDTH (Measured as	s the average of 3-4 measu			/	Bankfull
+3.0m +4.0m (+12) [30 per] +3.0m +4.0m (+277 -13)[25 pts]		Tements) (Chec 1 > 1.0 m - 1.5 m > 3° 1 1.0 m (< 3° 3°) [5 p	3"-4"8") [15 pt	oj .	Width
+1±m -20m (>45-97) [20 pts	9]		, and	1-7	MaxxxII
COMMENTS	12-12-12-12-12	AVERAGE BA	ANKEILLI WIDT	W (matter)	5
			THE PROPERTY OF	II (IIIagers)	
RIPARIAN ZONE AND FLO	ODPLAIN QUALITY &	must also be complete	d .		
L R ((Per Bank)	FLOODFLAIN DUAL		Hight (H) 316 520	ong downstream &	
Mde >10m	A Hotel Pres	forminget per Bank) erst. Welland	L R		
□ □ Moderale 5-10m	O T Syntature	Ferent, Shout or Old		Conservation Titage	
□□ Narrow <5ro	Field	, Park, New Field		Den Pasture, Row	
□ □ None	Fenced Pa		7.7	rop.	
COMMENTA	7 01000 70	AUIO	-7.1LJ N	fining or Construction	
FLOW REQUIRED AT Time of	Eleberation (Check ONLY)	one bord			
The state of the s		Moist Channe	el, isolated pools	no Sov (Memitten)	
- screen revenu		5. Dry diamet.	no water (figne	real)	
Street Rowing Subsurface dow with incident COMMICTE	100000000000000000000000000000000000000				
SHUOSITY (Number of bend	1s per 61 m (200 ft) of chann		nvi.		
Gubsurface dow with incisted;	ds per 61 m (200 ft) of chann		oxi 🗇	30	

	NAMELOCATION SHOOT HOPE - HACKER	initional frame frame inches (149).
		PH/16-7 RIVER BASIN DRAMATE AREA (mil)
		LONG RIVER CODE RIVER MILE
	3/24/2016 SCORER PS/Z	
NOT	TE: Complete All Items On This Form - F	Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
	EAM CHANNEL	ALCHANNEL FRECOVERED TRECOVERING TRECENT OR NO RECOVERY
_		rpe of substrate present, Check ONLY two predominant substrate TYTE boxes
TYP		substrate types found (Max of 8). Final metric score is sun of boxes A 8 B. HHE ENT TYPE PERCENT Metri
8	BLDR SLABS [16 pts]	Point
50	J / BEDROCK [16 pt]	Substruction of the Substr
9		CLAY OF HARDPAN (0 pl)
20 20 20		MUCK [0 pts]
	Total of Percentages of Bidr Stabs, Boulder, Cobble, Bedrock40	(A) (J) (B) (G) A+B
COR	RE OF TWO MOST PREDOMINATE SUBSTRA	TE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES:
3	> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [28 pts] COMMENTS	- 45 cm (5 pts) 10 WATER OR MOIST CHAMBLE (0 pts) MAXMUM POOL DEPTH (4 numbers):
-	BARK FULL WIDTH (Measured as the arm	rage of 3-4 measurements) (Check ONLY one box): Banktu
8	> 4 Cimiters (> 13) [00 pcs] > 3.5m + 4.0m (> 0'7"-13) [25 pts]	1.0 m - 1.6 m (> 3'3" - 4'8") [15 pte] Width 1.0 m (- 3'3" [5 pts] Max=30
3	115m +36m (2 4 8" - 2 F) (20 post	-1
	COMMENTS	AVERAGE BANKFULL WIDTH (myders)
	100103-0002	
	RIPARIAN ZONE AND FLOODPLAIR	LOODPLAIN QUALITY
	RIPARIAN WIDTH L R / (Per Bank)	FLOODPLAIN QUALITY L. B. (Most Predominant per Bank) L. R.
	RIPARIAN WIDTH L R (Per Bank) Wide >10m	Mature Forest Wetland Immature Forest Strub or Old
	RIPARIAN WIDTH L R (Per Bank) Wide > 10m	L R Mature Forest, Wetland
	RIPARIAN WIDTH F	B. What Precomment per Bank) R Conservation Trillage
	RIPARIAN WIDTH F	L B (Most Predominant per Bank) Matter Forest, Wetland Minimum Forest, Shrub or Old Minimum Forest, Shr
	RIPARIAN WIDTH R	Moute Precomment per Bank)

OHEI PERFORMED? - TYES TO OHEI Score		Stream
		Class
DOWNSTREAM DESIGNATED USE(S)	Distance from the squatest Streets	
	Distance from Evaluated Ettern	
T EWH thame:	D. Signog from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING TH	E ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION	
USGS Quadrangle Name	NRCS Soil Map Page NRCS Soil Map Stream Order	
County	ounship / Coy.	
MISCELLANEOUS		
Base Flow Conditions? (Y/N), Y Date of last precipitation,	Quantity	
Photograph Information		
Elevated Turbidty ⁹ (Y/N)N Canopy (% open)		
Were samples collected for water chemistry/ (Y/N);V (No	le lab sample no or of and attach results) Lab Number	
Field Measures Temp (°C) Dissolved Oxygen (mg/l)	pH (8 U.) Conductivity (µmhos/cm)	
is the sampling reach representalive of the stream (Y/N) Y	not; please explain:	
Additional comments/description of politico imports		
BIOTIC EVALUATION		
Performed? (Y/N): N (If Yes, Rocard all observations Villa (If Yes, Rocard all observations Villa (If Yes) Rocard (I	counter coloctions gettings. NOTE, all youther samples must be baded of if cast shames than the firming Handsonian Matter Assessment Mattaut), as a Discovered 7 (YR). Vouciner 7 (YR). Vouciner 9 (YR). Aguate Macromortebrates Observed 9 (YR). Vouciner 9 (YR).	
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Photograph information	SVIII (II)	
Devaled Turbidity* (Y/H) N Cznopy (% open) 70		
Were samples calculed for water chemistry? (Y/N) / (Note lab sa		
Field Measures Temp (°C) Dissolved Oxygen (mg/l)		
Is the sampling reach representative of the stream (Y/N) If not ple	ase taptim	-
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	CATION Govern His	MBER 4H-3/2	sli6 - 2 RIVER	BASIN	DR	AINAGE AREA (mi²)	
ENGTH OF ST	REAM REACH (N)	LAT.		ONG	RIVER CODE	RIVER MILE	
NOTE: Com	plete All Items On 1	his Form - R	efer to "Field E	valuation Manua	for Ohlo's PHW	'H Streams" for Inst	uctions
TREAM CH	ANNEL (3/N	ONE/NATURA	L CHANNEL C	RECOVERED [RECOVERING [RECENT OR NO REC	OVERY
MODIFICAT	ONS:						
SUBS	TRATE (Estimate perc f 40) Add total number	ent of every ty	pe of substrate p	resent, Check ONL	Y two predominant s	ubstrale TYPE boxes	HHE
TYPE		of significant Si PERCI	ENT TYPE		HER IC SCORE IS SUIT	PERCENT	Metric
	DR SLABS [16 pts] ULDER (>256 mm) [16	nts] /J			DODY DEBRIS [3 p	is]	
27, BE	DROCK [18 pt]	45					Substrate Max = 43
)BBLE (65-256 mm) [12 RAVEL (2-64 mm) [9 pb		_ 00		PAN [U PI]		20
	WD (<2 mm) [6 pts]				pis]		22
	Total of Percentages of		(A)	7		(B)	A+B
Bidr 6	nbs, Boulder, Cobbie. I TO MOST PREDOMINA			TOTAL N	MBER OF SUBST	RATE TYPES:	1
-	num Pool Depth (Mean	ten the course	um coct death s	within the 51 meter	200 f6 evaluation re	each at the time of	Pool Depti
evelor	tion. Avoid plunge pool	s from road cut	vertic or latorin was	erpoes) (Check	DNLY one box):		Max ≈ 30
	ntimaters [20 pts] - 30 cm [30 pts]			3 semth pts	Executed NAMES	COTAGE SECTOR	15
	22.5 cm [25 pts]	_		1 NOWATER	OR MOKET CHANNE	[enq 0] L	-
COMI	A ENTO			MAXIM	UM POOL DEPTH	centispéters):	
3. BANK	FULL WIDTH (Measu	ed as the ave	rage of 3-4 meas	urements)	(Chack ONLY one	box):	Bankfull Width
3.0 m	elers (> 13') [30 pts] - 4.0 m (> 9'7" - 13') [3			urements) > 1.0 m - 1.5 > 1.0 m (5.3)	7) [5 pts]	prag	Mass20
☐ > 1.5 m	-3.0m (>4'8"-9'7")	[20 pts]				Ft. 1.5	1 5
COM	MENTS			AVERU	GE BANKFULL W	DTH (mydérs)	
			This informati	on <u>must</u> also be co	mplated		
	RIPARIAN ZONE AN	D FLOODPLA	N QUALITY :	&NOTE: River Left (L) and Right (R) as	ooking downstream\$r	
L 6	RIPARIAN WIDTH		LOODPLAIN QU L R (Most P	redominant per Bank) <u>L R</u>		
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				mal_Park, New Field		Crop	
00	COMMENTS		☐ Fenced	Pasture		Mining or Construction	_
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D STRI	0.5 EAM GRADIENT ESTIN	_			denate to Severe	7 Severe uni	

DOWNSTREAM DESIGNATED USE(S)	If Yes, Atlact: Completed QHEI Form)	Stream
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MAPPING: ATTACH COPIES OF MAPS, INCLIDING THE ENTIRE Y 1953 Gedrangle Name	Distance from Evaluated Stream NATERISHED AREA, CLEARLY MARKT THE SITE LOCATION S Soil Map Plage:NRCS Soil Map Stream Order NR on, or ki, and sittach results) Lab Number PH (S U.)Conductivity (jumhos/cm) stream	Class
MAPPING: ATTACH COPIES OF MAPS, INCLIDING THE ENTIRE V 1503 Gedrande Name	Distance from Evaluated Stream NATERISHED AREA, CLEARLY MARKT THE SITE LOCATION S Soil Map Plage:NRCS Soil Map Stream Order NR on, or ki, and sittach results) Lab Number PH (S U.)Conductivity (jumhos/cm) stream	Class:
MAPPING: ATTACH COPIES OF MAPS, INCLIDING THE ENTIRE V SGS Guestrands Name NRC Township / C Townsh	Distance from Evaluated Stream NATERISHED AREA, CLEARLY MARKT THE SITE LOCATION S Soil Map Plage:NRCS Soil Map Stream Order NR on, or ki, and sittach results) Lab Number PH (S U.)Conductivity (jumhos/cm) stream	Class:
MAPPING: ATTACH COPIES OF MAPS, INCLIDING THE ENTIRE V 1503 Gedrande Name	Distance from Evaluated Stream NATERISHED AREA, CLEARLY MARKT THE SITE LOCATION S Soil Map Plage:NRCS Soil Map Stream Order NR on, or ki, and sittach results) Lab Number PH (S U.)Conductivity (jumhos/cm) stream	Class:
MAPPING: ATTACH COPIES OF MAPS, INCLIDING THE ENTIRE V 1503 Gedrande Name	Distance from Evaluated Stream NATERISHED AREA, CLEARLY MARKT THE SITE LOCATION S Soil Map Plage:NRCS Soil Map Stream Order NR on, or ki, and sittach results) Lab Number PH (S U.)Conductivity (jumhos/cm) stream	Cla

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Paritifolm Page - 2

TE HAMEA OCATION <u>Good H</u>	MICH HIF SIMIL	3 RIVER BASI	v.	.000	NNAGE AREA ets ²)	
NGTH OF STREAM REACH (ft)	LAT.	LONG	RIV		RIVER MILE	
NOTE: Complete All Items On Ti			erecord Are ation Manual for		H Streams" for Instr	uctions
		1			RECENT OR NO RECO	
IODIFICATIONS:						
SUBSTRATE (Estimate perce	nt of every type of	substrate preser	t, Check CALY	predominant e	abstrate TYPE boxes	ннеі
(Max of 411). Add total number of YPE	PERCENT	TYPE		SCORE IN BUILTY O	PERCENT	Metric
BLOR SLABS [16 pls] BOULDER (>256 mm) [16	nts]		SILT [3 pl] .EAF PACKAVOODY	DEBRIS D of	91 Z	Points
BEDROCK [16 pt] COBBLE (65-256 mm) [12 p	pioj	00 (THE DETRUTUE (1)			Substrate Max = 45
COBBLE (65-255 mm) [12 p			CLAY or HARDPAN	[0 pl]		1
3 GRAVEL (2-64 mm) [8 pis) 3 SAND (<2 mm) [6 pis]	65		MUCK [8 pts] ARTIFICIAL [3 pts]			15
Total of Percentages of		(A)			(B) ()	A+0
Budr Stabs, Boulder, Cobble, Be ORE OF TWO MOST PREDOMINAT	edrockb_	15	TOTAL NUMBE	R OF SUBSTR	- / /	A+B
Masimum Pool Depth (Measa						Pool Depth
*valuation Avaid glungs pools * 30 certificators (20 pts)				one box?	ac i ai ti e tilic di	Max = 30
3 >> 225 - 30 cm (30 pts)		- 5	4.5 cm (5 pts)			25
3 +10 -22.5 cm (25 pis)			NO WATER ON ME			
COMMENTS			MAXIMUM PO	DOL DEPTH (controllers):	
BANK FULL WIDTH (Measure	d as the average o			k ONLY one b		Bankhill
> 4.0 meders (> 13') [30 pts] , > 3.0 m = 4,0 m (> 9' 7" - 13') [25	pte]	3	> 1 0 m - 1.5 m (> 3" :: 1.0 m (< 3" 3") [S p		(s)	Width Max=30
7 > 1.5 m + 3.0 m (> 4'8" - 9'7") [2	.0 prs]				Ft 20	20
COMMENTS			AVERAGE B	ANKFULL WID		10
	Thi	Information mu	st also be complete	-4		
RIPARIAN ZONE AND	FLOODPLAIN QUA	ALITY 12-NOT	E River Left (L) and		oking downstream 🌣	
RIPARIAN WIDTH L R (Per Bank)	L R	PLAIN QUALITY	nanl per Bank)	I P		
□ □ Wide >10m	0.0	Malure Forest	Welland		Conservation Tillage	
☐ Moderate 5-10m	e ''	finmalure Fore	ist, Shrub or Old		Urban or Industrial	
☑ Narrow <5m	e /9	Residential Pr	øk, New Field		Open Pasture, Row Orop	
None COMMENTS	03	Feaced Pastur	е	00	Mining or Construction	
/ FLOW REGIME (AI Tin	ne of Evaluation) (Check ONLY one	box):			
Stream Flowing Subsurface flow with isol COMMENTS			Mast Chann	nel, isolated po , no water (Ep	ols, no flow (Intermittent hemeral))
SINUDSITY (Number of		00 ft) of channel)	(Check ONLY one	box)		
	1.0		20	H	3.0	
None G 5					Severe (No. 1/	10.61
None G 5 STREAM GRADIENT ESTIMA	TE JMO	demile o arroom	Moderate I			
None 6 5	TE A Mo	derate (2 M190 h)	☐ Moderate I	o severe	D Octoballia p	_

TE NAME/CO	CATION SHOW Mayer - He SITE HUMBER H	Mark - 4 and base	м	CRAINAGE AREA (mi ²)	CI
TE 3/25	TREAM REACH (R) /ZOILE SCORER F3K	CONVENTS A	lemeral Stream		
NOTE: Com TREAM CH NODIFICATI				S PHWH Streams" for instru NG RECENT OR NO RECO	
SUBS (Max o	TRATE (Estimate percent of evi of 40). Add total number of signific	ent substrate types found (N PERCENT TYPE	nt Check ONLY two predon lex of 8) Final metric score I SILT 13 pill	ninani subsinkle TYPE boxes is sum of boxes A & B PERCENT	HHEI Metric Points
	DULDER (>256 mm) [16 pks] EDROCK [18 pt] DB3LE (65-256 mm) [12 pts] RAVEL (2-64 mm) [9 pts] AND (<2 mm) [6 pts]		LEAF PACKWOODY DEBR FINE DETRITUS [3 pts] CLAY or HARDPAN [0 pt] MUCK [0 pts] ARTIFICIAL [3 pts]	15 (3 pts) 40	Substrate Max = 40
Bldr Si	Total of Persentages of lebs, Boulder, Cookie, Bedook YO MOST PREDOWINATE SUB-	O (A)	TO TAL NUMBER OF	CUBSTRATE TYPES:	A+B
> 30 ce > 22.5	num Pool Depth (Measure the nation. Avoid plunge pools from resemblenters [20 pts] - 30 cm [30 pts]	raximum pool depth within	the #1 meter (200 fg evels les) (Check OW, Fore be > 5 cm - 10 cm (15 pts) < 5 cm (5 pts)	ation reason at the time of x):	Paal Depth
1 > 10 -	22.5 cm (25 pts)		NO WATER OR MOINT C	HANNEL TO pist	0
		ar	NO WATER OR MOUST C	EPTH (continues):	
BANK >40m >30m >15m	72 5 cm (74 pts) HENTS: FULL WIDTH (Measured as thi toters (> 13) (30 pts) 1 - 4 0 m (> 9° T' - 13) (25 pts) 2 - 3 0 m (> 4° 8' - 9° 7°) (20 pts)	To saverage of 3-4 measurem	MAXIMUM POOL D wris) (Check ONL > 1,0 m - 1,5 m (> 3*3*-4* \$ 1.0 m (< 3*3*) [6 pts]	EPTH (continues):	Benkfull Width Maxes 10
BANK 3 > 4 0 m 3 2 m 3 1 5 m	72 5 cm (75 pt) MENTS NEUL WIDTH (Neasured as Incidens (> 13') (30 pts) 1 - 4 0 m (> 9'T - 13') (25 pts)	<u></u>	MAXIMUM POOL D wris) (Check ONL > 1.0 m - 1.5 m (> 3'3'-4' \$ 1.0 m (< 3'3') [5 pts] AVERAGE BANKFI	Yone box): 8) [15 pts]	Width
BANK >40m >30m >15m	225 am (25 pts) MENTS. FULL WIDTH (Measured as this desc): 13 (30 pts) 1-4 tim (-9 TT-15) (25 pts) -3 tim (-9 TT-15) (20 pts) MENTS. RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH	This information more plain quality which floodplain quality which floodplain quality flo	MAXIMUM POOL D ##IS) (Check ON. **10 m - 15 m - 5 37 - 4 **1.0 m (\$ 3'37 5 yes) AVERAGE DANKFI TE: River Left (L) and Right (Thing) per Bank)	Y one box): 2) (15 ptq) St. WOTH (mylars) (R) as looking downstream\$ R	Width
BANK 3 > 4 0 m 3 2 m 3 1 5 m	725 cm (75 ptd) IEP 18. FULL WIDTH (Measured as Interes of 13 j 18 ptd) - 4 0 m (0 47 m ls) 18 ptd) - 3 0 m (0 47 m ls) 18 ptd) IEP 18. RIPARLAN ZONE AND PLOOD RIPARLAN WIDTH (Per Bank) Wide > 10 m	This information management of the property of	MAXIMUM POOL D MAXIMUM POOL D (Check ONL) > 1.0 m - 1.5 m (> 3.2 ** 4 ** 4 ** 5 ** 1.0 m (> 3.3 ** 1.6 m e) AVERAGE BANKFI EXPRANS A SEA OF COMPLETE (List also be completed TE. River Left (L) and Right (Te. River Left (L) and Right (L) and Right (L) and Right (L) and River Left (L) and River Left (L) and Right (L) and River Left (L) and	Yone box): Yone box): (a) [15 pte] JLL WIOTH (myfars) (R) as looking downstream &	Width
COMM BANK >40 m >30 m >15 m COMM	725 cm (75 ptd) IEPTS FULL WIDTH Measured so the leave (2 1) (80 ptd) 1-40 m (P PT - 15) (85 ptd) 1-30 m (P 4*8 - 0*7) (20 ptd) MENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH (Per Bank) Wides 16m Neirow <5m	This information me plain Quality 4NO FLOODPLAN QUALITY L B (Most Preter	MAXIMUM POOL D mts) (Check ONL) > 1.0 m - 1.5 m > 3.7 - 4	PETH (card) feeters: Y one box): 3) (15 pts) JLL MIDTH (mylars) (R) as looking downstream R Conservation Tillage	Width Maximal S
BANK 3 > 40 m 3 > 30 m 3 > 15 m COM	725 em (75 pts) (FULL WIDTH (Measured as Interes 1-21) (20 pts) (FULL WIDTH (Measured as Interes 1-21) (20 pts) (FULL WIDTH (Measured as Interes 1-21) (20 pts) (FULL WIDTH (Measured as Interes 1-20 pts) (FULL WIDTH (Measured as Interes 1	This information me PLAIN GUALITY AND FLOODPLAIN GUALITY AND FLOODPLAIN GUALITY (Most Present Mature Fore To Frenced Past	MAXIMUM POOL D MIS) (Check ON) > 1.0 m - 1.5 m > 2.7 - 4 > 1.0 m < 2.7 \(\) E AVERAGE DANKFI MIS AVER	PEPTH (cardyfaters): Yone box): 15 (15 pts) JLL WOOTH (myfats) (R) as looking downstream\$ (R) as looking downstream\$ Quentle box (blacking) Quentle box (blacking) Quentle box (blacking) Quentle box (blacking) Alled poods, no tow (internillen)	Width Hax≪30

QHEI PERFORMED	17 - 🗍 Yes 🖪 No OHE Score	(If Yes_ All	sch Completed QHEI Form)	S
DOMAICTREAM DE	SIGNATED USE(S)			M
WWH Name:			Distance from Evaluated Stream	C
CWH Name:			Distance from Evaluated Stream	
EWH Name:			Distance from Evaluated Stream	
MAPPING: ATTACH	COPIES OF MAPS, INCLUDING T	THE <u>ENTIRE</u> WATERSHE	DAREA. CLEARLY MARK THE SITE LOCA	ATTON
ISGS Quedrengle Name		NRCS Soil Map	Page NRCS Soil Map Stream O	rder
ounty:				
MISCELLANEOUS				
	N Dale of last precipitation	0: 3/24/2016	Quantity	
Photograph Information			- 1500000	
		2/		
Sevated Turbinity? (Y/N):				
			and attach results) Lab Number	
			Conductivity (µmhos/em)	
s the sampling reach represe	ntative of the stream (Y/N)	If not please eagle =		
		×		
all to the same and the same	on of polution impacts:			
HOLESCH GEORGIE COMMERCA/2890/20	on or potalitin regular.			
ish Observed? (Y/N) Frogs or Tadpoles Observed?	(If Yes, Record all observations IO market Fed. de appropriété l' Voucher? (Y/N) Salamar (Y/N) Voucher? (Y/N)	feld data cheets from the P	al, NOTE: all voucher samples must be laborated the samples and the samples and the samples are the samples and the samples are the samples and the samples are samples are samples are samples and the samples are samples are samples are samples are samples are samples and the samples are sa	46
Performed? (Y/N):/	(If Yes, Record all observations IO market Fed. de appropriété l' Voucher? (Y/N) Salamar (Y/N) Voucher? (Y/N)	feld data cheets from the P	Voucher? (Y/N)	46
Performed? (Y/N):/ Fish Observed? (Y/N)_ Frogs or Tadpoles Observed? Comments Regarding Ending) DRAWING A	(if Yee, Record oil observations, 10 member. Include appropriate If Voucher? (YRI)	nders Observed? (Y/N)_ Aquatic Macroinvertebr	Voucher? (Y/N)	N)
Performed? (Y/N):/ Fish Observed? (Y/N)_ Frogs or Tadpoles Observed? Comments Regarding Ending) DRAWING A	(PYee, Record oil observations, 10 mardon. Indicate appropriate II Voucher? (V/N)	nders Observed? (Y/N)_ Aquatic Macroinvertebr	Voucher? (YN)	N)
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Performed' (YN):/ Fish Observed' (YN). Frags or Tadpotes Observed' Comments Regarding Saday; DRAWING A Include important land	(PYee, Record oil observations, 10 mardon. Indicate appropriate II Voucher? (V/N)	nders Observed? (Y/N)_ Aquatic Macroinvertebr	Voucher? (YN)	N)
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Performed? (Y/N): N Tish Observed? (Y/N). Frogs or Tatglodes Observed? DRAWING A Include impert and face FLOW	(If Yee, Record ell observations, 160 merbers, Industries appropriet (170 merbers, Industries Appropri	feel data chee's from the F noders Observed? (YIN). Againtic Mazz dirivertebr PPTION OF STREAM Read for alle evaluation.	Voucher? (YN)	N)
Performed' (YN):/ Fish Observed' (YN). Frags or Tadpotes Observed' Comments Regarding Saday; DRAWING A Include important land	(If Yee, Record ell observations, 160 merbers, Industries appropriet (170 merbers, Industries Appropri	nders Observed? (Y/N)_ Aquatic Macroinvertebr	Voucher? (YN)	N)
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QHEI PERFORMEDT - TYES THE QHEI	Score(If Yes, Allach Completed OHEI Form)	Stream
DOWNSTREAM DESIGNATED USE(\$)		Class 1
	Distance from Evaluated Stream	
	Distance from Evaluated Stream	
SWH Name	Distance from Evaluated Stream	
	DING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCA	
USGS Quadrangle Name	NRCS Soil Map Page NRCS Soil Map Stream O	-der
County:	Township / City	
MISCELLANEOUS		
Base Flow Conditions? (Y/N) N Date of last pred	spitetion 3/24/2016 Quantity	
Photograph Information:		
Elevated Turbidity ⁹ (Y/N); Canopy (% open	en): 50	
	(Note lab sample no_or_id_and attach results) Lab Number	
Field Measures Temp (°C) Dissolved Oxyge	en (mg/l)pi-' (S.U.)Canductfvity (µmhos/cm)	
Is the sampling reach representative of the stream (Y/N)_	Y II not, please explain	
	W	
Additional comment stress of piles of possess and attail		
BIOTIC EVALUATION		
	tions: [Voucher collections optional, NOTE: all voucher camples must be labe priate field data sheets from the Primary Headwater Habits! Assessment Manu	
Fish Observed? (Y/N) Voucher? (Y/N) Se Frogs or Tatbooles Observed? (Y/N) Voucher? (Y/N	alamanders Observed? (Y/N) Voucher? (Y/N) N) Aquatic Macroinvarteorales Observed? (Y/N) Voucher? (Y/	N)
Comments Regarding Biology		
-		
DRAWING AND NARRATIVE DES	SCRIPTION OF STREAM REACH (This must be complete	ed):
	of interest for site evaluation and a narrative description of the stream	
	s Zor na	
	1 /2 32	
der chidnes	14	
FLOW	The state of the s	
FLOW		
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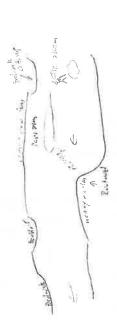
	di a anti
GTH OF STREAM REACH (R) LAT	DRAINAGE AREA (m²)
	COMMENTS Extragel divers
7000000	er to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
	CHANNEL TRECOVERED RECOVERING TRECENT OR NO RECOVERY
ODIFICATIONS:	CONTINUE EXPLICIT EXPLICATION OF THE PROPERTY
	of substrate present, Check ONL Y two predominant substrate TYPE boxes strate types found (Max of 8). Final matric score is sum of boxes A & B. HHE
YPE PERCEN	IT TYPE PERCENT Metri
	G C LEAF PACKWOODY DEBRIS (3 pls)
BEDROCK [16 pt]	FINE DETRITUS [3 ptc] Substra
CORBLE (65-256 mm) [12 pls]	CLAY or HARDPAN [0 pQ]
I SAND (<2 mrn) [8 pts]	D ARTIFICIAL [3 pis]
Total of Percentages of	(A) (B) A+B
Bidr Sabs, Boulder, Cobble, Bedrock	. 6
	m pool depth within the 61 mater (200 ft) evaluation reach at the time of the street o
> 30 centimeters [20 pts]	7 + 5 cm + 10 cm [15 pls] 3 + 5 cm (5 pls]
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	NOWATER OR MOIST CHANNEL [8 pm]
COMMENTS	MAXIMUM POOL DEPTH (centing elers):
BANK FULL WIDTH (Measured as the average	Visit-South and district
> 4 0 meters (> 13') [30 pts]	7 310m - 15m 0 33° - 4°80 (15 mts) Width
	\$ 1.0 m (\$ \$73°) [5 ptm]
> 15m - 30m (> 4'8"-9'7') [20 pts]	+/·
	AVERAGE BANKEIII L WIDTH (meters)
J >15m -3.0m (>4'8"-9'7') [20 pts]	AVERAGE BANKFULL WIDTH (most rs.)
COVMENTS	This information must also be completed
COMMENTE	This information must also be completed
RIPARIAN ZONE AND FLOODPLAIN C RIPARAN WIDTH L. R. (29r Bant)	This information must also be completed DUALITY ANOTE: River Left (() and Right (R) as looking downstream a DODR LAN DUALITY R (Most Predominant per Bains) L R
RIPARIAN ZONE AND FLOODPLAIN C RIPARIAN WIDTH FLO L R (Per Bant) L	This information must also be completed DUALITY ONOTE: River Left (L) and Right (R) as looking downstreams DODPLAIN QUALITY R (Most Predominant part starts) Musture Forest, Welshard
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	core (II Yes, Atlach Completed QHEI Form)	Strea
DOWNSTREAM DESIGNATED USE(S)		Modil
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	Distance from Evaluated Servin	
	NG THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION	
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	Township / City.	
MISCELLANEOUS		
	3/24/2016 Quantity	
Photograph Information		
Fleveled Turbidity? (Y/N): V Canopy (% open)	. 60	
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is the sampling reach representative of the Stream (Y/N)	r II not please appara	-
Additional comments/description of poliution impacts		- 111
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Stream 10 - Excellent

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ort Name: Stream 12	ified Class	i II		III-ni	1-033011 14	
ChieFPA Primary	Headwa	ter Habit Hi	at Evalua IEI Score (s	tion F	orm 🗀	(/
HH-MDT-033016-09 SITE NUMBER LENGTH OF STREAM REACH (II) DATE SCORER 2/1/1/	BLE COM	RIVER BASINLONG	RIVE	CODE_	AINAGE AREA (mi ²) RIVER MILE	
NOTE: Complete All Items On This For STREAM CHANNEL DINDRESS MODIFICATIONS:		III. GIRECOV			H Streams' for Instru	
1. SUBSTRATE (Estimate percent of to	PERCENT S 10 25 30	pes lound (Mex of TYPE SILT CLAY	Her ONL TIMO IN 18), Final metric si [3 pt] FPACKIMOODY E FDETRITUS [3 pt Y OF HARDPAN [0 K [0 pts] FFICIAL [3 pts]	pebrus (3 pi s) pt)	of boxes A & B. PERGENT 70 [6] (8)	HMP SM
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COMMENTS			MAXMUM PO	OL DEPTH	continuetera):	
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□ □ Narrow <5m	Ø	Field Residential Park, Fenced Pasture	New Field	20	Open Pasture Row Crop Wining or Construction	
FLOW REGIME (At Time of E Stream Flowing Subsurface flow with isolated p		ck ONLY are box	Moist Channe		oois, no flow (intermittent)	

ADDITIONAL STREAM INFOR	MATION (This bylentiation	Most Also be Completed):		
		Smr#(IfYes Alti	nch Completed QHEI Form)	Stream
DOWNSTREAM DE			Distance from Evalueted Stream	Class 2
Town name			Distance from Evaluated Stream	
D excit name			Distance from Evaluated Streets	
	COPIES OF MAPS, INCLUDE	NG THE ENTIRE WATERSHEE	D AREA. CLEARLY MARK THE SITE LOCATIO	ON .
USGS Quadrangle Name		NRCS Seil Map	Page: NRCS Soil Map Stream Orde	T
County.		Towning/City		
MISICELLANSOUS				
Base Flow Conditions? (Y/N)_	N Date of Just prenip	entire 311-112016	Ouantity	
Photograph Information:				
Devated Turbidity? (Y/N)	L/ Canopy (% open	7.5		
			and attach results) Lab Number	
			Conductivity (µmhas/am)	
is the sampling reach represen	itative of the stream (Y/N)_	If not, please explain		
Additional economics time criptic	on of potution impacts:			
	- 0			
BIOTIC EVALUATI	ON			
Performed? (Y/N):	(If Yes, Record all observable ID number. Include appropri	ons. Voucher tošedions option jate field data sheets from the F	ia). NOTE: all voucher samples must be labeled Primary Headwater Habital Assessment Manual)	i with the site
Fish Observed? (YfN) Frogs or Tadpoles Observed?	Voucher? (Y/N) Sal (Y/N) Voucher? (Y/N)	amanders Observed? (Y/N) Acuatic Macroinvertebr	Voucher? (Y/N) Voucher? (Y/N)	
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			DESCRIPTION	N.
			REACH (This must be completed	
Include Important land	marks and other features o	of Interest for site evaluation	and a narrative description of the stream's	idealon
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FLOW -	Dear De	1. 200 1 SELL 1	Example 3	
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		\$5.44		
		- Activity Committee - S		

port Name: Stream 12	Modified Class II	HH-1:01 0 /30/16 07
		711-7-01-13 37 30 116-01
ADDITIONAL STREAM	INFORMATION (This Information Most Alberton C	ompheteds.
QHEI PERFO	ORMED7 - Tyes To No OHEI Score	(If Yes, Attach Completed OHE) Form)
	AN DES GNATED USE(S)	Ostance from Evaluated Streem
CMH Name		Distance from Evaluated Siteam
EWH Name		Distance from Evaluated Stream
MAPPING A	TYACH COPIES OF MAPS, INCLUDING THE ENTIRE	WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
u SGS Overrangle Nan	ne NRC	CS Sor Map Page NRCS Soli Map Stream Order
County	Township /	Sily
MISCELLAN		9 4
Base Frow Conditions?	(Y/N). N Date of last prestudation 2027	Overly
Photograph Information	1 / Styl applican	
Elevated Turb3dTy? (Y/	N) // Canopy (% open) 3.0	
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	epresentative of the science (VAI) / If not preas	
is the samping result	Absentance of the special (1991) 1 100 been	
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Add tranal comments/d	escription at pollution impacts. Affi	
BIOTIC EV	7	
Factorines Conts. 1	O sunder: Endude appropriate Falls date when	diens aptional 7007E, all reconstruction must be totaled with the site to the Fundam Handaulte Habital Assessment Manualt
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Frogs or Tadooxes Obs	erved? [Y/N] Voucher? (Y/N) Advance Me	grouperfebrates Observed? (Y/N) Vouther? (Y/N)
Contracts Regarding I	Ediogy	
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2015

STREAM GRADIENT ESTIMATE

SITE NAMES OCATION					=
1/1 pol 3/3 /16 - 61 time	NUMBER_08	RIVER BASI	DRAIN	AGE AREA (ml*)	_
LENGTH OF STREAM REACH IN	12 no et LAT	LONG	HIVER CODE	RIVER MILE	_
DATE 20 PLA TON SCORES					-
NOTE: Complete All Items (on This Form - Refer	to "Field Evalu	ation Manual for Ohio's PHWH	Streams" for Instructi)UE
STREAM CHANNEL (THOME / MATURAL CH	MANNET THE	DOVERED RECOVERING R	ECENT OR NO RECOVE	łΥ
MODIFICATIONS: /	. 1.1 h	1	0/-		
MODIFICATIONS: 501-	e disturbance	from Pip	cline		
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SUBSTRATE (Entire de la	natrent of every lyne of	substrate prese	Check ONLY byo predominant subs lax of 8). Final metric score is sum of b	oxes A & B	HE
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1. BUBSTRATE (Estimate) (Max of 40), Add total nur TYPE BLOR SLABS [16 pie	parcent of every type of nber of significant substra PERCENT	substrate presente types found (N	nl. Check ONLY hwo predominant subs	PERCENT P	HEI letric
1. EVBSTRATE (Eximals) (Max of 40). Add total nur. TYPE BLOR SLABS (16 pis BOULDER (>258 mm	parcent of every type of nber of significant substra PERCENT	substrate presente types found (N	ni., Check O <i>NLY</i> <u>two</u> predominant subs lax of 8). Finat metric score is sum <i>a</i> f b SILT [3 pt]	PERCENT P	HEI letric
1. SUBSTRATE (Estimate) (Max of 40), Add total nur TYPE	petcent of every type of ober of significant substruction PERCENT	substrate presentate types found (N	ni, Check O <i>NLY</i> <u>Iwo</u> predominani subs ex of 8). Final metric score is sum of b SILT [3 pt] LEAF PACKWOODY DEBRIS [3 pts]	PERCENT P	HEI letric oints
1. BUDSTRATE (Basimals (Max of 40) Add total nur TYPE BLOR SLABS (16 pis BOUL DER (>258 mm BEDROCK [16 pi]	person of every type of nber of significant substr PERCENT]) [16 pts] ///	substrate preservate types found (N	ni., Check ONLY jwo predominant sub- lax of 8). Final metric score is sum of b BILT [3 pt] LEAP PACKWOODY DEBRIS [3 pts] FINE DETRITUS [3 pts]	PERCENT P	HEI letric

| (Check ONLY one box): | > 1.0 m - 1.5 m (> 3*3*-4*87 [15 pts] | < 1 0 m (< 3*3*) [5 pts] BANK FULL WIDTH (Measured as the average of 3-4 me > 4 0 melers (> 13) [30 pte] > 3.0 m - 4.0 m (> 0 "7" - 13) [25 pte] > 1.5 m - 3.0 m (> 4" 6" - 2" 7") [20 pte] AVERAGE BANKFULL WIOTH COMMENTS This information must also be completed
RIPARIAN ZONE AND FLOODPLAIN QUALITY AND COTE, ever Left (1) and Right (6) as looking downstream?

RIPARIAN WIGHT
FLOOGRA AND CARLITY
(1) For Binnix
(1) For Binnix
(1) Wides 1 cm
(1) Wides 1 Open Pasture, Row Crop Mining or Construction 00 Residential, Park, New Field □ □ Narrow <5m O None ☐ ☐ Fenced Pasture FLOW RECINE (AT time of Evaluation) (Check ONLY one beg)
Stream Flowing
Substracts flowing Substracts flow with isolated poors (Interstition)
COMMENTS.

Stream Flowing Substracts from with solated poors (Interstition)
Substracts from well (Ephanesia) STREAM GRADIENT ESTIMATE
Fial (c 5 1/10/ c) | Fiat to Moderate

PHWH Form Page - 1

Report Name: Stream 14

Modified Class II

ChieFPA Primary Headwater Habitat Evaluation Form
HHEI Score (sum of metrics 1, 2, 3):

	SITE NUMBER 07 RIVER	DASM .	DRAINAGE AREA (m/)	
DATE 03/30/16 50	CHIN 200 H LAT UNDER PLOT / SC & COMMENTS COMMEN	ONS. RIVER	CODE RIVER MILI	
STREAM CHANNEL MODIFICATIONS:			ERING RECENT OR NO F	
1. SUBSTRATE (Esti (Max of 40), Add to	mate percent of every type of substrate p tal number of significant substrate types four	resent, Check ONLY two pre nd (Max of 8), Final metric sc	dominant substrate TYPE boxe ore is sum of boxes A & B.	HHE

1.	SUBSTRATE (Estimate percent of every type or (Max of 40). Add total number of significant substr	of substrate present. Check ONLY two predominant substrate TYPE boxes rate types found (Max of 6). Final metric score is sum of boxes A & B.	HHEL
	BLDR SLABS [16 pis] BOULDER (>266 mm) [16 pis] BEDROCK [16 pis] BEDROCK [16 pis] S S S S S S S S S		Metric Points Bubstrate Max = 40
SCOR	Total of Percentages of Bldr Stebs, Boulder, Cobble, Bedrock 75 E OF TWO MOST PREDOMINATE SUBSTRATE T	(A) TOTAL NUMBER OF BUBBITRATE TYPES:	A+B
2 008	Maximum Pool Depth (Measure the maximum, evaluation Avoid prince pools from road outverts > 30 sent Imaters (20 pts) > 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [75 pts]	> 5 cm - 10 cm [15 pts] > 5 cm 5 pts] No WATER OF MOIST CHANNEL [0 pts]	Pool Depth
	COMMENT	MAXIMUM POOL DEPTH (CANADA)	1
300	BANK FULL WIDTH (Measured as the everage > 4.0 meters (> 13) [30 pts] > 3.0 m - 4.0 m (> 0' 7' - 13) [25 pts] > 1.5 m - 3.0 m (> 4' 8' - 8' 7') [20 pts] COMMENTS	of 3-4 measurements) (Check OVILY One box):	Bankfull Width

	RIPARIAN ZONE AND FLOODE	LAIN QUA	Information must also be co DTY WNOTE: River Let. LAIN QUALITY	emplailed (i.) and fight (F) as i	coking countriesmit
L R	(Per Bank)	55	(Most Pradominant per Ban Mature Forest, Welland	00	Conservation Tillage
00	Moderale 5-10m	3 8	immature Forest, Shrut; or o		Urban or Industrial
	Narrow <5m	RE	Residentie , Pack, New Fick		Open Pesture, Row Crop
	None COMMENTS	00	Fenced Pasture	00	Mining or Construction
A	FLOW REGIME (At Time of Eve Stream Flowing Subsurface flow with isolated poor		☐ Mats	si Chennel, Isolated po channel, no water (Ep	ools, no flow (Intermittent) obternerel)
8	SINUOSITY (Aurober of bender fione	1.0 1.5	ft) of channel) (Check ON 20 DL 25	/LY one horr).	30
STRE	AM GRADIENT ESTIMATE	☐ Mod	erate (1995) Mo	oderate to Severe	Severe positions

	ADDITIONAL STREAM INFORMATION (This information Must Also be Completed):	
	OHEI PERFORMED? - 17 Yes 17 No OHEI Score (II Yes, Alach Completed OHEI Form)	
	COWNSTREAM DESIGNATED USEISI	
	☐ WWH Name	
	☐ CWH Name Distance from Evaluated Stream	
	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE I	OCATIO
	USGG OUT SHOP FIRE	
	// /	au Otpet
	144041.47	
	MISCELLANEOUS Base Flow Conditions? (YN) Date of test precipition 3/51/16 Country United to 1	
	Photograph Information	_
	Elevated Turbidnity? (Y/N) Canopy (% onen) 202	
	Were samples collected for water chemistry? (Y/N) (Note lab sample nollowed and witach results) Lab Number	
	Field Measures Temp (*C) Dissolved Chygen (mg/l) pH (S.U.) Conductivity (jumhos/em)	
	is the sampling reach representative of the stream (Y/N) / If not please explain	
	Additional comments description of poliution imports	
	10040/15	
	BIOTIC EVALUATION	
	Polarmod (YN). // If Yes, Reserval is devivering, Voyables selections section 1977; all vouver semiles exist be Concrete include appropriate faint data should have no Primary shoulded (Sold a composed to	
	Fish Observed? (YA) Vouche? (YA) Summer County (YA) Vouche? (YA) Fross of Tadpoles Observed? (YA) Vouche? (YA)	cvan_
	Fish Observed? (Vin) Voucher? (Vin) Educated Systematic Conserved? (Vin) Voucher? (Vin) Advanced Systematic Conserved? (Vin) Advanced? (Vin) A	cynn_
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fish Observed? (Vith. Account? (Vith. Educations Conserved? (Vith. Vocation? (Vith. Fishers and Table) of The Conserved (Vith. Account Management (Vith. Account Management (Vith. Account Vith. Account Management (Vith. Account Vith. Account Vith. Account (Vith. Account Vith. Accoun	reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
	Fig. 20 To 2004'S Observed? (VA) Abundan? (VA) Abundan? (VA) Abundan (reted):
	Fig. 20 Server (17h) Voucher (17h) Solumenters Covered (17h) Voucher (17	reted):
12	Fig. 20 To 2004'S Observed? (VA) Abundan? (VA) Abundan? (VA) Abundan (reted):
	Fig. 20 To 2004'S Observed? (VA) Abundan? (VA) Abundan? (VA) Abundan (reted):
	Fig. 20 To 2004'S Observed? (VA) Abundan? (VA) Abundan? (VA) Abundan (reted):
	Fig. 20 To 2004'S Observed? (VA) Abundan? (VA) Abundan? (VA) Abundan (reted):

	Modified Class II	JH ROL 213018
ADDITIONAL STEERS	NEORNATION (This information	North Mark Agent No. Company and I
		El Scare (If Yes, Atlach Completed QHEI Form)
	EAM DES GNATED USE(S)	
		Distance from Evaluated Stream
D EWH Name		Distance from Evaluated Stream Distance from Evaluated Stream
		JOING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
		NRCS Soil Map Page NRCS Soil Map Stream Cruer
County		Township / Chy
MIRCELLAN	EOUS	<u></u>
Base Flow Conditions	O'ALL N Date of last one	Openior 03/28/16 Oursey 2
2000 000 000 000	2 65 1 11	astron - Provistium
Photograph information	E Louisia File	GENERAL TESTABOLISM
Elevated Turbidity? (Ya	Ni: N Canopy (% op	om) <u>25</u>
		(Nate lab sample no or id and attach results) Lab Number
Field Measures Te	mp (°C) Distolved Oxyg	on (mg/l) pH (S U) Conductivity (µmhos/cm)
Is the semple of reach r	epresentation of the stream (Y/N)	/ Prot. pirase explirit
		miominoscens
4.1		rhi
Additional commentate	escription of pollution impacts. 1	1/A
BIOTIC EV	SLUATION	
_	7	al a Market and Alexander and
BIOTIC EVI	(If Yes, Record all observa	ations. Voucher collections optional. NOTE! all voucher samples must be labaled with this in ophate field data sheets from the Pinnary Hoodwider Habital Assessment Manusi)
Performed? (Y/N)	(II Yes, Record all observa	opriate field data sheets from the Primary Hoodwater Habital Assessment Manual)
Performed? (Y/N)	(II Yes, Record all observa	opriate field data sheets from the Primary Hoodwater Habital Assessment Manual)
Performed? (Y/N). Fish Observed? (Y/N). Frogs or Tadpoles Observed?	(If Yes, Record all observation number, include approved Vouchar? (Y/N) Served? (Y/N) Voucher? (Y/N)	
Performed? (Y/N)	(If Yes, Record all observation number, include approved Vouchar? (Y/N) Served? (Y/N) Voucher? (Y/N)	opriate field data sheets from the Primary Hoodwater Habital Assessment Manual)
Performed? (Y/N) Fish Observed? (Y/N). Frogs or Tadpoles Obs	(If Yes, Record all observation number, include approved Vouchar? (Y/N) Served? (Y/N) Voucher? (Y/N)	opriate field data sheets from the Primary Hoodwater Habital Assessment Manual)
Performed? (Y/N) Fish Observed? (Y/N). Frogs or Tadpoles Obs	(If Yes, Record all observation number, include approved Vouchar? (Y/N) Served? (Y/N) Voucher? (Y/N)	opriate field data sheets from the Primary Hoodwater Habital Assessment Manual)
Performed? (Y/N). Fish Observed? (Y/N). Frogs of Tadpoles Observed. Comments Regulating	(if Yes, Record all observed in Downborn (resulte appro Voucher? (YR) S Voucher? (YR) Voucher? (YR)	opotete field data afheis forn fin Pinnary Hoodwider Hibital Assessment Meinwall Salismanders Observed? (YIN) Voucher? (YIN) Voucher? (YIN) Voucher? (YIN) Voucher? (YIN) Voucher? (YIN)
Performed? (Y/N) Fish Observed? (Y/N) Frogs or Tadpoles Obs Comments Regulated	(I) Yes, Record all observed IID number. Include uppro Upprovided Proceedings of the Proc	potate field dals afreed from the Pinnary Hoodwider Hibital Assessment Weincel) selfemenders Observed? (YN)
Performed? (Y/N)	(I) Yes, Record all observed IID number. Include uppro Upprovided Proceedings of the Proc	opotete field data afheis forn fin Pinnary Hoodwider Hibital Assessment Meinwall Salismanders Observed? (YIN) Voucher? (YIN) Voucher? (YIN) Voucher? (YIN) Voucher? (YIN) Voucher? (YIN)
Performed? (Y/N) Fish Observed? (Y/N) Frogs or Tadpoles Obs Comments Regulated	(I) Yes, Record all observed IID number. Include uppro Upprovided Proceedings of the Proc	potate field dals afreed from the Pinnary Hoodwider Hibital Assessment Weincel) selfemenders Observed? (YN)
Performed? (Y/N)	(I) Yes, Record all observed IID number. Include uppro Upprovided Proceedings of the Proc	spotes fedd data dreate from the Pinnary Moodwafer Habital Assessment Menual) Selfsmanders Observed? (YN) Voucher? (YN) Aquabe Mecromystebrales Observed? (YN) Voucher? (YN) SCRIPTION OF STREAM REACH (This <u>must</u> be completed); and betweet for site evaluation and a nutrative description of the shasen's location (1-2)
Performed? (Y/N)	(I) Yes, Record all observed IID number. Include uppro Upprovided Proceedings of the Proc	potate field dals afriest from the Dhimary Moodwider Hebrial Assessment Menuel) sildenanders Observed? (YN)

Report Name: Stream 16 Class III

ACDITIONAL STREAM INFORMATION (This Information Mays Also be Completed).

ENGI MATE, NOT STRE	E: Complete All (tems On This Form	AT. LONG R CONVENTS AND	DRAINAGE AREA (mil [*]) IVER CODE RIVER MILE 1 Ohlo's PHWH Streams" for Instruction COVERING RECENT OR NO RECOVERY FLOW
1791 000 000 000 000 000 000 000 000 000 0	(Max of 40) Add total number of significant DLDR 0LADB [18 pts]	type of substirate present, Check ONL Y is usubsfield types found (Max of 8). Final met KCEENT	HP PERCENT
00	Maximum Pool Depth (Measure the maximum). Audid plunge pools from road > 30 ceolimeters (20 pts) > 225 - 30 cm (10 pts) 10 - 22 5 cm (10 pts) COMMENTS	con equipos	ty evaluation reach at the time of Y one box; s pts)
000	BANK FULL WIDTH (Measured as the a > 4.0 meters (> 13) [30 pts] > 3.0 m · 4.0 m (> 6'.7" - 13') [25 pts] > 1.5 m · -2.0 m (> 4'.8" - 0'.7') [20 pts] COMMENTS	> 1.0 m - 1.5 m (= 1.0 m (s 7 3) [
	######################################	This information must also be compilate Quality October. Rever Left (List FLOOPEAN QUALITY) L. R. Most Prodominant per Brak's Wature Forest, Walland Of Field Great Rever Left (List Fundament Per Brak's) Great Rever Left (List Fundament Per Brak's) Field Fenced Pasture	ited it Right (R) se tooking doesntream it: R Conservation Tillage Urben or Industrial Open Pesture, Row Cree Mining or Construction
	FLOW REGIME (AI Time of Event Stream Flowing Dubustace flow with with adopted COMMENTS	Mosal Chi Dry chan	nnnel, isolated pools, no flow (Intermittent) iel, no wate: (Epitemeral)
	SINUOSITY (Number of bends pe	r 61 m (206 ft) of channel) (Check ONLY of 1 0	30 30

	DOWNSTREAM DESIGNATED USE(S)
	☐ WWW Name Distance from Evaluated Stream ☐ CV/H Name 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
	USSS God Angle Pippe NRCS Soi May System Order NRCS Soi May System Order Charter Particle Tourney (Str.)
	MISCELLANEOUS
	Base Flow Conditions 7 (VA) 5 Date of last preopletion 5/2/1/10 Quantity 10/2/3/11
	Photograph information
	Elevated Turked by 19417 Canopy (% open) 30
	Were samples collected to water disnesting (Yitt): W (Note lab sample no or in and attach results). Lab Number
	Field Measures Temp (*C) Dissolved Cryyen (mglst pH (3 U) Conductivity (umhos/cmb) Is the sampling reach representative of time stream (*7/6) If not jiveser but am
	is the sampling reach representative of the stream (YNs)/ II not preuse expan
	Additional natural to Generation of policies Reports
	BIQTIC EVALUATION
	Performed 2 (*/ik)
	Fina Observed (1781) Voucher 1790 Seminar ders Conerved (1781) Voucher 1791 Voucher 1791 Frog or Telepine Observed (1781) Voucher 1791 Voucher
	Flog) or Tregues Observed (YRI) // Volume 1 (YRI) Agust Memorian Representative Observed (YRI) // Volume 1 (YRI)
	377771717171717171717171717171717171717
	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 local
4-1	263 EV 1 July 263
	FLOW
	20 W W
	_ 41
	The state of the s
	/2007 fe.z.
1 Nam	e: Stream 16 Class III
t Nam	e: Stream 16 Class III
i Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed);
t Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed);
t Nam	ADDITIONAL STREAM INFORMATION (This information Must Also be Completed): QHEI PERFORMED TO TYPE TO GHE! Score
i Nam	ADDITIONAL STREAM INFORMATION (This information Must Also be Completed): OHEI PERFORMED 2 795 No. OHEI Score 111745, Attach Completed Quiel Formy DOWNISTREAM DEDIGNATED USE(6) Distance from: Explanted Stream
t Nam	ADDITIONAL STREAM INFORMATION [This information Must Also be Completed]: OHEI PERFORMED TO You Too OHEI Score INTYES Allsoh Completed OHEI Form! DOWNSTREAM DESIGNATED USE(8) OWAH Intere. OHEI DESIGNATED USE(8) DAMINE OHEI SERVICE STREAM DESIGNATION STREAM DES
t Nam	ADDITIONAL STREAM INFORMATION [This information Must Also be Compiled]: OHEI PERFORMED? TYPES WE OHEI Score INTYES Allsoh Compiled OHEI Form! DAMINGT REAM DEGIGNATED USE(6) MAPPINGT ATTACH COPIES OF MAPS, INCLUDING THE SATIRE WATERSHED AREA CLEARLY MARK THE SITE LOCATION
t Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Compileted): QHEI PERFORMED)
i Nam	ADDITIONAL STREAM INFORMATION [This Information Must Also be Completed]: OHEI PERFORMED? To you have OHEI Scale INTYEX Allach Completed OHEI Forms DOMINISTREAM DESIGNATED USE(6) DAMAINE OHEI SCALE OHEI STREAM ON Hame OHEI STREAM DAMAINE OHEI STREAM DAMAINE FOR EVALUATED STREAM MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE STREET WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
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l Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): OHE PERFORMED: TYPE TWO CHESTSCOPE (III YES, Allech Completed GHE) Form) OWN STREAM DEDIGNATED LOCK(S) DAVINGE OF EVALUATION DAVINGE OF EVALUATION DAVINGE ATTACH COPIES OF MAPS, INCLUDING THE STATES WATERSHED AREA CLEARLY MARK THE SITE LOCATION MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE STATES WATERSHED AREA CLEARLY MARK THE SITE LOCATION MISCELLANEOUS Base Flow Conditions? (Yell) Date of lad prespitation Ownerby (Mark) Clearly Mark Clearly Mark Clearly Mark (Into this sention of or all to other results) Lab Naminar Field (Abeasure). Temp (Fig. Clearly Mark The STATE) Site sampling reach representative of the Stream (Yell) Is the sampling reach representative of the Stream (Yell) MICHIGANIC EVALUATION Performed? (YM) (If Yes, Record all coloured and presentations of the Stream (Yell) Daving (If Yes, Record all coloured looks operand) NOTE: all reacher samples must be labeled with Daving included appropriate field data sheets from the fiftersy Head-order Hoscial Assessment Marked ID and a septembril Marked ID and a s
t Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): OHE PERFORMED: TYPE TWO CHESTSCOPE (III YES, Allech Completed GHE) Form) OWN STREAM DEDIGNATED LOCK(S) DAVINGE OF EVALUATION DAVINGE OF EVALUATION DAVINGE ATTACH COPIES OF MAPS, INCLUDING THE STATES WATERSHED AREA CLEARLY MARK THE SITE LOCATION MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE STATES WATERSHED AREA CLEARLY MARK THE SITE LOCATION MISCELLANEOUS Base Flow Conditions? (Yell) Date of lad prespitation Ownerby (Mark) Clearly Mark Clearly Mark Clearly Mark (Into this sention of or all to other results) Lab Naminar Field (Abeasure). Temp (Fig. Clearly Mark The STATE) Site sampling reach representative of the Stream (Yell) Is the sampling reach representative of the Stream (Yell) MICHIGANIC EVALUATION Performed? (YM) (If Yes, Record all coloured and presentations of the Stream (Yell) Daving (If Yes, Record all coloured looks operand) NOTE: all reacher samples must be labeled with Daving included appropriate field data sheets from the fiftersy Head-order Hoscial Assessment Marked ID and a septembril Marked ID and a s
I Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Compiled style OHEI PERFORMED)
I Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): OHE PERFORMED: TYPE TWO CHESTSCOPE (III YES, Allech Completed GHE) Form) OWN STREAM DEDIGNATED LOCK(S) DAVINGE OF EVALUATION DAVINGE OF EVALUATION DAVINGE ATTACH COPIES OF MAPS, INCLUDING THE STATES WATERSHED AREA CLEARLY MARK THE SITE LOCATION MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE STATES WATERSHED AREA CLEARLY MARK THE SITE LOCATION MISCELLANEOUS Base Flow Conditions? (Yell) Date of lad prespitation Ownerby (Mark) Clearly Mark Clearly Mark Clearly Mark (Into this sention of or all to other results) Lab Naminar Field (Abeasure). Temp (Fig. Clearly Mark The STATE) Site sampling reach representative of the Stream (Yell) Is the sampling reach representative of the Stream (Yell) MICHIGANIC EVALUATION Performed? (YM) (If Yes, Record all coloured and presentations of the Stream (Yell) Daving (If Yes, Record all coloured looks operand) NOTE: all reacher samples must be labeled with Daving included appropriate field data sheets from the fiftersy Head-order Hoscial Assessment Marked ID and a septembril Marked ID and a s
I Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Compiled style OHEI PERFORMED)
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I Nam	ADDITIONAL STREAM INFORMATION (This Information Must Also be Compiled 9): OHEI PERFORMED

SITE HAMEROCATION SITE NUMBER RIVER BASIN DRAINAGE AREA (mi²) LENGTH OF STREAM REACHES 2006 LAT LONG MAN DATE 'SO AN 2016 SOORER AND 1216 COMMENTS STREAM NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Onlo's PHWH Streams" for Instructions STREAM CHANNEL TRANSPORT CHANNEL TRECOVERED TRECOVERING TRECED TO NO RECOVERY MODIFICATIONS: SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE baces (Max of 40), Add total number of significant substrate types (ound (Mex of 6), Final metric score is sum of baces A & B SAND (<2 mm) [6 pls] 20 W Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock 20 SCONE OF TWO MOST PREDOMINATE SUBSTRATE TYPES (B)
TOTAL NUMBER OF SUBSTRATE TYPES: A + B Maximum Pool Depth (Measure the measure pool depth within the 61 meter (2001) we also reach at the line of Now Water Of Moter Channer 19 pm 30 MAXIMUM POOL DEPTH Bankfull Width COMMENTS___ _ AVERAGE BANKFULL WIDTH (meters) RIPARIAN WIDTH
(Per Bank)
Wide >10m
Moderate 5-10m Open Pasture, Row
Crop
Mining or Construction ☐ Residential, Park, New Field □ □ Narrow <5m ☐☐ Fenced Pasture FLOW REGIME (All Time of Evaluation) (Check ONL's one box)
Stream Rivering
Channel, isolated pools, no llow (Mismilland).
Ony channel, isolated pools, no llow (Mismilland).
Ony channel, no water (Ephamores) | SINUOSITY (Number of bends per 61 m (200 t) of chemical (Sinua OMLY one box) | None | 1.0 | 2.0 | 2.0 | 2.0 | ☐ Moderato to Severe

Original Primary Headwater Habitat Evaluation Form

ph x 143/20/2

HHEI Score (sum of metrics 1, 2, 3):

ITE NAMELOCATION	O'1_ RIVER BASINDRAINDRAIN	IAGE AREA (ml²)
STE NUMBER	OF LONG RIVER CODE	RIVER MILE
DATE 30 MAY 2016 STORES MI	THE COMMENTS I PROCEED	
NOTE: Complete All Items On This	Form - Refer to "Field Evaluation Manual for Ohlo's PHWH	Streams" for instruction
	NATURAL CHANNEL TRECOVERED RECOVERING OR	
MIDDIFICATIONS. PITOT	ests from porter construction	OR THE
SUBSTRATE (Estimate percent o	favory type of substrate present. Check ONLY two predominant sub	sinte TYPE boses
	princent substrate types found (Mex of II). Final matric score is sum of t PERCENT TYPE	DESCENT Me
TYPE BLOR SLASS [16 pls]	SILT [3 pt]	302 PO
BEDROCK (16ad)	LEAF PACKWOODY DEBRIS [3 pts]	8ut
BEDROCK [16p4] COMBLE (85-256 mm) [12 pts]	CLAY & HARDPAN ID PU	Ma
GRAVEL (2-64 mm) [8 pls]	20 MUCK[0 pts]	
☑ SAND (<2 mm) [8 pts]	10 ARTIFICIAL [3 pls]	
Total of Percentages of	(2 (A) 9	(B) // A
Bior Slabs, Boulder, Cobble, Bedro	UBBYRATE TYPES: TOTAL NUMBER OF SUBBTRA	
		h at the time of Pop
 Maximum Pool Depth (Westure 6 evaluation, Avoid stange pools from 	ne maximum poet deprin within the 61 meter (200 ft) evaluation read n road culverts or stamm water poets (Check ONLY one box)	Ma
> 50 certimeters [20 pts] > 225 - 30 cm [30 pts]	o road culver's or slamm water even. (Check OWLY one box) > 5 cm - 10 cm (15 pts) - 5 cm 15 pts] - 5 cm 15 pts]	
D = 10 - 22.6 cm (75 pts)		
COMMENTS	MAXIMUM POOL DEPTHICS	A CONTRACTOR OF THE PARTY OF TH
100000000000000000000000000000000000000		
5 4 0 melon (5 120 Filt pip)	> 1.0 m - 1.5 m (> 3' 3' - 4' 8") [15 pts	i w
>30m - 40m (>8'7'-13') [25 pts >15m - 3.0m (>4'8"-8'7') [20 pts		
		160-
COMMENT2 > 12m - 2.0m (> 4.8 - 8.1)[50 br	AVERAGE BANKFULL WIDT	H-(merera)
соименть	AVERAGE BANKFULL WIDT	H-(militra)
RIPARIAN ZONE AND FLO	AVERAGE BANKFULL WIDT This information must also be completed DODPLAIN QUALITY & DHOTE: River Left (L) and Right (R) as loo	H-(militra)
RIPARIAN ZONE AND FLO	AVERADE BANKFULL WIDT This information must also be completed DODPLAIN QUALITY \$NOTE: River Left (L) and Right (R) as loo FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R	king downstream \$
RIPARIAN ZONE AND FLO RIPARIAN MDTH I. R. (Per Bank) Wide > 10m	AVERAGE BANKFULL WIDT This information must also be completed DODPLAIN QUALITY LR (Most Predominant per Bank) LR Meture Forces Welland LR LR LR LR LR LR LR LR LR L	king downstream &
RIPARIAN ZONE AND FLO	This information must also be completed DOPPLAIN QUALITY L R (Most Predominant per Benk) L R Meture Fored, Welland Immailure Fored, Shrub or Old Field	king downstream & Conservation Tillage Urben or Industrial
RIPARIAN ZONE AND FLO RIPARIAN MDTH I. R. (Per Bank) Wide > 10m	AVERADE BANKFULL WIDT This information <u>must</u> also be completed DODPLAIN QUALITY ShOTE: Rever Left (L) and Right (R) as too FOODPLAIN QUALITY L R (Mass Predominant per Bank) Missing Foods (Network Control of Predominant Per Bank) R (Mass Predominant Per Bank) R (P) R	king downstream &
RIPARIAN ZONE AND FLA RIPARIAN MODTH P. (Fer Baint) Wide > 10m Moderale 5-10m Narrow < sim None	This information must also be completed DODELAN GOLDALTY 4-NOTE: River Left (L) and Right (R) es too FLOODY LANK GOLDALTY (Most Predominant per Bank) Redicure Foorst, Welstand Period Redicular Foorst, Welstand Redicure Foorst, New Fields	king downstream of Conservation Tillage Urban or Industrial Open Pasture, Row
RIPARIAN ZONE AND PLC RIPARIAN MOTH (Per Balti) (Vide = 10m (Native < 5 = 10m Native < 5 m	This information must also be completed DODELAN GOLDALTY 4-NOTE: River Left (L) and Right (R) es too FLOODY LANK GOLDALTY (Most Predominant per Bank) Redicure Foorst, Welstand Period Redicular Foorst, Welstand Redicure Foorst, New Fields	king downstream Conservation Tillage Urben or Industrial Dpen Pasture, Row Crop
RIPARIAN ZONE AND PLC RIPARIAN MODH R (Per Bank) Wide > 10m Node table 5-10m None COMMENTS FLOW REGIME (Al Time C	This information must also be completed DOPLAIN QUALITY ShOTE: Rever Left (L) and Right (R) as too FOODPLAIN QUALITY L R (Most Predominant per Benk) L R (Most Predominant per Benk)	king downstream of Conservation Trillage Johan or Industrial Open Pasture, Row Top Wining of Construction
RIPARIAN ZONE AND FLC RIPARIAN MODTH R (Per Bant) Wide > Ion Moderate S-10m None CONNECTE FLOW REGIME (At Time of Stream Flowing Stream flowing	This information must also be completed DODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Podermant per Bank) I mailure forest, Shrub or Old I mealure forest, Shrub or Old Residential, Park, New Field Fenced Peature (Fevaluation) Moist Channel, isolated pool Moist Channel, isolated pool	king downstream & Conservation Trilage Lithen or industrial Open Pasture, Row 2009 Anning or Construction
RIPARIAN ZONE AND FL RIPARIAN MODIN R (Per Bank) R (Per Bank) Moderate 5-10m Moderate 5-10m Narrow <5m None CONMENTS FLOW REGIME (Al Time of	This information must also be completed DODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Podermant per Bank) I mailure forest, Shrub or Old I mealure forest, Shrub or Old Residential, Park, New Field Fenced Peature (Fevaluation) Moist Channel, isolated pool Moist Channel, isolated pool	king downstream & Conservation Trilage Lithen or industrial Open Pasture, Row 2009 Anning or Construction
RIPARIAN ZONE AND FLE RIPARIAN MOTH (Per Bam) (Wide a lon None COMMENTS FLOW REGIME (Al Time of Stephen Flowing) Stephen Flowing STRUMBERTS FROM COMMENTS STRUMBERTS STRUMBERTS STRUMBERTS STRUMBERTS STRUMBERTS STRUMBERTS	This information must also be completed DOPLAIN QUALITY ONOTE: River Left (L) and Right (R) as too FLOODELAIN QUALITY LEFT (Moss Prodominant per Bank) R (Moss Prodominant per Bank)	king downstream of Conservation Tillage Litter or industrial Open Pasture. Row Long Ambring of Construction: s, no flow (Intermistent) mentals
RIPARIAN ZONE AND FLA RIPARIAN WODTH R (Per Bank) Wide > 10m Moderale 5-10m Moderale 5-10m None COMMENTS FLOW REGIME (Al Time of Security Comments of Securi	AVERACE BANKFULL WIDT This information must also be completed DODPLAIN QUALITY L R (Most Predominant per Bank) L P Meture Forest, Welland I membure Forest, Shrub or Old Residential, Park, New Field Residential, Park, New Field Residential, Park, New Field Residential, Park, New Field Glycola (Viernial) Moist Channal, isolated pool bry channel, no voter (Eph	king downstream & Conservation Trilage Lithen or industrial Open Pasture, Row 2009 Anning or Construction
RIPARIAN ZONE AND FL RIPARIAN MODIN R (Per Bash) Moderate 5-10m Moderate 5-10m Moderate 5-10m Narrow <5m None CONMENTIG FLOW REGISTER (All Time & Stream Flowing Substantiace flow with signals CONMENTS STRUCK STY (Number of last None None	This information must also be completed DODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Pedominant per Bank) I R (Most Channel, Perk, New Field I R (Most Channel, Isolated pool Ory channel, no water (Eph Most Channel, isolated pool Ory channel, no water (Eph 13 2 2 5	king downstream & Conservation Tillage Lithen or industrial Dopen Pasture, Row Top Whiting or Construction s, no flow (Intermittent) Time(Int)
RIPARIAN ZONE AND FLA RIPARIAN WODTH R (Per Bank) Wide > 10m Moderale 5-10m Moderale 5-10m None COMMENTS FLOW REGIME (Al Time of Security Comments of Securi	This information must also be completed ANOTE: Rever Left (1) and Right (R) as loo FLOCOPIAIN QUAITY L R (Most Predermant per Bank) R (Most Predermant	king downstream & Conservation Tiliage Urban or industrial Open Pasture, Row Crop Crop Single Construction Single Constructio

Report Name: Stream 18 Modified Class II

SH407-033046-03 ChiaEPA Primary Headwater Habitat Evaluation Form
HHEI Score (sum of matrics 1, 2, 3):

DATE COMMENTS COMMENTS NOTE: Complete All Items On This Form - Refer to "Field Ex	
STREAM CHANNEL THOME THAT HAVE CHANNEL THE MODIFICATIONS: Propoling ROW	RECOVERED RECOVERING RECENT OR NO RECOVERY
SUBSTRATE (Estinale percent of a very type of aubstrate pr (Max of 40) Add tolar number of significant subsidire types from (Max of 40) Add tolar number of significant subsidire types from (Max of 40) Add tolar number of significant subsidire types from (Max of 40) Add tolar number of significant subsidies and subsi	Sent. Check DAL YING precominate substate TYPE boxes (Max of a) Frest marks come in sum of boxes A B. SILT (a) Pg. EAP PACK/MOODY DEBRIS (a) pla) FINE DETRITUS (a) pla) MUCK (b) pla) ARTIFICIAL BURBER OF SUBSTRATE TYPES:
Nazimum Pool Death (Abssure the maximum pool death white new value)	trin the 61 meter (200 ft) evaluation reach at the time of Pool Depress (Check CNLY method)
3. BANK FULL WIDTH (Measured as the average of 3-4 measur > 4.0 meters (* 13) (30 pts) > 3.0 m - 4.0 m (c) * (* 13) (15) sts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8') [15 pts] Width

	RIPARIAN ZONE AND FLORIPARIAN WIDTH	DODPLAIN QUAL	nformation <u>must</u> also be a ITY \$NOTE: River Let LAIN QUALITY		s looking downstresm\$
L R	(Per Bank)	Ď.	(Most Predominant per Bu Mature Forest, Welland		Conservation Tillage
	Moderate 5-10m	(P) (R)	Immature Forest, Shrub or Field		Urban or industrial
	Narrow <5m	27 27	Residential, Park, New Fig	nd 00	Open Pasture, Row Crop
	None		Fenced Pasture	00	Mining or Construction
	FLOW REGIME (Al Time of Stream Flowing Subsurface flow with Isolate COMMENTS		☐ Mo	ist Channel, isolated	pools, no flow (intermittent) Ephemical)
8	SINUOSITY (Number of be None 0.5	nds per 61 m (200 1.0 1.5	Oft) of channel (Check Of 2.0 2.5	NLY one box):	3.0 >3
STRE let o s a	AM GRADIENT ESTIMATE 126.1) ☐ Fiel to Modere	le 🔲 Mode	rale (2 t/16c t.) 🗵 M	oderale to Severe	☐ Sever# µ to 1

	FORMED? - TYES 1	No QHE Boore _	Il Yas	Attach Completed QHEI	Form:
	IEAM DESIGNATED US				
J www warre		2(0)		Distance from Ev	alualed Stream
CV/H Name				Distance from Eva	lupled Stream
EWH Name				Exstance from Eve	lualed Stream
MAPPING	ATTACH COPIES OF MA	APS, INCLUDING TH	E <u>ENTIRE</u> WATERS	HED AREA. GLEARLY M	ARK THE SITE LOCATION
USGS Guedangle H	Sine		NRCS Sol M	tap PageNRC	Soli Map Stream Order
Courts Harles	Eq.	Te	ownship / City:		
MISCELLA					
		of lock production	2/27/16	Quantity	
			7	0001111)	
Fbotograph internal			Ce)		
	rac car	nopy (VA obelit)			
Were samples collect	and for writer chemistry?	com Alaco	e tao semple no er	a and altech results) Le	s Warber
Field Measures	remp (*C) Draso	olved Oxygen (mgñ)	pH (Si	J j Conductivity	(µmhos/cm)
is the sampling reach	representative of the str	ream (Y/N) 🗵 II	not piesse an le o	0	
	Adesa ration of pollution				
Performed? (Y/N) _	ID number. In	ciude appropriate field	datu sheeks Foro II	he Primary Headwaler Hab	
Fish Observed? (Y/N Frogs or Teapoles O) Voucher? (Y/I bserved? (Y/N) Vo	N)Salamendo oucher? (Y/N) A	trs Observed? (Y/N Aqueto Mecrainvad	l) Voucher? (Y/N) lebrates Observed? (Y/N)	Voucter? (Y/NI
Comments Regardin	g Blology				
DRAV	UNG AND NARRAT	TIVE DESCRIPT	ION OF STREAM	AM REACH (This m	ust be completed):
					iption of the stream's location
	V	15	2. 2.		
	- 2	Ole		deriv	
		,	(1		
FLOW -	-07	100			
FLOW -	-01/		3	-7	
FLOW-	19	. 1	3	-7	
FLOW -	14	. *	3/6	7	

ADDITIONAL STREAM INFORMATION (This information Must Also be Completed):
QHEI PERFORMED? - Til Yes AND QHEI Score(If Yes, Allach Completed DHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name Distance from Evaluated Stream
Distance from Evaluated Stream
Ordance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATER SHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadring's NameNRCS Sol Map Page NRCS Sol Mep Stream Order
CountyTownhp/City
MISCELLANEOUS
Base Flow Conditions? (YAN) N Date of last precipitation 3/7 1/16 Quantity 7
Photograph Information: 2 Photos Up shown + Annalysis
Elevaled Turbidity? (YNI) // Gercoy (% open) //
Were samples collected for water charmotry? (YAN). N (these jub sample no. or id. and allust returns) Late fauroset
Were semples collected in which was a seminary of which was a seminary of the
is the compling reach representative of the speam (FAG) 4 Hood, please explain.
Aggl cold comment/Mescription of courses impeds N//
BIOTIC EVALUATION
Performed? (YA); [II Yas, Record a) doservations. Voucher collections optional. NOTE: all voucher samples must be labeled with the Innumber. Include appropriate field data sheets from the Primary Headwater Hadrigt Assessment Marual).
Fish Observed? (Y/N)
Commercial Regarding Biology
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
budges important landmarks, and either features of interest for site evaluation and a numbble description of the stream's tocation
The Contract Chairm
M Welland Am meny (1) when

Max of 40), Add lotal number of significant substriat types (outer falls as the state of 5), Final marties cross is sum of boxes A & B PERCENT YEE SLDR SLARES [18 pits] PERCENT YEE Y	LENGT DATE_	HOF S	33016-02 BITE NUN TREAM REACH (B)! /30/16 BOORER	CIZAG	2.	RIVER BASII	Property	ER CODE		
BUBSTRATE (Estimale parcent of every type of substrate present, Check OM: View prodominant substrate TYPE boxes (Max of 40), Add total number of significant substrate types found (Max of 8). Fish metric sector is sum of boxes A 8. B PERCENT TYPE SUDS (Max of 40), Add total number of significant substrate types found (Max of 8). Fish metric sector is sum of boxes A 8. B PERCENT TYPE SUDS (Max of 40), Add total number of significant substrate types of 1.2 BUT (1.2 bit)	STRE	AM CH	ANNEL DNO	NE/NATUR	AL CHA	WNEL REC				
SOCRECATE COMMENTS This Information must also be completed RIPARIAN ZONE AND FLOODPLAN QUALITY RIPARIAN ZONE AND FLOODP	0000	(Maxi	ITRATE (Estimble perco of 40). Add Iodal number of LDR SLABS [16 pts] DULLDER (>255 mm) [16 pts EDROCK [16 pt] DBBLE (65-256 mm) [12 pts] RAVEL (2-64 mm) [8 pts]	per	ype of a substration	aubstrate preser	EX OF 81 Final metric SET [3 pt] EAF PACKWOODY IME DETRITUS [3] SLAY OF HARDPAN SUCK [0 pts]	DEBRID [3 p	of boxes A & B PERCENT	HH Mei Poi Subs
BANK FULL WIDTH (Measured as the average of 3-4 measurements) One dever 0 15) [Dip Int) > 3 on - 4 on dever 0 15) [Dip Int) > 3 on - 4 on dever 0 15) [Dip Int) > 3 on - 4 on (-2.7-1.6) [15 pix) > 3 on - 4 on (-2.7-1.6) [15 pix) 3 on - 2 on (-2.7-1.6) [15 pix) 3 on - 2 on (-2.7-1.6) [15 pix) 4 on (-2.7-1.6) [15 pix) 5 on - 3 on (-2.7-1.6) [15 pix) 5 on - 3 on (-2.7-1.6) [15 pix) 6 on (-2.7-1.6) [15 pix) 7 on (-2.7-1.6) [15 pix) 7 on (-2.7-1.6) [15 pix) 8 on (-2.7-1.6) [15 pix) 10 on (-2.7-1.6) [15 pix)	-	Maxim	fabs, Boulder, Cobble, Be WO MOST PREDOMINAT mum Pool Depth (Measu ston Avoid pands pools entimeters [70 pts] 30 cm [10 pts] 22 d on [25 pts]	E SUBSTRA	те түг	ol depth within	the 61 meter (200 ft) (Check ONLY 5 cm - 10 cm [15] 5 cm [5 pts]	J evaluation n	mate types:	Pool I Max
RIPARIAN ZONE AND FLOODPLAN GUALITY ON/OTE: Rever Cell (L) and Right (R) as looking downstream? RIPARIAN WIDTH FLOODPLAN CUALITY L R (Per Bant) L R (Most Predominant per Bank) L R (Most Per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Per Bank)		> 4 Bm > 3 0 m > 1.5 m	elers (> 13') [30 pls] -4.0 m (> 9"7" - 13.) [25 -3.0 m (> 4"8" - 9"7") [2	pts]	lo egsi		> 1.0 m - 1 6 m (> 3 s 1 0 m (s 3'3") [5 g	3" - 4' 8") [15 48]	prof Book 1.59	Max Max
RIPARIAN MOTH RIPARIAN MOTH RIPARIAN MOTH RIPARIAN MOTH RIPARIAN RIPARI			BIDABIAN ZONE AND	FI CODE A					onking dawa streets fr	
Nestron Kin		NE	(Per Bank) Wide >10m	1	L R	(Most Predomi Mature Forest, Immature Forest	nani per Bank) Wetland	L R	Conservation Tillage Urban or Industrial	
Stream Flowing Subsystem Stream (Social Edge Stream Stream) Subsystem Stream (Social Edge Stream) COMMENTA COMMENTA COMMENTA			None						Crop	
		Ø O	Stream Flowing Substated flow with Isol				Moist Chann			5
SINUDSITY (Number of bends per 61 m (200 ft) of channel) Check ONLY one box)				ibends par 6	1 m (20	0 ft) of channel)	(Check ONLY one	box	7 30	

Report Name: Stream 20 Modified Class II

				2.0	a. Dibat. and small	44.1
Chin	Primar	y Headv	vater Habitat Evalu			52
			HHEI Score	(sum of m	etrics 1, 2, 3):	27
SITE NAMEA OF		Married .				
HH-MDT-0330	_SITE NUMBER		RIVER BASIN			
LENGTH OF 5T	REAM REACH (B) 1.50	A LAT	LONG. RIV	ER CODE _	RIVER MILE	
	Wild scores _NO			-		
NOTE: Comp	plete All Items On This F	orm - Refer 1	o "Field Evaluation Manual for	Ohio's PH	VH Streams" for Instr	uctions
STREAM CHA			WHEL RECOVERED THE	OVERING (TRECENT OR NO RECO	OVERY
MODIFICATION	ONS: COCCO	E llow				
	2					
			substrate present, Check ONLY two e types found (Mex of 8). Final metric			HHEI
TYPE	.,	PERCENT	TYPE SILT IS PO		PERCENT	Metric
	OR SLABS [16 pts] ULDER (>256 mm) [16 pts]		SILT [3 pt] LEAF PACKWOOD	PEBRIS IS	161 <u>- / 3</u>	1 Onits
O O BEC	OROCK [16 pt]		□□ FINE DETRITUS IS			Substrate Max = 40
	BBLE (65-256 mm) [12 pts]	30	CLAY OF HARDPAN	[0 pt]	-	max = 40
	AVEL (2-64 mm) [9 pts] 4D (<2 mm) [6 pts]	20	☐☐ MUCK [ff pis] ☐☐ ARTIFICIAL [3 pis]			23
			COLO AKTIFICIAL [O pla]		100	-
	otal of Percentages of bs, Boulder, Cobble, Bedroc	k	18		(0)	A+B
SCORE OF TWO	MOST PREDOMINATE S	DETRATE TY	TOTAL NUMBE	R OF SUBSI	RATE TYPES	
			al depth within the 61 mater (2001		eath at the time of	Paol Depth
	ion. Avoid plunge pools from simeters (20 pts)	roed culumts o	storm water pipes) (Check DNLV			Mac x 30
> 225 .	30 cm [30 pts]		S «5 cm (5 pss) NO WATER OR MC	DOSESTAN VA	Common Promo	15.
	2.5 cm (25 pts)			-	Jecles 1	
COMMI	ENTS		MAXIMUM P	OOL DEPTH	(continuedara)	
	FULL WIDTH (Measured as	the average of		k QNLY one		Bankfull Width
>35m	tars (> 13) [10 pts] - 4.0m (> 0.7 - 12) [25 pcs]		3 +10m - 1.6m p 3		pts)	Max=30
	30m (* 48'-8'7') [20 pix				1.t 10	10
COMM	ENTS		AVERAGE B	ANKFULL W	DTH (melars)	9
			Information must also be complete			
	RIPARIAN ZONE AND FLO RIPARIAN WIDTH		LITY ANOTE: River Left (L) and PLAIN QUALITY	Hight (H) as	looking downstream or	
LR	(Per Bank)	L R	(Most Predominant per Bunk)	μR		
	Wide >10m Modernie 5-10m	90	Meture Forest, Welland Immature Forest, Shrub or Old	00	Conservation Tillage Urban or Industrial	
		-	Field		Open Pasture, Row	
00	Narrow <5m		Residential, Park, New Field	00	Crop	
	None COMMENTS		Fanced Pasture		Mining or Construction	
	COMMENT					

Report Name: Strea	m 19 Modified Class	SO-810 1 1789 27
-		
Appropri	IAL STREAM INFORMATION (This Info	matter Must Also be Completed);
	OHEI PERFORMED? TYOS TO NO	QHEI Score (If Yes Atlash Completed QHEI Form)
□ wave □ twy	DOWNSTREAM DESIGNATED USE(S) Name Vame	Distance from Evaluated Stream
П вунд		INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SIZE LOCATION
		NRCS Soil Map Pays NRCS Soil Map Stream Order
		Township / City
		T(With the City
Base Fice	MISCELLANEOUS v Conditions? (Y,N) // Date of te	dependence Oxygents Quently
	furbidity* (Y/N), // Canopy	
		(% open). See
		Oxygen (mg/l1 ph (\$U.) Conductivity (µmhos/ort)
is the sun	ipling reach representative of the stream	(YAN) Y !I not please explain
Adolutria	comments/description of publics impli	WAS .
_		
Performe	BIOTIC EVALUATION Of (Y/N) (If Yes, Record all of ID number Include	beorvalions. Vaucher collections optional. NOTE, at voucher samples mutt be tabeled with the si- appropriate field data sneets from the Primary Headwacer Habyot Assessment Manual).
Fish Obs	erved? (Y/N) Voucher? (Y/N) Tadpoles Observed? (Y/N) Vouche	Salamanders Observed? (YIN)
	is Regarding Rodogy	
	ORANGING AND NARRATIVE	DESCRIPTION OF STREAM REACH (This must be completed):
led		alures of interest for alle evaluation and a narrative description of the stream's location
	Pull	The state of the s
FLOVV		Catherine (7)
	1' -	II MED

port	Name: Stream 20 Modified Class II
	ADDITIONAL STREAM INFORMATION (This Information Must Also the Compdeted):
	QHEI PERFORMED? - Tives Di No. QHEI State (II Yes, Allath Completed OHEI Form)
	DOW/ISTREAM DESIGNATED USE(S)
	☐ WWF Hame
	Distance From Evaluated Stream Distance From Evaluated Stream Distance From Evaluated Stream
	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	USGS Quadrangle Name NRCS Soil Map Page NRCS Soil Map Stream Order
	County
	MISCELLANEOUS ,
	Base New Constitution IV Date of last precipitation (VIII) Operator
	Photograph Information 2 Photos Upablem & Association
	Develop Turksky (YAO M Canopy (Yopea) 6.0
	Were samples collected for wiver chemistry? (YM); W (Note tab sample no or to and altach results) Lub Munitral
	Field Measures Temp (*C) Desselved Cryper (mg/h) nH (M) Condoct vy/ (m reshin)
	Is the sampling reach representative of the stream (YAI) \(\frac{\psi}{2}\) if not please any (YAI)
	Is the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream (Y/II) If not presse in the sampling reach representative of the stream represent
	Additional comments/cescription of political impacts. Additional comments/cescription of political impacts.
	BIOTIC EVALUATION
	Performed? (YM)
	Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Frogs or Touppoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrales Observed? (Y/N) Voucher? (Y/N)
	Frogs or Teopoles Observed? (Y74) Voccher / (Y74) Aquat: Wacronverterrates Coserved (184) 5555-1774
	Continues interiory money
	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
	Include Important landmarks and other features of interest for site evaluation and a narraine description of the structure for site and other features.
	Constitution / in words or we
	m.
	My transfer of the last of the
	FLOW
	apol mo

PHWH Form Page - 1

FLOW RECINE (All Time of Evaluation) (Check DNLY one bos)
Sistem Rowing
Displayments the stated pools (intervities) Only channel inschied pools, no few (intermittent)
COMMENTS
COMMENTS

| SINUDSITY (Number of bends per 61 m (200 ft) of channel) | (Check OAL Y one boxt): | None | 73 | 1.0 | 3 | 2.0 | 2.6 |

ADDITIONAL STREAM INFORMATION (This information Must Also be Completed):

	-32516	н <u>, лу Р - Белгр</u> 5 - 3 актелимаел		RIVER BAS	BIN		INAGE AREA (ml)	_
	175/11.	SCORER MOT/	CMS CON	MENTS E	Survent	Dhia's PHWI	H Streams" for Instri	uctions
TREAM	CHANNE CHANNE ATIONS:	L ONONE	NATURAL CHA				RECENT OR NO RECO	
SV (Mi	BLDR SL BOULDE BEDROC COBBLE GRAVEL	[(Ealimate percent of Add total number of sign ABS [18 pts]	every type of sificent substrate PERCENT	abstrate president specification in the control of	eni. Check ONL Y Ivo () Max of 8). Finel melinc SILT [3 pl] LEAF PACKWOODY FINE DETRITUB [3) CLAY OF HARDPAN MUCK [0 pts] ARTIFICIAL [3 pls]	DEBRIS (3 pt	PERCENT SD 2.0	HH Met Poli
	dr Slebs, E	Percentages of oulder, Cobble, Bedrock ST PREDOMINATE SU		(A) Es: 3	TOTAL NUMBE	R OF SUBSTE	(B)	Α.
3 2	0 centimes 25 - 30 c	ool Depth (Measure th wold stunge pools from ers [20 pts] m [30 pts] m [25 pts]	e maximum po roed colveits or	ol depth with	> 5 cm - 10 cm [15 < 5 cm [5 pts] NO WATER OR MC	pts] NET CHANNE	L (0 pea)	Pool
	DANHDILL	0.0			MAXIMUM P	OOL DEPTH (Shehia 2	_
	.C metare (. WIDTH (Measurad as > 13') [30 pte] m (> 8' 7" - 13') [25 pte] m (> 4' 8" - 8' 7") [20 pts			> 1.0 m = 1.5 m (> 3") [5]	3" - 4' 87 [16 p	Rest as	5
	RIP	RIAN ZONE AND FLO	This	information	must also be complete OTE: River Left (L) and	ed Right (R) as b	ooking downstream &	
	R (1	PARIAN WIDTH Per Bank) Vide >10m	<u>FL000</u>	[Most Pred Meture For			Conservation Tillage Urban or Industrial	
	JO N	arrow <5m	00		, Park, New Field sture	00	Open Pasture, Row Crop Mining or Construction	
	-00	W REGIME (Al Timo of			■ Moist Chan	nel isalaled po Lno weler(Ep	ools, no Row (Intermittent oberneral)	n.:
	Stree Sybs	m Flowing urface flow with isolated WENTO				host:		
	Stree Sylbs COI	urface flow with isolated		00 ft) of chanc	el) (Check <i>ONLY</i> on a 2 0 2 2,5] 30] >3	
	Street Sylbs COI SIN None 0.5	urface flow with isolated	nds per 61 m (20	OO N) of channing	20 2,5			olice)

Stream 22, Modified Class 1

HILMOT 032516 2

11-1-		CATION (1987 - 117871 ISO 2510/2 SITE NUMBER	n - G000.	RIVER BASIN			UNAGE AREA (mir)	
ENGT	HOFE	REAM PEACH (8)	JAT.	LCNG	nist	R CODE	RIVER MILE	_
DATE	3/25	The score MOT	/(.M'> cos	MENTS Y 22	- A-MANAGAMA	District Patrick	Li Channa'i fat larda	clione
NOT	E: Com	plete All Items On This Fo						
					VERED LI RECO	OVERING L	RECENT OR NO RECO	VERY
MOD	IFICAT	ions: CULV	ERTEL.	,				
١	SUBS	TRATE (Estimate percent of e	very type of su	ibstrate present	Check ONLY two	redominant s	ubstrate TYPE boxes	HHEI
TYPE		(40) Add total number of signif	Reant substrate PERCENT	TYPE	cf8) Fmil menc	score la sum	PERCEN1	Metric
86	BL	DR SLABS [16 pts]		O O SIL	T [3 pt] AF PACKWOODY	neggie th M	10_	POILLE
00		DROCK [18 pt]			NE DETRITUS [3 F		LD.	Substrate
50		OBBLE (65-258 mm) [12 pls]			AY or HARDPAN		7.0	
] GF	RAVEL (2-64 mm) [8 pts]			JCK [0 pts]		30	6
30	S/	ND (<2 mm) (8 ptv)		O O AR	TIFICIAL (3 pts]			
		Total of Percentages of	0	(A)			(B) -3	A + B
acon	BldrS FOFTV	labs, Boulder, Cobble, Bedrock VO MOST PREDOMINATE SUE	STRATE TYP	es: L	TOTAL NUMBER	R OF SUBSTI	RATE TYPES:	
-		num Post Depth (Measure the			- cd	i evelunion ri	ach at the time of	Pool Dept
2.	Masir	num Post Depth (Measure the iden. Avoid plunge posts flors-r	maximum po-	of depth within th storm water tipes	Check ONLY	one pox):	acii at ti e cinia ci	Mas = 30
O								
		ordimeters (20 pts)		1.3	3.cm - 10 cm [15]	pts]		0
Н	> 225	- 30 cm (30 pts)		60	Sem - 10 cm (15) Sem (5 pis) O WATER OR MO	NOT CHANNE	Liberal	5
8	> 225 > 10 -	-30 cm (30 pis) 72.5 cm (25 pis)		60	Sem - 10 cm (15) Sem (5 pis) O WATER OR MO	NOT CHANNE	Vendes 2"	5
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Pervit Form Page -

Moderate to Severe

AH-MO1-037216-02

HHEI Score (sum of metrics 1, 2, 5):

Chespa Primary Headwater Habitat Evaluation Form

Moderate (1945) 19

Stream 24 - Modified Class 1

None
0.5

STREAM GRADIENT ESTIMATE
Flat (1.4 ft or 1)

Flat (1.4 ft or 1)

Flat (1.4 ft or 1)

HH-MDT-03816-92 SITE HUMBER AND RIVER BASIN
LENGTH OF STREAM REACH IS 200H LAT. COM
DATE 22/28/16 SCORER PUTT FEEL COMMENTS RIVER CODE . _____ RIVER MILE ___ NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CHANNEL | I NONE MATURAL CHANNEL | RECOVERED | RECOVERING | RECENT OR NO RECOVERY MODIFICATIONS: Pipeline Construction + within trans. POW SUBSTRATE (Estimate percent of every type of substrate present, Check ONLY two predominant substrate TYPE boxes (Max of 40). Add total number of significant substrate types found (Max of 6). Final metric score is, sum of boxes A & B. BLDR SLAPS (16 pts)
BCDRCCK (18 pt)
BCDRCCK (18 pt)
COBBLE 65-259 mm) (12 pts)
GRAVEL (2-94 mm) (0 pts)
BAND (<2 mm) (6 pts) PERCENT FINE DETRITUS (1 pm)
CLAY or HARDPAN (0 pm) Substrate Max = 40 MUCK [10 pie]

ARTIFICIAL [3 pie] 13 (8) L; Total of Percentages of Bldr Stebs, Boulder, Cobble, Bedrock (A)

SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: Meathman Food Death (Meature the maximum pool depails within the 61 molen (20010) evaluation reach at the time of enablems. Audia pampe pools stemands mineral existences depails (Check ONLY on box).

- Shortentials (2014)
- 205 - 200 cm (20 yes)
- 205 - 200 cm (20 yes)
- 205 - 205 cm (20 yes) Pool Depti MAXIMUM POOL DEPTH (equinalers): COMMENTS BANK FULL WOTH (Massured as the everage of 3-4 measurements). (Check ONLY one box):

- 4 Consists 0: 15) (16 pcg).

- 3 Con -4 00 ← 0 27 + 13 (15 pcg).

- 1 Con -4 00 ← 0 27 + 13 (15 pcg).

- 1 Con -5 00 ← 0 27 + 17 (16 pcg).

com	ENTSSTAYS			_AVERAGE BA	NKFULL WI	OTH (fineless)
	RIPARIAN ZONE AND	FLOODPLAIN QUA				ooking downstream@r
	RIPARIAN WIDTH		PLAIN QUALITY			
KI K	(Per Bank) Wide >10m	Ď.ª	(Most Predominer Mature Forest, We	thend	òò	Conservation Tillage
	Moderate 5-10m	図図	Immature Forest,	Shrub or Old		Urben or Industrial
ac	Narrow <5m	2 -2	Residential, Park,	New Fleid		Open Pasture, Row Crop
	None Pos	Line P.O.	Fenced Persons	wintaine	100	Mining or Construction
8	FLOW REGIME (AI Tin Stream Flowing Subserfeet flow with the COMMENTS	ne of Evaluation) (Check ONLY one box)	l, isaled po	iols, no flow (intermittent) themoral)
	BINDOSTY (Number of None 0.5	bends per 61 m (2 1.0 1.5	30 ft) of channel) (C	heck ONLY one b 20 25	ox):	3.0
STRE let (0 5 ft-	AM GRADIENT ESTIMA 100 ft.		derete (3 k) (30 k)	/Moderate to	Savere	O Same (19 30 %)

Stream	23,	Modified	Class

Stream

DOWNSTHEAM CESTIONATED LISTIS:	Score (If Yes, Alliern Completed CHELForm)
☐ vW/H Kame	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLU-	DING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCA.
USGS Quadrangle Name	NRCS Soil Map Page NRCS Soil Map Stream Or
	Township / Crig
MISCELLANEOUS	
Base Flow Conditions? (Y/N) Date of last predictions produced by the produced produced by	spration 3/2.9/11/P Quantity
Elevated Turbigily* (Y/N)/ Canopy (% ope	70%
	V (Note tab settor'e no oz til nod atrach results) Leb Number
	r (mg/l) pti (3 U) Conductivity (µmhos/cm)
	r (mg/l) pli (3.0.) Conductivity (µmhos/cm)
is the sampling reach representative of the stream (Y/N).	7 I not presse mpo
Acobinal remments respective of policion impacts	
BIOTIC EVALUATION	
BIOTIC EVALUATION	
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Performed 7 (17/19) (If Yas, Record all colonial ID number Include appropriate	onate field data phools from the Primary Hoodwriter Habital Assessment Manu
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- Modified Class 1	MF-MDT-1332811-42
ADDITIONAL STEEAN INFORMATION (This Internation Ma	est Also toe Complete-Ny,
- Committee - Comm	e (Il ^e Yes, Altach Completed OHEI Form)
DOWNSTREAM DESIGNATED USE(S)	The state of passes and the state of the sta
	Distance from Evaluated Streets
CWI(flamia	Defense Rock Evelvated Streets
D BWH ****	Distance from Evaluated Stream
MAPPING ATTACH COPIES OF MAPS, INCLUDING	THE ENTIRE WATERSHED AREA CLEARLY MARK THE SITE LOCATION
(GS Outerwije Name	NRCS Soll Map Page NRCS Soll Map Stream Crider
ant, (n.c.	Township r Oity
MISCELLANEOUS V Date of last production	Astophy (End, AM) -
usa flow Conditions? (FMI) 11 Date of last precipitation	n U. // E / IB Ownty
Photograph Internation C. 17.6764 Ltd.	Tream + Downstram
evated Turbidity' (Y/N) Canopy (% 100%)	50
	Note lab sample no lor rall and attach results) Lab Number
	yt)pH(SU)Conductivity (pronostera)
s the sampling reach representative of the suram (Y/N) 💆	Mnot please expraint
BIOTIC EVALUATION Performed? (Y/N)	Vocalier collections optional NOTE, also vocalier complex must be labeled with the si
ID number Include appropriate Sh Observed? (Y/N) Vguchar? (Y/N) Salame	field data sheels from the Primary Headwider Habbal Assessment Monitaly
Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Strame	Aqualic Macroinvartebrales Observed? (Y/N) Voucher? (Y/N)
ommen's Regarding Bidlogy	
DRAWING AND NARRATIVE DESCRI	PTION OF STREAM REACH (This must be completed):
Include important landmerks and other features of lot	occut for alle avaluation and a nutrative steer of the stream's lacation
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1) chall	76
- 0:	n Million
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FLOW /	Martin Total
100	et in mark of
(11)	Bearing 3
(8)	1860
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Egolic ROW

Stream 25 - Modified Class I	
ChicEPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):	
STENAMEROCATION COUNTY HOUSE AND AND PARTY OF THE PARTY O	
LENGTH OF STREAM REACHING ESCAPE LAT LONG RIVER CODE RIVER MILE	-
OATE: Complete All Illems On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction	18
STREAM CHANNEL MOHE MANUFAL CHANNEL BRECOVERING RECENT OR NO RECOVERY MODIFICATIONS: Trans/Pyritims ROW Construction	
	HEI
BLDR SLABS [16 pis] SILT [3 pi] 90 BOULDER (>255 mm) [16 pis] LEAF PACKWOODY DIERRS [3 pis]	ints strate
BEDROCK [18 pt]	7
SAND (<2 mm) [6 pl6] 40 ARTIFICIAL [3 pl8]	ノ
Total of Percenleges of Bird Saibs, Boulder, Cobble, Bedrock 2 (A) (B) (C) Score of TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES:	+ B
Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (700 fg evaluation reach at the lime of	Dopt
+30 centimeters (20 pts)	
OMMENTS MAXIMUM POOL DEPTH (sectional 2)	
S. BANK FULL WIDTH (Massured as the systage of 3-4 messurements) (Check ONLY one box):	nkfull ldth
	K#30
COMMENTSAVERAGE BANKFULL WIDTH (R)OFETS)	
This information must also be completed INFARCAN ZONE AND FLOODFLAIR QUALITY: "SHOTE River Loft (L) and Right (R) as looking downstream in	
RIFARIAN WIDTH L. R. (Per Benk) L. R. (Most Predominant per Bank) L. R. (Most Predominant per Bank)	
7 Wide > 10m	
□□ Narrow <5m	
COMMENTE Procline ROW recently maintained On Moring or Construction	
FLOW RECORE (of Time of Evertusion) (Check ONLY one box) The term Flowthy Obbsyrince flow with justiced goods (other play) Obbsyrince flow with justiced goods (other play) Obbsyrince flow with justiced goods (other play)	
SNUGSTY (Number of bends per 6 I m (200 ft) of channel) (Check DNLY one box): None	
STREAM GRADIENT ESTIMATE Flat (0.5 1/12) ft Flat to Moderate Indicate Indicate	
PHWH form Page - 1	_
ream 26 - Modified Class 1 المحمد ا	1
HHEI Score (sum of metrics 1, 2, 3):	1
AA-AA-A-B-DITE NUMBER O'S RIVER BASIN DRAINAGE AREA (mi²)	_
LENGTH OF STREAM REACH IN 150 LAT LONG RIVER CODE RIVER MILE DATE 18 Mar 2012 WORKER 1110 BLACK COMMENTS	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruction	
STREAM CHANNEL ON ONE PHATURAL CHANNEL & RECOVERED RECOVERING RECEIT OR NO RECOVER MODIFICATIONS:	Υ
	ΗĘΙ
BLDR SLASS [16 pis] SILT [3 pt] PC	etric oint
O O DEDDOOK MEAN OF SUIT OF SU	oiste# cr = 44
COBBLE 60-229 mm (12 pts)	7
	+ B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES:	
evaluation. Avoid plumps pools from road cultivists or storm water pipes; (Check ONLY one book)	Dept
> 30 centimaters (20 pts)	5
COMMENTS MAXIMUM POOL DEPTH (contests)	
	nkful Adth
- 40 metro): 17) (10 pts) - 3.0 m - 40 m (+07 - 13) (25 pts) - 3.0 m - 40 m (+07 - 13) (25 pts) - 1.0 m - 20 m (+07 - 17) (25 pts) - 1.0 m - 20 m (+07 - 17) (25 pts)	14030

Sistence from Evaluation Copylis of Maria, Including the Evaluation Map Page		O Yes XNo QHE S	ore (II Te:	E VCIENT COMPRISE Q	AEI POING
Control Name	WWH Name	NATED USE(S)		Distance from	Evaluated Stream
MAPPINO, ATTACH CONTES OF MAPS, ISOCUIDANG THE PUTTER WATCRESCO MAPS CLEARLY MARK THE SITE LOCAL SIGS Outside rught Hame	CWH Name			Distance from	Evaluated Stream
SEC Quardenigle Name		0.0000000000000000000000000000000000000	ar-ar-a-tonica	ALL ATTHER PROPERTY	
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Were samples collisated for visiter chomistry? (YM).	Photograph Information	Charles, U	COMMENT TI	101 money	
Is the sampling resch representative of the stream (YAD)	Elevated Turbidity* (Y/N)				
S-Modified Class 1 ADDITIONAL STREAM INFORMATION (This Information Must Also to Completed): ONLY PERFORMEDY: This You will be stream (This Information Must Also to Completed): ONLY PERFORMEDY: This You will be stream (This Information Must Also to Completed): ONLY PERFORMEDY: This You will be stream (This Information Must Also to Completed): ONLY PERFORMEDY: This You will be stream (This Information Must Also to Completed): ONLY PERFORMEDY: This You will be stream (This Information Must Also to Completed): ONLY PERFORMEDY: This You will be stream of the will be stream of the strea	Were samples callacted for water	chemistry? (YAN)			
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DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be complete state begins and incomplete state sta	Slah Ohrangad (VAI)	fourther? (V/N) Sale	manders Observed? (Y	/N) Visualier? (Y/N)
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OMEI PERFORMEDY - Yes	6 - Modified Class 1				
DOWNSTREAN DESIGNATED USE(8) Delance from Evaluated Stream Options from Evaluated Stream NRCS Sol Map Place MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA CLEARLY MARK THE SITE LOCK USGS Quedrangle Name NRCS Sol Map Page NRCS Sol Map Page NRCS Sol Map Stream C Township / City MISCELLANEOUS Base Flow Condens? (1/6) Dates fast precipitation Dates fast precipitation Dates fast precipitation Dates fast precipitation Deland Turbiddy (1/6) Deland fast precipitation Deland		ATION (This information	Must Alse to Comple	iled):	
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County Township / City MISCELLANEOUS Base Flow Condenns? (YAS) Date of law precipitation 3/2/1/15 Ovanthly / Infligure A Production information: Exercised Turbiddy* (YAS) Concey the cases) ECU These samples suggested the varies character's CYAN AC dicta has sample on or is a suddent at resulting Lab Number. Field Measure: Temp (*C) Desolved Oxygen Imp(s) ph (SU) Consists of gambodiene is the sampling reach representative of the stream (YAS). Y. If not, please explain	ADDITIONAL STREAM INFORM OMEI PERFORMED? DOWNSTREAM DESK	- O Yes YNO QHELS	Score (If Y	Es, Allach Completed Completed Completed Complete from Distance from Distance from	m Evaluated Stream n Evaluated Stream n Evaluated Stream
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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 marrishe description of this stream's local
FLOW

PHWH Form Pa

RIPARIAN ZONE AND FLOODPLAN GUALITY

RIPARIAN WIDTH

RIPARIAN WIDTH

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Residents, Pear, New Field

COMMENTS

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COMMENTS

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STREAM GRADIENT ESTIMATE

AVERAGE BANKFULL WIDTH (Dates)

L R
Conservation Tidage
Urban or Industrial
Copen Parture. Row
Copen Parture. Row
Mining or Coest/viction

Severe (liberators)

Stream 27 - Modified Class 1 Primary Headwater Habitat Evaluation Form	1281 1E
HHEI Score (sum of metrics 1, 2, 3): STERMINGTON	
SUBSTRATE [Estimate percent of every type of substrate present, Check ONLY two predominant substrate I*/FE bottos (Max of 40) Add I deal number of significant substrate types found (Max of 6). Final metric socrar is sum of boxes A & E TYPE	HHEI Metric Points Substrate Max = 40
evaluation. Auroid plange pools been road outwate or storm viving powal. 3.0 centrol mills plange 225 - 30 one 100 plang. 3.10 - 225 - 30 one 100 plang. COMMENT ON MOUST CHARLES (Report) BANK FULL WIDTH (Measured as the awarage of 3-4 measurements). 3.10 BANK FULL WIDTH (Measured as the awarage of 3-4 measurements). 3.10 - 3 4 C. medicary (1.75) (1967).	Bankfuff Width
This informalion must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY AND FLOOD AN OLD THE STORM	
SINUOSITY (Number of bends per 6f im (200 ft) of channel) (Check OALY one box) 30	_
Otanan 28 Medified Class 4	

	in li		PHWH Form	Page - 1			
eam 28	- Modified Class						
						Par	red
Chi	Prima	iry Heady	vater Ha	abitat Evalu HHEI Score			2.4
BITE NAME	LOCATION GALLET	Or Haritie	1		K(Company)		
	032816-06 STE NUM	HER 106	FIVER BA			NAGE AREA (mi')	
DATE C'3	Sex /12 scores rto	7/02 R C		primeral			
	omplete All Items On The						
STREAM C MODIFICA		ROW			COASHING D	RECENT OR NO REC	DVERY
(⊘ SUE	ISTRATE (Estimate percent	-53000			o pradomio ani si	halmia TVDE hoves	_
(Me:	x of 40). Add total number of	significant substrat	te types found	(Max of 8) Final metr	c score is sum o	f boxes A & B. PERCENT	HHE Metri
	BLDR 6LABS [18 pls] BOULDER (>256 mm) [16 pl			SILT [3 pt] LEAF PACKWOOD	V DEDDIE 11 ma	40	Point
00 0	BOULDER (>256 mm) [16 pt BEDROCK [16 pt]	"		TIME DETHITUS D		.,	Substra
	COBBLE (65-256 mm) [12 pl			CLAY or HARDPAN	[bpt]		Max
	GRAVEL (2 84 mm) [8 pts] SAND (<2 mm) [6 pts]	-10	00	MUCK (0 pls) ARTIFICIAL (3 pls)			14
-	Total of Percentages of		(A)			(0)	A+B
	Slabs, Boulder, Cobble, Bad IWO MOST PREDOMINATE		res II	TOTAL NUMB	ER OF QUANTA	5	A.S.W.
	inum Pool Depth (Wessum				H-31-11-25-11-22-	CHARLES COLUMN	Pool Dep
evar	uation Avoid plungs pools fr centimaters [20 pts]	om road culverts a	e storm water p	*p*** (Check ONL) * 5 cm - 10 cm [15	one boxl:		Mare
D > 22	5 - 39 cm [30 pts]		g	<5 cm (\$ pm)			5
	- 22 5 cm (25 pin)			NO WATER OR M		Worker 10-51	<u> </u>
	мента				OOL DEPTH (6		_
> 4.0	IK FULL WIDTH (Measured melens (> 13') [30 pts]			nents) (Che > 1.0 m - 1.5 m (> 1	ck ONLY one be 3' 3" - 4' 6") [15 pt		Bankfu Width
2 > 30	m - 4.0 m (> 9°7° - 13°) [25 p m - 3.0 m (> 4°8° - 9°7°) [20	(s)	風	≤ 1.0 m (≤ 3° 3°) [5			Massa
	IMENTS	wal		AL STRACT	SANKFULL WID	freet i'	15
CON	IMENIO			AVERAGE	MUKEUCE AID	In (meters)	-
	RIPARIAN ZONE AND F	This	information g	nust also be complet DTE: River Left (L) an	ed	sking downstreen A	
	HTQIW MAIRANIN		PLAIN QUALIT	ц		DANING COMPLETE COLUMN	
N.	R (Per Benk) Wide > 10m	ÒÖ	Most Predo	orinent per Bank; at Wetland	άå	Conservation Tiliana	
	- 111-4 - 141.7	Ø (3)		orest. Ehrub or Old	00	Urben or Industrial	
	☐ Narrow <5m	AD.	10000	Park. New Field		Open Pesture, Row	
		00	Fenced Past		00	Crop Mining or Construction	
<u>o</u> k	FLOW REGIME (AI THIS STEEN Flowing			Moist Char		is, no flow (Intermitiant)	
U	Subsurface flow with install COMMENTS 1000	Bearing Cal	N .	☐ Dry thenne	l, no water (Eph	émeral)	
_	SINUOSITY (Number of b	ends per 61 m (20		I) (Check ONLY one	box)		
	None 0.5	1.0		20	Н	3.0 >3	
STR	EAM GRADIENT ESTIMATE					Padd	
Figl (0.5 m	Fal to Moder	ale 🗌 Mod	lerate (2 fills, 1)	☐ Moderate	lo Severe	28 Severation	1(9)

ADDITIONAL STREAM INFORMATION (This information Mind After by Comp.)	filiate.
QHEI PERFORMED? - TYes THO GHEI Score (II)	Yes, Atlach Completed OHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
T V/WH Name	Distance from Evaluated Stream
O EWS NAME.	Dislance from Evaluated Stream
MAPPING ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WAT	ERSHED AREA, CLEARLY MARK THE SITE LOCATION
	ioil Map Page NRCS Sdl Map Stream Orde
5000 dotterings training	
Courty Township / City	
MISCELLANGOUS	- W. J
Base Flow Conditions? (YM) Dale of last precipitation	Omning Visit
nagartania Z	
Elevated Turbiday® (Y716)	
there samples collected for water chemistry? (Y/IN	o or id and effect results) Lab Number
Flein Measures Temp (FC) Dissolved Oxygen (mg/l) pH	
is the same ingreach representative of the stream (YVN)	tuo.
Additional comments/description of politrion in the interest	
Fish Observed? (YA) Vouchar? WINL Salamenders Observed? Frogs or Tadpoles Observed? (YA) Vouchar? (YA) Aqualic Macron Comments Reparting Biology	or the Primary Headwiter Haz (at Assessment Manuful (Y/N) / Voucher? (Y/N) / Voucher? (Y/N) / Voucher? (Y/N) / Voucher? (Y/N)
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3 - Modified Class 1	HIE NOTE DESCRIPTION
ADDITIONAL STREAM INFORMATION (This Information Must Also	o Lo Completed):
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DOWNUTRIAN OF SCHAFED USES	
WANTE STORY	Dislance from Evaluated Stream
	Distance from Evaluated Stream Distance from Evaluated Stream
T EV/H Numm	ITIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	NRCS Sor Map Page NRCS Sor Map Stream Order
County Towns	ship / Cay
MISCELLANEOUB	(Early AM)
Base Flow Conditions? (Yill) N Date of last precipitation 0	3/21/16 Countily ! Heavy
Propositioner 2 Photos U.Dalieni.	Dravasheen
MISCELLAREOUS MISCELLAREOUS Base Flow Conditions? (Yel) Date of last precification D Decopress transaction Decopress transaction Decopress transaction Decopress complete comp. The condition of the complete comp.	0
	s sample no crist statistism results) Lab Hamber
	pH (S U)Conductivity (unitrovian)
is the sampling reach representative of the stream (YiN) / if not	please explain
BIOTIC EVALUATION BIOTIC EVALUATION BY S. Rector of department of the control o	er colleations ophenal - NOTE1 a I voucher samples must be labeted with the s As therets from the Pinnary Hand water High tal Assessment Manual I
Fish Observed? (YM) Voucher? (YM) Salamanders C Frogs of Teddales Observed? (YM) Voucher? (YM) Aqua	Doserved? (Y/N) Voucher? (Y/N) Voucher? (Y/N) Voucher? (Y/N)
Comments Regarding Biology	
DRAWING AND NARRATIVE DESCRIPTION	N OF STREAM REACH (This must be completed):
Phillips People	us also evaluation and a named to description of the stream's location
PLOW - WICHLESO	- (H)
1-10, VOW TIME	13

HH-MOT 137 18 64

HH-MDT-	OCATION	Count Hyp	RIVER IM	abitat Evalu HHEI Score	(sum of me		4
DATE D3/	STREAM REACH (F 28/16 SCORES mplete All Items	On This Form - Re	COMMENTS _E fer to "Field Evi	Acros Riversian Manual for	Ohio's PHW	RIVER MILE	
STREAM C. MODIFICA		Inonematural Selve RO		ECOVERED (2) REC	OVERING [RECENT OR NO RECO	OVERY
TYPE	of 40), Add total nur LDR SLABS [16 ptr OULDER (>256 mm EDROCK [16 pt] OBBLE (85-259 mm IRAVEL (2-64 mm)] (AND (<2 mm) [6 ptr Total of Percentage Stebs, Boulder, Cobi	PERCE	ostrate types found NI TYPE OO	serd. Check ONL Y two (Max of 8) Final metric SILT [3 pt] LEAF PACK/WOOD FINE DETRITUS [3 CLAY OF HARDPAN MUCK [9 pts] ARTIFICIAL [3 pts]	escore le sum l' DEBRIS [3 pi pts]	PERCENT 35	HHEI Metric Points Substrate Max + 40
G :30:	mum Pool Depth (f umon Arrard pringe centimeters (20 pts) i - 30 cm (30 pts) 22 5 cm (25 pts)	pages from road culve	m pool depth with	oin the 61 mater (2001) hp44) (Check ONLY > 5 cm - 10 cm (15 < 5 cm [5 pts] HO WATER OR MA	pis)	i (apix) 4"	Pool Depti Max = 30
>30	K FULL WIDTH (MA nation (> 13) (30 pts n - 40 m (> 97 c t n - 20 m (> 47 f - 1 MENTS	3) [25 pts]	pi or 1.4 moasure	>1.0m - 1.5m - 3 s 1.0m is 3 3 1 15		neit 2'	Bankfull Width Mass 28
20 20 10	(Per Bank) Wide >10m Moderale 5-10	TH FLOODFLAIN	OUDPLAIN OUDU R (Most Pred Meture Fore Immature F Field	nuti also be campled OTE River Left (L) and TY Ominant per Benk) set, Wetland orest Shrub or Old Park, New Field	I Right (R) esk	coking downstreams Canservation Tillage Urban or Industrial Open Pasture, Row Crop	
(2) (2)	FLOW REGIME	At Time of Evaluation) (Check ONLY o	ne box) Most Chan	nei, isofaled po	Mining of Construction ools, no flow (Intermittent)	
g	SINUOSITY (Nur None 0.5	nber of bends per 61 r	m (200 ft) of channe	(Check ONLY one	pow)	3.0	
	EAM GRADIENT ES	TIMATE o Moderale 🗇	Moderale (2.4 %) s	(3), (Moderate	to Severe	☐ S#zer# :L	44
STR							

HH-MDT		SITENUMBER		_ RIVER BA	Sans		RANKAGE AREA (MP)	
DATE	3/28/160	ACH (R) _150 HOREM _0012	BCR co	MMENTS_E	phonoral		RIVER MILE	_
							VH Streams" for Instru I RECENT OR NO RECO	
MODIFIC	CHANNEL ATIONS:	Pipeline		NAMES LIKE	ECOVERED IZAK	ECOVERING I.	J NECENTOR NO NECK	VERT
	BLDR BLABS BOULDER (>2 BEDROCK [1 COBBLE (65:2	total number of sign [16 pts] 256 mm) [18 pts] 18 pt] 256 mm) [12 pts] 4 mm) [2 pts]	PERCENT	ubstrate pres	ent, Check ONLY to Max of 8) Final me SILT [3 pt] LEAF PACKWOO FINE DETRITUS CLAY of HARDPI MUCK [0 pts] ARTIFICIAL [3 pts	oric score is sum DY DEBRIS [3 ; [3 pla]	PERCENT	HHE Metri Point Substra Max = 4
	Total of Per	centages of	ς	(A)			(B)	A+0
		er, Cobble, Bedroci PREDOMINATE SU		ES:	TOTAL NUM	BEN OF SUBBI	MATE TYPES	
- 644	North nothers	plunge pools from	e meximum po read culvets or	of depth with	n the 61 memor (20)	Vone box):	each at the time of	Pool Dep Max = 3
□ >23	0 cantimeters [30 25 - 30 cm [30 2 - 22.5 cm [35	pts]		Ŕ	> 5 cm - 10 cm [* < 5 cm [5 pls] NO WATER OR		is those in the	5
100	MMENTS_				-CALADO (A) CA	POOL DEPTH	Chiefes 2"	-
	Omaters (> 13) Om - 40m (>	TH (Measured as (10 pts) 0 F + 13 (15 pts) 4 8 7 (29 pts)		S. C.	>1.0m - 1.5m (2 +10m(c337)		feet 21	Bankfu Width
	WHISIPATE.		This	loformullen m	ignes et ocia tru	_		
		ZONE AND FLOR	ODPLAIN QUAL		TE Row Left (L) a		looking downstreams	
Ä	R (Per Ba	ank)	L R		minant per Benk)	L B	Conservation Tillage	
	_	Ne 5-10m	0.0	Immalure Fo	rest Shrub or Old		Urban or Industrial	
	П малтом	<5m	93 (7)		Park, New Field	00	Open Pesture, Row Crop	
	COMVEN	no Pipel	. 80	Fenced Past	nıs	00	Mining or Construction	
	2000000	C.						

ADDITIONAL STREAM INFORMATION (This inform	nallon Must Also be Completed);
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DOWNSTREAM DESIGNATED USE(S)	
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□ cwilltime	Distance from Evakialed Stream
TEVH Name:	Chistance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS. INC	CLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangie Name	NRCS Soil Map Page NRCS Soil Map Stream Order
	Township / Gdy
MISCELLANEOUS	IL LAN
Base Firm Conditions? (VAI) / Dubieffort	medication to 3/ 12/16 County
Photograph Information 4 Protes	(Patron (2) + Brondbaar (2)
Elevates Turbidoly* (YM): N Caraby (%	a moneta
	M state let sample no or id, and attach results) Lab Number
	xygen [mg/l] pH (S U) Conductivity (umhos/cm)
is the sampling reach representative of the stream (Y	(N) 2 !I not please expain
Addbook commentvioescration of polyner imperts	r/A
BIOTIC EVALUATION	
Surface of All Man Barrer of Six	servations. Voucher collections optional. NOTE all voucher samples must be labeled with the s
ID number Include as	opropriate field data sheets from the Primary Headwaler Habitot Assessment Manuel)
Essh Observed? (YAN) Voucher? (YAN)	Salemanders Observed? (Y/N) Voucher? (Y/N) ? (Y/N) Aquatic Macronvertebrales Observed? (Y/N) Voucher? (Y/N)
Frogs or Taignales Observed? (Y/N) Vouclier?	(Y/N) Aquatic Macronverlebrates Observed? (Y/N) Voucher? (Y/N)
Comments Regarding thistogy	
MANAGER SALS	
	DESCRIPTION OF STREAM REACH (This must be completed):
include important landmarks and other leads	ures of interest for site evaluation and a nametive description of the stream's location
Pipeli	
Wettand Non	$\mathcal{L} = \{0, 0, 1, 1, 1, 2, 2, 2, 3, 3, 3, 4, 2, 3, 3, 4, 2, 3, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,$
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	PHWH Form Page : 2
and the second	I POPERATOR AND THE POLICE IN

Stream 30 - Modified Class 1

ADDITIONAL STREAM INFORMATION (TIME)	
QHEI PERFORMED? - 🗍 Yes 💢	No. Offer Scare (If Yes, Atlach Completed Offer Form)
DOWNSTREAM DESIGNATED USE WWH Name COWN Name SWIN Name	
MAPPING: ATTACH COPIES OF MAR	S, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Duadrangle Name	NRCS Soil Map Page NRCS Soil Map Stream Order
County	Territo / Otr
	las Ugstram (2)4 Parmstram (2)
Additional comments/description of pollution	youth AMA
BIOTIC EVALUATION	
Partormeo? (Y/N) (If Yes, Record ID number. The	all roservations. Voucher collections optional. NOTE: all voucher samples must be labeled with the sec thate appropriate Feld data cheeks from the Phonary Headwaler Habitat Assessment Manual).
Fish Observed? (Y/N) Voucher? (Y/N) Vox	Selamenders Observed? (YM)

Include Important lan	AND NARRATIVE DE	SCRIPTION OF STRE	AM REACH (This motion and a number of section and a number of section and a number of section and sect	ust be completed): ption of the stream's location.
FLOW -	The the	b) si	ma C	~~
	*** **	(h)		MP.

Moderate to Savere

	OCATION Access End	63	Do/ED DAS	IN.	ns	IAINAGE AREA (mi²)	
ENGTH OF		LAT.	LONG	RIV		RIVER MILE	
	mplete All Items On This Form				Ohio's PHV	VH Streams" for Instru	uctions
STREAM C	HANNEL DIONE/MAT	URAL CHA	Character	COVERED TRECK	OVERING D	RECENT OR NO RECO	OVERY
SUB	STRATE (Esilmals percent of ever	y type of s	substrate prese	nl Cneck ONLY two	predominant:	subalrate 7 YPE boxes	
	of 40). Add total number of significa						HH Met
	LOR SLABS [16 pls]		PIO	SILT [3 pt]		307	Poir
	OULDER (>258 mm) [16 pis] SEDROCK [16 pt]			LEAF PACK/WOODY FINE DETRITUS [3]		ts]	Subst
	OBBLE (65-258 mm) [12 pls]	*10		CLAY OF HARDPAN			Max
00 0	BRAVEL (2-64 mm) [9 pts]	20		MUCK [0 pte]			17.00
Ø -	SAND (<2 mm) [6 pls]	-751		ARTIFICIAL [3 pts]			1/2
_	Total of Percentages of	6	(A) 1 (A)			(B)	A+1
	Stabs, Boulder, Cobble, Bedrock WO MOST PREDOMINATE SUBS	DATE THE	- 13	TOTAL NUMBER	o or ever	7	
_				0.5802-0.1522-2530	-01 HIS 200 -0	- Inn-source	_
	mum Pool Depth (Measure the mo alion, Avoid plunge pools from road					each at the lime of	Pool D
	centimeters [20 pts]	COINDIS O	Q	> 5 cm - 10 cm (15 p			1
	- 30 cm (10 pts)		- 8	< 5 cm (5 pts) NO WATER OR MO	UET CHANK		125
91. 310	- 22 5 cm [25 pts]	_		animicocopy and a second		3-	-
CON	MENTS			MAXIMUM PO	OOL DEPTH	ocalimotols):	
	K FULL WIDTH (Measured as the	average of	1-4 measurem		k ONLY one		Bank
>40	meters (> 13') [30 pts] m - 4 0 m (> 6' 7"- 13') [25 pts]		M	> 1.0 m - 1.5 m (> 3' ≤ 1.0 m (≤ 3' 3") (5 p		pts]	Wid:
			,		,	3 3	2:0
□ >30	n - 3.0 m (- 4'4' - 9'7') [20 pin]					DTH (garters)	-
30	m -3.0m (+4.6° + F7) [20 pm]			AVERAGE BI			
>30				AVERAGE BI	ANKFULL WI		
>30	M -3,0m (+44°-77) [20 pm]		Information mu	ist also be complete	ıd		
>30	M3.0m (* C.C. P.P.) [Ze ph.] IMENTS RIPARIAN ZONE AND FLOODF	LAIN QUA	LITY ANO	ist also be complete TE River Left (t.) and	ıd	ooking downstream \$*	_
>30	M -3,0m (+44-77)[XVM]	LAIN QUA FLOOD	LITY &NO	ist also be complete TE River Left (t.) and	id Right (R) as l	ooking downstream 🌣	
>30	RIPARIAN ZONE AND FLOODP	LAIN QUA	LITY &NO PLAIN QUALITY (Most Predon Maluje Fores	ret also be complete TE_River Left (L) and f Intent per Bankt I, Welland	od Right (R) as l	ooking downstream@	
>30	RIPARIAN ZONE AND FLOODP RIPARIAN WIOTH RIPARIAN WIOTH RIPER BAND Vivide > 10m	FLOOD L R	LITY &NO PLAIN QUALITY (Most Predom Malure Foxes Immigrare For	ust also be complete TE River Left (L) and I unant per Bankt	id Right (R) as l		
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Contributed 23 INSTREAM COVER indicate presence 0 to 3. 6-Absent; 1-Very small amounts of it more common country 3-highest quality in moderate or greater amounts, but not of inghest quality or in amust amount country 3-highest quality or in amust amount country 3-highest quality or in amust amount country 1 countr	on of marginal AMOUNT of highest Direct Direct Cor 2 & evenger is Marginal Direct Direct Cor 2 & evenger is Marginal Direct Direct Cor 2 & evenger is Marginal Direct Direct Direct Cor 2 & evenger is Marginal Direct Dire
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COMMENT (1) COMMENT (MORPHOLOGY Check ONE in each calegory (0/2 & weep) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY I HIGH (1) GEOCHERT (7) NONE (8) HIGH (2) I MODERATE (2) GEOOD (3) RECOVERIN (3) (3) I NOWE (1) POOR (1) RECOVERIN (1) I NOWE (1) POOR (1)	of rigarian Maximum 20
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LOW[2] FAIR [3] RECOVERING [3] R. LOW[1] NONE [1] POOR [1] RECENT OR NO RECOVERY [1]	
NONE [1] POOR [1] RECENT OR NO RECOVERY [1]	
	Channel II. S
Comments 7 S 3.5	20
I) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 7 per hank & averages
RIPARIAN WIDTH FLOOD PLAIN QUAL	ITV
EROSION	CONSERVATION TILLAGE [1]
☐ NONE / LITTLE [3] ☐ MODERATE 10-f6m [2] ☐ SHRUB OR OLD FIELD [2] ☐ MODERATE [2] ☐ [3] NARROW 5-10m [2] ☐ [3] RESIDENTIAL PARTY, NEW FIEL	
☐ ☐ MODERATE [Z] ☐ ☐ NARROW 5-10m [Z] ☐ ☐ RESIDENTIAL PAPOL NEW FIEL ☐ [B. HEAVY / SEVERE [1] ☐ ☐ VERY NARROW < 5m [1] ☐ ☐ FENCED PASTURE [1]	D [1] D MINING / CONSTRUCTION [0]
NONE [0] OPEN PASTURE, ROWCROP [0	indicate predominant land use(s)
Comments 1.5	Maximum
30.71	
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH CHANNEL WIDTH CURRENT VELOCIT	Recreation Potential
Check ONE (ONLY) Check ONE (Or 2 & average) Check Al, L that apply	Primary Contact
□>1m [4] □ POOL MOTH > RIFFLE WOTH [7] □ TORRENTIAL [-1] □ SLOW [1	Secondary Contact
☐ 0.4-407HE ☐ ☐ POOL WOTH = RIFFLE WOTH[1] ☐ YERY FAST [1] ☐ INTERST ☐ 0.4-407HE ☐ ☐ POOL WOTH > RIFFLE WOTH[3] ☐ FAST [1] ☐ INTERM	TTENT 1.21
□ 0.2<0.4m (1) □ MODERATE (1) □ EDDIES	1) Pool/
[] < 9.2m [0] [/] Indicate for reach - pools and	riffus Current 6
Comments APD: 3'	
indicate for functional riffles; Best areas must be large enough to support	a population NO RIFFLE [metric=0]
of riffle-obligate species: Check ONE (Or 2 & average). RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIF	
RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIF	□ NONE IZI
T REST AREAS 6-10cm P1 KIMAXIMUM < 50cm [1] IR MOD. STABLE (e.g., Lurge Gravel) [1]	□ LOW [1]
BEST AREAS < 6cm UNSTABLE (e.g., Fine Gravel, Sand) [0]	MODERATE (6) RIME
Comments 2	EXTENSIVE [-1] Run

- Modified Class 2	nk-not stone
ADDITIONAL STREAM INFORMATION LTDS: Information Man	Also be Completelly,
QHEI PERFORMED? TYOS THE SCORE	Iff Yes, Aftech Contributed CHEI Form
DOWNSTREAM DESIGNATED USE(S)	
O VAVH Name	Distance from Evaluated Stream
J EW- Name	Distance the Charlest Coras
	HE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	NRCS Soil Map Page NRCS Soil Map Stream Order
Test to a construction of the construction of	Townshia / Ci ,
MISCELLANEOUG	104131107-013
Base Flow Conditions? (YAN: // Date of last precipitation	3/11/16 Quantity
Phetograph Information	
Elevated Tultidity* (YPA) Canopy (% open)	REP _
Nere samples collected for water chamistry? (YAL) [No	a lab sample no of to and ettach results) Lab Number
Field Measures Temp (PC) Dissolved Oxygen (http://	pH+S U) Conductivity (pmhos/em)
is the sampling reach representative of the stream (YA4)	If not piepse excivin
Additional continents/description of pollution impacts	
ID named a find of appropriate fi	roughe custorious optional. NOTE all couches complete must be blacked with the cite to duct shrold beautiful and the cite to the couches complete must be does Observed? (ONL
DRAWING AND NARRATIVE DESCRIP	TION OF STREAM REACH (This must be completed):
Include Important landmarks and other features of inter	est for sile evaluation and a narrative description of the stream's (acation
	11 6.2
FLOW -	7
as the	
	Ψ.
1 1	No
	Every leave 1 Const. 2

METHOD: STAGE

| MAKE | Control | Stage | Control | Cont

LENGTH OF STREAM STRACH IS DETE 0 328 SCORES NOTE: COMPlete All Itemse STREAM CHANNEL MODIFICATIONS:	In This Form - Refer to Thome Finance Plan To Long. The Long of the Person of the Pers	Substrate present at types found (Ma	I, Check ONLY IND (I, Check ONLY IND (I, Check ONLY IND (I) Check ONLY IND (I) EAST PACKWOODY IND DETHILUS DI LLAY OF HARDAN MUCK (B) pla] TOTAL NUMBE the 61 motor (200 ft (I) Check ONLY (I) Some 10 on INLY (I)	predominant sulf score is sum of pEBRIS (3 pts)	DATE TYPES:	HHEI Metric Points
(Max of 40). Add total nurr TYPE BLDR SLABS [18 pts] BULDER (>256 mm) COSBLE (6>256 mm) COSBLE (6>256 mm) COSBLE (6>256 mm) Total of Percenlage Bld Slabs, Boulder, Cook BCORE OF TWO MOST PREDOM 2. Maximum Field Depth (M	per ol significant substrate PERCENT [18 pls]	(A) (PE) (A) (PE) (A) (PE) (A) (A) (A) (A) (A) (A) (A) (ix of 8), Final metric iiLT [3 pt] EAF PACKWOODY INFO DETHILUS [3 pt] LAY & HARDPAN IUCK [0 pte] TOTAL NUMBE	score is sum of DEBRIS (3 pts) [0 pt] R OF SUBSTRA t) evaluation reacone box)	PERCENT 225 1 5 (B) ATE TYPES:	Metric Points Substree Max = 46 Z A + B
2. Maximum Fool Depth of wobstation. Avoid plants > 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts] > 40 - 22.5 cm [25 pts]	INATE SUBSTRATE TY	PES:	the 61 meter (280 ft) (Check ONLY)	i) evaluation read one box)		
COMMENTS			< 5 cm [5 pts] NO WATER OR MO		missi 3"	15 15
3. BANK FULL WIDTH (Me: >4.0 meters (> 13°) [30 pis] >50 m -40 m (>6°7"-12 >16 m -30 m (>4°6"-6° COMMENTS	r) [25 pts]		nis) (Chec > 1.0 m - 1.5 m (> 3* s 1.0 m (s ১* 3*) (ড চ	k ONLY one bo	Dat 21	Bankfu Width MaxxX
RIPARIAN ZONE RIPARIAN WIDT R (Per Banh) Wide >100 Wide >100 None COMMENTS	AND FLOODPLAIN QUA	ALITY ANOTI DPLAIN QUALITY (Most Predomin Mature Forest, Immalure Fore Field Residential, Pa	Weltand sl. Shrub or Olo irk, New Field	Right (R) es los	oking downstreams Conservation Tilinge Urban or Industrial Open Pasture, Row Crop Mining or Construction	
FLOW REGIME (A Stream Flowing Subsurface flow with COMMENTS	Al Time of Evaluation) (I	richnicht	Most Charv	l, no water (Eph	is, no Sow (intermition) emeral)	1
☐ None ☐ 0.5 STREAM GRADIENT E6	ber of bends per 61 m (2 1.0 1.5 TIMATE		∏ 1 25	П	3.0	
□ Flat (e.s. service) □ Flat (e.	Moderate (3) Mo	PHWH Form P	Moderate	la Severe	∏ Secentil a	

AH-MOT-03:816-14

HH-		RIVER BASINDRAINAGE AREA (mi²)
DATE	03/28/6 BOORER MOT/BOR COMM	
тои	E: Complete All Items On This Form - Refer to "F	"Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
	EAM CHANNEL ON NONE / NATURAL CHANNI	NEL DE RECOVERED TRECOVERING TRECENT OF NO RECOVERY
_		strate present. Check ONLYtwo predominant substrate 7YPE boxes
	(Max of 40) Add total number of significant substrate type	/pes found (Mex of 6) Final metric score is sum of boxes A & B
TYP	BLDR SLABS [16 pls]	SILT (3 pt) /5 Poin
85		LEAF PACKWOODY DEBRIG [3 pls] 1/D Substi
		CLAY OF MANDPAN (0 KG)
	GRAVEL (2-84 mm) [9 pts] 3(2)	□□ MUCK (0 pls) 76
(XI)	SAND (<2 mm) [6 pts] 40	O ARTIFICIAL (3 pis)
	Total of Percentages of (A Bidr Slabs, Boulder, Cobbie, Bedrock 5	A) [C A+B
BCOR	E OF TWO MOST PREDOMINATE SUBSTRATE TYPES:	TOTAL NUMBER OF SUBSTRATE TYPES
2	Maximum Pool Depth (Weasure the maximum pool d	depth within the fit mean (200 ft) evaluation much at the time of Pool Di
O	evaluation. Avaid plunge pools from road culverts or alto > 30 centimeters [20 pts]	orm water pages) (Check DN; V one hout: Max =
9	> 22.5 -30 cm (30 pts)	S <5 cm (5 pm) NO WATER OR MOIST CHANNEL TO PM)
1.1	> 10 - 22.5 cm [25 ph]	Michel /
	COMMENTS	MAXIMUM POOL DEPTH (control of the state)
3	BANK FULL WIDTH (Measured as the average of 3-4	4 measurements) (Check ONLY one box): Bank!
Н	> 4.0 meters (> 13') [30 pte] > 3.0 m - 4.0 m (> 6' 7" - 13') [25 pte]	S < 1.0 m (> 3 3") [5 pts] 49100 Mare:
	> 1 5 m - 3 0 m (> 4'8" - 9'7") [20 pts]	a.t 100 5
	COMMENTS	AVERAGE BANKFULL WIDTH (Shelese)

00	Conservation Tillage Urban or industrial Open Pesture, Row Crop
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Stream	34	-	Modified	Class	2	

	IN MOT 037816-14
ADDITIONAL STREAM INFORMATION (This Info	rmation Must Also be Completed):
QHEI PERFORMED? - TYES ZO NO	OHEI Scare (If Yes Altach Completed QHEI Folm)
DOWNSTREAM DESIGNATED USE(\$)	
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	NCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JEGS Duscharge Name	NRCS Soil Map Page NRCS Soil Map Stream Order
County	
MISCELCANEOUS	1 processor 63/22/15 (Early 15) ?
Bene Flaw Conditions? (Y/N): N Dale of les	t precipitation CF3/ FE/ F) Outvilly
Photograph Information: 2 / Pullus	Martina + thunsteam
Elevated Turbidity' (VIII) // Canopy	
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Fleid Measures Temp (*C)Dissoved	Oxygen (mg/l) pH (S U) Conductivity (µmhos/cm)
	(YN) / Unot please explain
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Additional commensuspency (co. or polution impai	10 al/B
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DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
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Stream 36 - Modified Class 1

COMMENTS

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): OHEI PERFORMED? Tyes TANO OHEI Score ____

		COMMENTS_	Disterritter !!	ER CODE	RIVER MILE	
			RECOVERED REC			
	UBSTRATE (Estimate percent of events of 40% Add total number of significations). Add total number of significations are seen as a second of the second of th	ini substrate types town ERCENT TYPE COLUMN TYPE COLUM	d (Mex of 8). Finel metric SILT [3 pt] LEAF PACKWOODY FINE DETRITUS [3 CLAY or HARDPAN MUCK [0 pts] ARTIFICIAL [3 pts]	score is sum of t DEBRIS [1 pte] pts]	PERCENT	HHE Metri Point Substra
2. M	laximum Pool Dapih (Measure flier measures), Audi princip pools floris took 20 cestimates (30 pts) 10, 22 5 - 30 cm (30 pts) 10, 22 5 cm (30	eximum pool depth will a culvents or silvers wellen	thin the 61 nieter (200 fr ppens (Cherk ONLY) * 5 cm - 10 cm (15) * 5 cm (5 pm) NO WATES OR MA	b) evaluation read one box) pla] DOL DEPTH (each	th et the time of	Pool De May 2:
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	RIPARIAN ZONE AND FLOODP RIPARIAN WIDTH R (Per Bant) R (7) Wide > 1 cm Moderate 5-10 m New 45 m COMMENTS	FLOODPLAIN QUAL L R (Most Pred Meture Fo	somunani per Banki rest Welland Forest Shrub or Old 1. Park, New Field	Right (R) as look	conservation Tillage Internet industrial Open Pasture, Row Internet industrial Open Pasture, Row Internet industrial Open Pasture industrial	
Č	FLOW REGIME (AT Time of Evel Stream Rowing Duby Tate For a point a period of COMMENTS	ts chitecolitics	Moist Chann Dry channel,	, no water (Epher	;, no flow (Intermittent) meral)	ē D
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HHEI Score (sum of metrics 1, 2, 3): HH-MDT-032816-13 SITE NUMBER RIVER BASIN ERAFLAGE AREA (mi²) HEMOTI GRANINE AND THE PROSPECT OF THE PROSPEC NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohlo's PHWH Streams" for Instructions STREAM CHANNEL ON NO NECOVER CHANNEL FRECOVERED RECOVERING RECENT OR NO RECOVERY MODIFICATIONS: Within Toline ROW SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominent substrate TYPE boxes (Max of 40). Add total number of significent substrate types found (Max of 8). Final metric score is sum of boxes A & B. PERCENT SILT [3 pt]
LEAP PACKWOODY DEBRIS [3 pto]
FINE DETRITUS [3 pts]
CLAY OF HARDORN [9 pt]
MUCK [0 pts]
ARTIFICIAL [3 pts] PERCENT 72 Total of Percentages of Bids Rabs, Boulder, Cobble, Bedrock 70 (A) SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: (B) TOTAL NUMBER OF SUBSTRATE TYPES: A + B

Maximum Fool Depth (Measurer the ressimum pool depth within the 61 motor (20 00 evaluation reach at the time of neurostan. Avoid plange peaks from read quitwerts or shorn water (spes). (Check ONLY on box). 30 centilinated (120 pt.). 5 cent. 10 cm (15 pt.). 20 centilinated (120 pt.). 5 cent. 10 cm (15 pt.). 20 cm (15 pt.). 10 cm (15

ChieFPA Primary Headwater Habitat Evaluation Form

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MAXIMUM POOL DEPTH (centimeters):

 	BANK FULL WIDTH (Measured as > 4.0 meters (> 13) [30 pte] > 3.0 m - 4.0 m (> 6'7" - 13') [25 pte] > 1.5 m - 3.0 m (> 4'8" - 9'7") [20 pte		a average of 3-4 measurements (Check ONL Y one box); > 5.0 m - 1 5 m > 7.5" - 4.8") [16 pix] < 1.0 m (5.73") 5 pixe					
	RIPARIAN ZONE AND FLO	ODPLAIN QUA	information <u>must</u> also be complete UTY ONOTE: River Let (L) and		ooking downstream \$			
	L R (Per Bank) Wide > 10m	àå	(Most Predpowent per Bank) Mature Fitnesi, Watland		Conservation Tillage			
	Modernie 5-10m	风风	Immature Forest Shrub or Old Field	00	Urban or Industrial			
	□ □ Narrow <5m		Residential Park, New Field	00	Open Pesture, Row Crop			
	None COMMENTS		Fonced Pasture	00	Mining or Construction			
	FLOW REGIME (At Time of Stream Flowing Stream Flowing COMMENTS.		Moist Chann	el isaleled p no water (E	ools, no flow (intermittent) phemeral)			
	SINUOSITY (Number of ber	da per 81 m (20 1.0 1.5	0 ft) of channel) (Check DNLY one i	box)	3.0 3.3			
ØΕ	STREAM GRADIENT ESTIMATE	o □ Mode	erale (2 kH, lo 1)	o Sevice	Beside : sine			

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Modified Class 1	MADE OF
ADDITIONAL STREAM INFORMATION (This Inform	ration Must Also be Completed)
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	CLUDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE LOC
	NRCS Sol Map Page NRCS Soil Map Stream
	Township / City.
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Wate an Tales collected for water chemistry? (Y/N)	M
	cygen (mg/s)pH (8.0.1)Conductivity ((conductivity)
is the sampling reach representative of the stream (Y.	
is the sampling reach representative or the arrestory (in	M)_Z_ Indexpesse to
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NAME OCATION
LENGTH OF STREAM REACH IN 150 H. I.N. LONG RIVER CODE REVER MILE DATE 03/28/16 SCORER POR/OCC COMMENTS EQUIPMENT
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
STREAM CHANNEL O NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY
SUBSTRATE (Estimate percent of swery type of substrate persent, Check ONLY type predominant substrate TYPE boxes (Max of 40), Add total number of significant substrate types found (Max of 6). Final metric score is sum of boxes A.8. HHEI TYPE TYPE TYPE
BLDR SLABS [16 pls] DE SILT[3 pt] 90 Points
□□ GRAVEL (2:64 mm) (8 pts) 10 □□ MUCK (0 pts) 13 □□ MUCK (0 pts) 13 □□ ARTIFICIAL (3 pts) 13 □□ ARTIFICIAL (3 pts)
Talal of Percentages of Bldr Stabs Boulder, Cabble, Bedrock (A) (A) (B) (A) (B) (B) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A
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evel usino. Audio plump pools from road culvers or stemmuster special. (Check CMX strate book: 3.00 certificates [12 pts] 3.00 certificates [12 pts] 4.00 certificates [12 pts] 5.00 certificates [12 pts] 5.00 certificates [12 pts]
O > 10 - 27.5 cm PS pec
3. BANK FULL WIDTH (Measured as the riverage of 3-4 measurements) (Check OML Y one box): > 4.0 meters (P. 13) (39 pts)
>30m = -10 m 0 f 7 - 137 125 pts]
COMMENTSAVERAGE BANKFULL WIDTH (metucs)
This information <u>must</u> also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ONTE: River Left (L) and Right (R) as looking downstream of
RIPARIAN WIDTH FLOODFLAIN QUALITY L R (Per Benk) L R FV.FX Wide > 10m ☐ ☐ Melture Forest, Welland ☐ ☐ Conservation Thage
Moderate 5-10m Mode
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FLOW REDME (At Time of Evaluation) (Check ONLY one boul Stream Flowing Model Channel, isolated pools, no flow (intermittent) Ory channel, no water (Epitemeral)
COMMENTS
STREAM GRADIENT ESTIMATE Find post point Find to Moderate Description Moderate Description Moderate Description Moderate Description Des
PHWN Form Page - 1
stream 38 - Modified Class 1
Primary Headwater Habitat Evaluation Form
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Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3): HH-MDT-032816-10 SITE NUMBER // RIVER BASIN DRAINAGE AREA (m²) HH-MDT-032816-10 SITE NUMBER // DRAINAGE AREA (m²) HH-MDT-032816-10 SITE NUMBER // DRAINAGE AREA (m²) HH-MDT-032816-10 SITE NUMBER // DRAINAGE AREA (m²)
Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3): HIT NAMELOCATION GOOD AND SITE NUMBER (D. RIVER BASIN DRAINAGE AREA (m²) LEMOTHOF STREAM REACH (M) SOURCE OF DUE COMMENTS DATE () 2 1/2 1/2 SCORER OF DUE COMMENTS
Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3): HH-MDT-032816-10 SITE NUMBER // RIVER BASIN DRAIMAGE AREA (m²) LENOTHOF STREAM REACH (S) 150 // CAT COMMENTS RIVER CODE RIVER MILE DATE // 2/2 // CAT COMMENTS DATE // COMMENTS COMMENTS STREAM CHANNEL O NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY
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PHWH Form Page - 1

Charpa Primary Headwater Habitat Evaluation Form
HHEI Score (sum of metrics 1, 2, 3):

AUDI LEULDIGHEOL = T	Yes No OHEI Score(ITYes, Allach Completed OHE; Form)
DOWNSTREAM DESIGNAT	ED USE(S) Distance from Evaluated Stream
CWH Name	Distance from Evaluated Stream
DEWH Name	Distance from Evaluated Stream
	S OF MAP9, INCLUDING THE <u>entire</u> watershed area. Clearly mark the site location
ISGS Quadrangle Name	NRCS Sol Map Page NRCS Sol Map Stream Order _
	Township / City
MISCELLANEOUS	Date of last procession 0 3/ 1/25 Sunsay 3 House
Base Flow Conditioned (VAL)	Casts of last precipitation 0 3/ 1/15 Quantity 116-513
thetoprach Information 2 P	holes, apition + Powerters
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:levared (utblodly" (Y/N).	Canada Anna Canada Cana
	mistry? (Y/N) N (Note lab sample no of id and attach results) Lab Number
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Performent 17th.	ner? (VR)

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	Distance from Evaluated Stream
ADDITIONAL STREAM INFORMATION THIS Information Must Also us Completed: QHEI PERFORMED? - Yes	
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	Townshir / City
MISCELLANEOUB ,	(Enchald)
Base Flow Conditions? (YAN). N Dale of its	ast precipitation 03/28/16 Quantity ?
Doctor are Information: 2. P.S.	Hostream , Poss steam
Floored Turb db (VN) N Caree	Ch open Z D
Tame (IC) Diseases	of Charges (mod) pH (S U) Conductivity (umhos/cm)
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is the sampling searn rapivesentative or the swear	n(III)
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TO SAME AND MADE AT THE	TO DESCRIBITION OF STREAM BEACH (This must be complete
Include important landmarks and other	features of the extension of a late example of a narrative description of the stream
(11)	

sistem er	ECOCATION	6=AHo	$Bs = T_{abb}$	Time:	HHEI Score	(sum or me	uics 1, 2, 3) .	
		9 BITE NUMBER		NIVER IN	Spire	DR/	NINAGE AREA (m²)	
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		BOORER OF THE			Carena			
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	BEDROCK	[16 pt]			FINE DETRITUS [3		" ===	Bubs
		-255 mm) [12 p(s] 54 mm) [9 p(s]	10	0.0	CLAY or HAROPAN MUCK [D pls]	[0 br]		
ØJ.	SAND (<2 mg		40	55	ARTIFICIAL (3 pts)			1
		rcentages of	5	(A)			(B)	At
		lei, Cobble, Bedrock_ PREDOMINATE SUB		-1	TOTAL NUMBE	R OF BUBSTE	ATE TYPES:	
	The state of the			250	in the 61 meter (200 f			Pool
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	22 5 - 30 um (3			9	* 5 cm - 10 cm [15 < 5 cm [5 pts]			1
7 >	to - 22.5 cm [2	Speci			NO WATER OR M	DIST CHANNE	Product 1"	-
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0 >	5m - 3.0m (>	4'8" - 9 7") [20 pts]					21	
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	FLOW RI	EGIME (At Time of Ev	eluation) IC	neck OWLY o	resour			
2	Stream Flo				Moist Chan	net_isolated por Lino water (Epi	ols, no flow (intermittent)	
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				n fil of change	el) (Check ONLY one	box)		
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Stream 40 - Modified Class I					
ChieFA Primary H	leadwat	er Habitat Evalua HHEI Score (ation F	orm etrics 1, 2, 3) :	19
HH-MDT-032916-01 SITE NUMBER LENGTH OF STREAM REACH (1) 2-044 DATE 1/3/2-1/16 SCORER 1-01/16/1) / F	IVER BASIN	DR CODE	AINAGE AREA (ml²) RIVER MILE	
NOTE: Complete All Items On This Form	- Refer to "F	ield Esuluation Manual for C	Ohio's PiM	74 Streams" for Instru	ctions
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RIPARIAN ZONE AND FLOODP RIPARIAN VIOTH R (Per Back) Mode-vion Moderate 5-from Namov - Son None COMMENTE Speciment	LAIN QUALITY FI.COOPPLAI L R (W	N QUALITY ross Predominant per Bank) sture Forest, Wotland malure Forest, Shrub or Old old sesidential, Perk, New Field stee Person		Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction	
FLOW REGIME (At Time of Evel: Stream Flowing Subsurface flow with isolated pool		(ONLY one box): Marst Chann Dry channel,		ools, no llow (intermittent) phemeral)	

Color Name	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream Distance Lone Evaluated Stream WATERSHED AREA. CLEARLY MARK THE SITE LOCATION 35 Sof Map Page NRCS Sol Map Stream Crote: Cty Outstance Place Critic and effect results) Lab Number pt-(8 U) Conductivity (umhor/cm)
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omments Regarding Biology	
DRAWING AND NARRATIVE DESCRIPTION OF	STREAM REACH (This must be completed):
Include Important landmarks and other transper of inceresi for sile	
2-2 1	M. O.
(VI)	
11/ 200	1 100 3 1
1/ 1/2 1	1 1 2
and a	
101-09	
"	H 20 10 10 10 10 10 10 10 10 10 10 10 10 10
An 100	(1)
6.77	1 1
NIF:	I. J.C.
9.	
Plawer Com	n Page - 2
Early Add Small	

Stream 40

Modified Class I	JH NOT-63214+01
OD/TIONAL STREAM INFORMATION (TINS	Jacomatine Munt Alian be Completed).
QHEI PERFORMED? - 🗍 Yes 🗇	No. QHEI Score (II Yes, Allach Completed GHEI Form)
DOWNSTREAM DESIGNATED US	E(S) Distance from Evaluated Stream
WWH Name:	Distance from Evaluated Stream
J CV/H Name	Distance from Evaluated Stream
	PS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SIZE LOCATION
	NRCS Soil Map PageNRCS Soil Map Stream Order
	Tourship / City
MIDCELLANEOUS	
	ollast and control /13/78/16 Quantity ?
	, lystian i la itean
Fevaled Terbiory/FryiN) _A/ Cm	opy (Ni open) 10
Version pieces to be seen and the serion of	YON INde lat compre no or a see alloch results) (ah Namahar
reld Massures Temp (*Ci Disso	Nert Oxygen (migh) bH (5 U) Conductivity (pinhos/cm)
	eam(YA.) / If not please ***
3 III 32 I FRINGICE OF TABLES	(10)
	246
Additional comments/description of solution in	needs. Uff
BIOTIC EVALUATION	
	all diservations. Visiting company that it is NOTE all voucher complex must be labeled with the
Drube is	and copy spinors. Said data sheets flore the Promary Handwater Habiter Aborroment Manual)
esh Observed? (Y/N) Voucher? (Y/N)	Salamanders Observed? (Y/N) Voucher? (Y/N)
rogs or Tadpoles Observed? (Y/N) Vo.	ucher? (7/N) Aquatic Mecroinvorlebrates Goserved? (Y/N) Voucher? (Y/N)
Commercia Regarding Biology	
DRAWING AND NARRAT	TIVE DESCRIPTION OF STREAM REACH (This must be completed):
toolude important landmarks and ofte	r features of interest for sito, evaluation and a narrative description of the stream's location
()	The Art POW
	Wary (1)
0	-W7 11
/h	(III)
FLOW →	1
-LLOW -	An N
al.	* (7) 1
)-	
1	

PHWH Form Page - 1

STREAM GRADIENT ESTIMATE

| Fiel (0.5 4/100 a) | Fiel to Moderate

LENGTH OF STREAM REACH (8)	4H-MOT-033	CATION 6 and App. 1916-02 SITE NUMBE	R A 2	RIVER BASIN	i Score (su		INAGE AREA (mi ⁻¹)	
File	ENGTH OF ST DATE _ ^ 3 / NOTE: Com STREAM CH	PLEAM REACH (A) 100 24/16 SCORES (107) plate All Items On This ANNEL NONE	IRIR CON FORM - Refer to /NATURAL CHAN	VENTS CONTROL OF THE	Manual for Or	no's PHW	d Streams" for Instru	
Maximum Pool Digith Resource the Australian pool depth writine the 6f meant (200 fill evaluation reach at this time of evaluation. Assist glusses pools from road activets or starm water players (Check ONLY one boot)	TYPE TYPE	(40) Add total number of si DR SLABS [18 pts] NULDER (+255 mm) [16 pts] DROCK [16 pt] DBUL (50-250 mm) [12 pts] RAVEL (264 mm) [5 pts] NND (<2 mm) [6 pts] Total of Percentages of 10 pts, Boulder, Cobble, Bodr	PERCENT 10 10 10 10 10 10 10 10 10 1	TYPE OLITO CLAY FOR CO. CLAY FOR CLAY FOR CO. CLAY FOR CO	ETRITUS DI AN *** HARDRAN (0 (6 pts) CIAL (3 pts)	ERRIS (3 pt s) p()	PERCENT 4.0 S	HH Met Poi Bubs Mes
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (* 13) [39 [14]	2 Maxin	num Pool Depth (Measure: tion: Avaid plungs pools fro	the marinens and	of depth within the 61 storm water pipes)	CHEEK OAF LOU	e DUM	ach at the time of	Pool I
### REGAME (AT Time of E-valuation) Check ONLY See Bask	7 × 10 -	- 30 cm (30 pts) 22 5 cm (25 pts)			m (5 plu) VATER OR MOR	IT CHANGE	Jordan O'	C
REACHAN WIDT: FLOODE/AIN QUALITY Pure Plant R. R. R. R. R. R. R. R	COMI 3. BAN) 3. >4.0n 3. >3.0n 3. >4.0n 3. >1.6n	- 30 cm (30 pts) 22 t cm (23 pts) 4ENT5	6	3-4 measurements)	m [6 ph] WATER OR MO!! MAXIMUM PO((Check m - 1.5 m (> 3'3') [6 pte	ONLY ON P	particular property (1)	Barry Win
Neurous <	COMI 3. BANN 3. > 4.0m 3. > 1.5m 3. > 1.5m	-30 cm (24 pts) 22 5 cm (25 pts) 4ENT5 FULL WIDTH (Measured cloter (> 13) (30 pts) 1 - 4.9 m (> 8'.7' - 13) (25 pt) - 3.0 m (> 4'.8'' - 8'.7') (20 pt) MENT8	el sid	3-4 measurements) > 1.0 × 1.0 × 1.0	MAXMUM POO MAXMUM POO MAXMUM POO M - 1.5m (> 3'3') [6 pre AVERAGE BAI	ST CHANNE OL DEPTH (ONLY ONe 1 *- 4'87 [15 ()]	Gett 11	Wi
FLOW REGAME (All Time of Evaluation) (Check ONLY 60% Bas) Stream Flowing Stream Flowing Comparison for with incident pools (Interetities) COMMENTS Buttless for with incident pools (Interetities) COMMENTS Buttless for with incident pools (Interetities) COMMENTS Buttless for with incident pools for fit in (200 ft) of channel) (Check ONLY one box)	N10 -	- 30 cm (30 pts) 22 t - m (27 pts) 4ENTS (FULL WITCH (Measured to the control of	This is a coordinate of the co	3-4 measurements) 3-4 measurements 3-10 5-10 5-10 5-10 6-10 6-10 7-10 7-10 7-10	MATER OR MONING PLAN (Check m - 1.5m (> 3'3') [6 per AVERAGE BAI a be completed ver Left (L) and R over Bank) and and over Bank)	ST CHARGE DL DEPTH ONLY one b 4'87 [15 q] NKFULL WI	Conservation Tillage Urban or industrial	Wi
Check ONLY one box):	COMI BANN A.D. PA.O. 24.0 n > 20 m COMI COMI	- 30 cm (30 pts) 25 t = (27 pts) 4ENTS FFULL MIDTH (Measured to the control of	This Coopplain Qual	3-4 measuraments) 3-4 measuraments □ > 1.0 ⊠ ≤ 1.0 Information <u>must</u> als ITY ANOTE: Re- ZNN QUALUT; (Most Predominant) (Most Predominant) Field Residential, Park, N	MATER OR MONING PLAN (Check m - 1.5m (> 3'3') [6 per AVERAGE BAI a be completed ver Left (L) and R over Bank) and and over Bank)	ONLY one to CONTROL OF THE CONTROL OF T	pooling downstreams Conservation Tillage Urban or Industrial Open Pasture, Row Crop	Wi
Nane	S19- COMM BANK S S S S S S S S S	- 30 on 150 pts] 25 to 150 pts] 25 to 150 pts] 25 to 150 pts] 4ENTS FPULL WIGHTH (Measured of the color of t	This is a complete of the state of Evaluation)	A-1 measuraments 100 measurame	If Selan is selected and in the complete of th	T CHARLE OL DEPTH (ONLY One 1:4-87 [15 6] NKFULL WII L R	Conservation Tillage Urban or Industrial Copen pasture, Row Crop Mining or Construction	Wild Max

Stream 42 - Modified Class II

		Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):	55
	OCATION Grant Hyze - / 12916-03 BITE NUMBER	0 3 RIVER BASIN CRAINAGE AREA (m/)	
	STREAM REACH (N) 600H		
	12/16 SCORER MOTTO		
NOTE: Co	mplete All Items On This Form	m - Refer to "Field Evaluation Manual for Ohlo's PHWH Streams" for i	nstructions
STREAM CH		TURAL CHANGE B RECOVERED. SECONDRING PRECENT OR NO	RECOVERY
MODIFICAT	HONE: Pipeline/1	Trans. RDW + Stream Ford	
s. sue:	TRATE (Followin name) of our	ary type of substrate present. Check ONLY two predominant substrate TYPE boxe	5 1
(Max	of 40). Add tolat number of significa	cant substrate types found (Max of 8) Final metric score is sum of boxes A & B	HHEI
TYPE B	LDR SLABS [16 pts]	PERCENT TYPE PERCENT	Points
	OULDER (>258 mm) [16 pts]	LEAF PACKWOODY DEBRIS [3 pts]	Substrat
	EDROCK [16 pt]	1.5 CLAY OF HARDPAN [0 pt]	Max = 45
□ (Ā G	RAVEL (2-84 mm) [9 pte]	30 DD MUCK [0 pte]	20
	AND (<2 mm) [8 pts]	30	_
Blor S	Total of Percentages of Slabs, Boulder, Cobbie. Bedrock	15 (A) 15	A+ B
	WO MOST PREDOMINATE SUBS		
2. Mast	mum Foot Depth (Measure the m	naximum pool depth within the 61 mean (200 ft) evaluation reach at the time of	Pool Dep
	ation. Avoid plungs pools from rose entimeters [20 pts]	uf culveris or storm water pipes) (Chers CM, Yone box):	Max = 30
D > 22.5	- 30 cm (30 pts) - 22 5 cm (25 pts)		1 20
	MENTS	MAXIMUM POOL DEPTH (carllocaters):	<u>" </u>
-		THE STATE OF THE S	Bankhul
O >4.0r	K FULL WIDTH (Mensured an the neters (> 13') [30 pis]	> 1.0 m + 1.5 m (> 3' 3" + 4' 8") [15 pte]	Width
	n - 4 0 m (> 9' 7" - 13") [26 pts] n - 3.0 m (> 4' 8" - 9" 7") [20 pts]	☐ ≤10m(x 237)[5 pte]	Max=30
	MENTO	AVERAGE BANKFULL WIDTH INTERNAL	1/5
Com	MERIC	Natives are the transfer and the transfer and the transfer are the transfer and the transfer are the transfe	
		This information must also be completed	
	RIPARIAN ZONE AND FLOODS RIPARIAN WIDTH	PLAIN QUALITY & NOTE. River Left (L) and Right (R) as looking downstreams FLOODPLAIN QUALITY	2
46	(Per Bank)	L R (Most Predominant per Bank) L R Majure Forest, Wetland Conservation Tilia	
0.0		Immelure Forest, Shrub or Old	•
	_ (nodulate a 14m	GO Commented Date Non-Knoth GO Copiet Passives, Ros	
00.0	Nerrow 45m	DD Fencest Payture / _ DD /Majang or Cognitive	chon
Ø1.0			
-	COMMENTS CONCERNS		
-	FLOW REGIME (At Time of Eva	alustion) (Check ONLY one box):	
-	COMMENTS CLONICAL	Moist Channel, isolaled pools, no flow (Intermit	itent)
-	FLOW REGIME (At Time of Eval Stream Flowing	Moist Channel, isolaled pools, no flow (Intermit	itent)
-	FLOW REGIME (At Time of Eve Stream Flowing Subsurface Dow with Isolaled poor COMMENTS	de (Intersitial) Most Channel, isolated pools, no flow (Intermit Dry channel, no water (Ephemeris) per 61 m (200 ft) of channel) (Check ONLY one box):	itent)
-	FLOW REGIME (At Time of Eva Stream Flowing Subsurface Dow with Isolaled poor	Moiat Channel, isolaled pools, no flow (Intermit Dry shannel, no water (Ephemeral)	itent)

PHWH Form Page - 1

Completed OriEl Form)
Congress Crist Ports
Distance from Evaluated Stream
Distance from Evaluated Stream
Distance from Evaluated Stream
REAL CLEARLY MARK THE SITE LOCATION
ge NRCS Soil Map Stream Order
Quantity
ENAM .
ed M
a altech results) Leb Number
Conductivity (µmhos/cm)
and the control of th
NOTE: all souther sent the intention by labelled with the my translation riability Assessment Manual)
Voucher? (Y/N)
Observed? (Y/N) Voucher? [Y/N]
EACH (This must be completed):
a narralise description of the stream's fecun-
191
-
1
10
th 1
1
1

Stream 42 - Modified Class II

DDITIONAL STREAM INFORMATION (This Information			
QHELPERFORMED? - TYOS TO QH	El Score	(If Yes, Allach Comple	eled QHEI Form)
D GWM Rampe		Distanc	e from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCL.			
/SGE Outdrangle Name	NRC	S Soi Map Page	NRGS Sail Map Stream Older
County	Township / C	City:	
Elevated Turbodity? (Y/N)// Compy (N of More samples collected for water chemistry? (Y/N)/	Marken 35%	ole no or id and allect	
rield Moasures Temp (°C) Dissolved Oxyl is the sampling reach representative of the stream (Y/A	geh (mpA) i)/ Il not pleas	рн (8 и) (conductivity (Limbos/etn)
BIOTIC EVALUATION Performed? (YRI): (If Yes, Record all observing on the performed of the performance of the	vetions. Vaucher cole	ections upbonal NOTE els from the Printary Rea	all voucher samples must be labeled with the old dwater Habitat Assassment Manual)
Fish Observed? (YM) Voucher? (YM) Frogs or Tadpoles Observed? (YM) Voucher? (V Connects Regis mis Bodgy	Salamanders Cosen (7N) Aquatic Ma	ved? (Y/N) Vous serosnvertebrates Obser	her? (YM)Voucher? (YM)
DRAWING AND NARRATIVE DE sechole important productives and effort feedure.	ESCRIPTION OF its of induced for site	STREAM REACH	(This <u>must</u> be completed): silve description of the stream's ineaction Global Type

	, Box	SC R	38	
O	EC.		7	

Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI	Score	65.5
	Dala:	41 743 de

□ BOULDER (I) □ LE IN (US 2) □ WEILANDS (E) SLIT □ NORMAL (E) □ GRAVEL (F) □ LE IN (US 2) □ LE IN (US	Stream & Location:	GH-Harris			HW.		47 BO
SUBSTRATE Clock OVEX You substant TYPES EDITES				II Namo & Affiliation:		Erner, Decer	e)
BEST TYPES POOL RIFFLE O'HER TYPES POOL RIFFLE O'HER TYPES POOL RIFFLE O'HER TYPES POOL RIFFLE O'HER TYPES O			CONTRACT THE PARTY OF THE PARTY	at/Long.:	/8		Ascation L.
Comments Coal Fines [-2]	BEST TYPES BEDR /SLABS [10] BOULDER [9] COBBLE [8] GRAVEL [7] SAND [6]	POOL RIFFLE	OTHER TYPES POOL REPARENCE (Score unkned south s	FLE ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] WEANDSTONE [0] PRIMAP [0] COSTUMENT [0]	SILT	QUALITY HEAVY [-2] MORMAL [0] FREE [1] REYENSIVE [-2] HODERATE [-1] NORMAL [0]	Substrate

OVERHANDING VEGETATION [1] RODTWADS [1] AQUA' SHALLOWS (W BLOW WATER) [1] BOULDERS [1] LOGS ROOTMATS [1]	in small arbours of lagrant. Check ONE (Or 2 & average)
Comments	moanion /

3) CHANNEL MORPHOLOGY Check ONE in each category (Cr 2.6 mercy)
SINUDOSITY
SHOULD PRINCE CHANNEL LIZATION
CHANNEL LIZATION
CHORNATE (3)
GOOD (3)
GOOD (3)
GOOD (3)
GOOD (3)
GOOD (4)
GO STABILITY D HIGH [3]

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 7 per bank & armings)

RIPARIAN WIDTH
RIPARIAN Comments

Recreation Potential Primary Confact Secondary Contact

☐NO RIFFLE [metric+0]

indicate for functional nittes: Best areas must be large enough to support a population of rittle-obligate species: Check ONE (07-26 swarps).

Check ONE (07

%POOL: 35 %GLIDE: 15

6] GRADIENT (7.5 (vm) | PERY LOW - LOW [2-4]
DRAINAGE AREA | MODERATE [6-10]
(7.18 (mP) | HIGH - VERY HIGH [10-6]

%RUN: (10)%RIFFLE: 40

Stream 44 - Fair Warmwater

Comments

Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 51 and Use Assessment Field Sheet Stream & Location: GH-Harrison QH-3/23/12-2

AM: ___ Date: 3/ 73/ 06

Stream & Location:	GH-Harrison	CRH-3/23/			PM:	_,_ Date:		
		SO		anye & Affiliation; Long.:	Philip		AFECT	e vention,
River Code:	The second secon	IN TYPE BOXES	man m	Section 2	NE (0r 2 &			Jones of 1
BEST TYPES BLDR /SLABS [10] BOULDER [9] COBBLE [8]	POOL RIFFLE	ora [2] sludge from		ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] GRANDSTONE [0]	SILT	QUAL HEAVY MODER. NORMA FREE EXTENS NORMA NONE	[-2] ATE [-1] L [0]] SIVE [-2] ATE [-1] L [0]	12 African

2] INSTREAM COVER inducte generate 0 to 3. 6-Alleser: 1-Very small accounts or I more occentrate of marginal AMOUNT

guerry 3-Hoffmant (quality a Modelunite amounts, bot inst of large products in the small amounts of highest control of highest control of the small amounts of the sm

Comments 3] CHANNEL MORPHOLOGY Check ONE in worth casegory (Or 2.4 invirings SINUOSITY DEVELOPMENT CHANNELIZATION WHIGH IS DODO [1] OF SINUOSITY DOVE [2] PECOVERNO [4] OF SINUOSITY OF STABILITY

HIGH [3]
MODERATE [2]
CLOW [1]

4) BANK EROSION AND RIPARIAN ZONE Check ONE in mind basegory for EQCH BANK (Or if per teach & average)

RIPARIAN WIDTH

REOSION

RIPARIAN WIDTH

REOSION

MORE/LITTLE (3)

MODERATE (30-500-14)

MODERATE (30-500-14)

RIPARIAN WIDTH

FLOOD PLAIN QUALITY

FLOOD PLAIN QUALITY

MODERATE (30-500-14)

MODERATE (30-

Primary Contact tary Contact

Recreation Potential

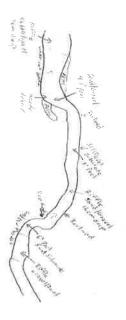
Indicate for functional riffies; Best areas must be large enough to support a population of riffie-obligate apecies: Check CRE (0/-2 £ ayayaya).

| DEST AREAS - 10cm | 2| DAX MUM > 50cm | 2| DAX MUM > 50cm | 3| DAX MUM > 50cm [] NO RIFFLE [metric=0]

Comments 6] GRADIENT (6 6 7 R/ml) UPRY LOW-LOW [2-4]
DRAINAGE AREA UNITY MICH - VERY HIGH [10-6]

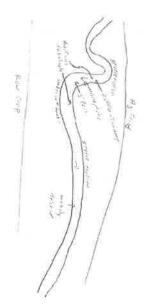
%POOL: SF %GLIDE: SS %RUN: S %RIFFLE: S

Stream 43 - Good Warmwater



E CLARTY
CLARTY 9 500001 □ MUISARE ALGAE
□ MAJASIE AMAGNOPHTES
□ EXCESS TURBUITY
□ DISCOLORATION
□ COLAM SIGNIM
□ COLAM TES HARDERO JUBBAN JORTKAGHRE
CONTAMINATED JANGTHL
BRIND-CONSTTULTION SEDMENT
OGGING J RHGATTON FOOD LIKE
FALSE BANK J MANURE J LAGON
WASH FOT THE HAJ DIBLE
COT MINE! ON HAFT J LAGON
WASH FAJ THE LIKE
AND SERVER SERVER
AND SERVER SERVER
AND SERVER
AND SERVER SERVER
AND SERV F MEASUREMENTS
F dupth
max depth
t shortful from
bandrul from the form
N WD ratio
N WD ratio
N thought max depth
floodprose 2 width
tentruch, nico

Stream 44 - Fair Warmwater



DRAINAGE		1		
	FLOOD CONTROL / DRAINAGE	POOL: ->100ft2 ->3h	CJ REC	☐ 10%~<30%
URED N	ARMOURED / SLUMPS ISLANDS / SCOURED	☐ SLUDGE DEPOSITS ☐ CSOs/9SOs/OUTFALLS	and em	30%-65%
JTOFFS STABLE	MOVING-BEDLOAD-STABLE	☐ TRASH / LITTER ☐ NUISANCE ODOR	- cm	CANOPY
SIDED SIDED	LEVEED / ONE SIDED	OIL SHEEN	SECCHI DEPTHO	melers
EMOVED	SPRAY / SNAG / REMOVED	DISCOLORATION	30-70 cm	_
BOH/NA	YOUNG-SUCCESSION-OLD	☐ EXCESS TURBIDITY	20-40 cm	0.12 Km
	PUBLIC / PRIVATE / BOTH / NA	NUISANCE ALGAE	Dr.S 1885 eldings - 1	3
ANCE Circle some & COMMENT	DJ MAINTENANCE	BJAESTHETIC	CLARITY	

WWTP) LGSO'/ NODES / INDUSTRI CONTAMINATED / LANDELL CONTAMINATED / LANDELL CONTAMINATED / LANDELL LOCALING / IRRIGATION / COOLIN BANK / CEROSION / SUPERACE LOCALING / IRRIGATION / COOLIN BANK / CEROSION / SUPERACE LOCALING / IRRIGATION / IRRIGAT E] ISSUES
P / CSO / NPDES / INDUSTRY
DENED / URBAN / DIRTAGRIME
DITAMINATED / LANDFILL
CONSTRUCTION-SEDIMENT F MEASUREMENTS

E width

E X dopth

max depth

bankfull E dapth

bankfull E dapth

WID ratio

bankfull max depth

floodprone x width

AJ SAMPL
METHOD
DE BOAT
DE WADE
DE LINE

HOH HOW وْ محمَّد

SITE HUNGER HH	1/25/IL I RIVER BA	SIN	DRAI	NAGE AREA (ml²)
TH OF STREAM REACH (ft)	AT LOI	NG RIVE	R CODE	RIVER MILE
4/22/16 BENDER Y 3/L	COMMENTS			
TE: Complete All Items On This Form	Refer to "Field Eva	duation Manual for O	hio's PHWH	Streams" for Instruct
DIFICATIONS:	han at substrate pra	can Chark ON Y Wool	redominani su	RECENT OR NO RECOVE
(Max of 40). Add tolal number of significant PE	RCENT TYPE	(MEX DIO). FINE INTERIOR	COIC IS SUIT OF	
BLOR SLABS [16 pis]		SILT [3 pt] LEAF PACK/WOODY I	DERRIS (1 mls	1 -12
BOULDER (>256 mm) [16 pts] BEOROCK [18 pt]		FINE DETRITUS (3 pl		
COBBLE (85-258 mm) [12 pts]		CLAY OF HARDPAN	D pQ	Ir
GRAVEL (2-84 mm) [9 pts]	Z 00	MUCK [0 pts]		
SAND (<2 mm) [6 pln]	7/ 00	ARTIFICIAL [3 pls]		
Total of Percentages of Bidr Slabs Boulder, Cobble, Badrock RE OF TWO MOST PREDOMINATE SUBST	(A) 9	TOTAL NUMBER	OF SUBSTR	ATE TYPES:
> 225 - 30 um (30 phs) > 10 - 22.6 cm (25 phs)	C	<pre>45cm[5pix] NO WATER OR NO</pre>	HT CHANNE	(0 pts)
COMMENTS		MAXIMUM PC		
DANK FULL WIOTH (Massured as the >4.0 mders (> 13) (30 pts) >3.0 m +4.0 m (> 97 - 13) [25 pts] >1.6 m +3.0 m (> 4.8 - 9 7) [20 pts) COMMENTS	sverage of 3-8 measur C		k <i>ONLY</i> one b 3 = 4 87 [15 pl t∗]	(s) F1. (2.5
BANK FULL WIOTH (Massured as the > 40 meters (-13) (20 pte) > 30 m + 40 m (> 97 - 13) (25 pte) > 16 m - 30 m (> 97 - 13) (25 pte) COMMENTS RIPARIAN ZONE AND FLOODP	This information	(Check 1.0 m = 1.5 m (> 3 d 5 d 5 d 5 d 6 d	ANKFULL WID	ox): (a) F1. Z.S
BANK FULL WIOTH (Measured as this - 4 Condurs P 17) (30 ptd) - 4 Condurs P 17) (30 ptd) - 15 m - 2 Dm - 4 m (-9 T - 13) [25 ptd] - 15 m - 2 Dm - 4 m - 7 [20 ptd) - 15 m - 2 Dm - 4 m - 7 [20 ptd) - 10 m - 1	This information	AVERAGE BA STORY (C. 10 of C.	(ONLY one b) 3"-4"87 [15 pi te] ANKFULL WID d Righi (R) as lo	ox): Fl. Z.5 TH (mp/ers)
BANK FULL WIOTH [Measured as the - 4 Condurs P 17] (30 pls) - 4 Condurs P 17] (30 pls) - 15 m - 2.0 m - 4.0 m (- 9" 7" - 13) [23 pls) - 15 m - 2.0 m (- 4" 8" - 9" 7") [20 pls) COMMENTS RIPARIAN ZONE AND FLOODP RIPARIAN WIOTH RIPARIAN WIOTH	This information LAIN QUALITY A FLOODPLAIN QUAL L R (Most Pire	(Check	(ONLY one b) 3"-4"8) [15 pi te] ANKFULL WID d Right (F) as to	oxi: e) Fi
BANK FULL WIOTH (Measured as this - 4 Condurs P 17) (30 ptd) - 4 Condurs P 17) (30 ptd) - 15 m - 2 Dm - 4 m (-9 T - 13) [25 ptd] - 15 m - 2 Dm - 4 m - 7 [20 ptd) - 15 m - 2 Dm - 4 m - 7 [20 ptd) - 10 m - 1	This information LAIN QUALITY & FLOODELAIN QUAL L R (Most Pre- longulare for longulare field	AVERAGE BA AVERAGE BA MUST BISO DE COMPIETE BOOMEN DE CENTRE BENDETE	A OALY ONE DE 33 - 4 - 87 (15 pt 15	oxi: s) F1. (2.5) TH (mg/drs) oxing downstream/ Conservation Tiliage Urban or Industrial
BANK FULL WIOTH [Measured as the - 4 Condurs P 17] (30 pls) - 4 Condurs P 17] (30 pls) - 15 m - 2.0 m - 4.0 m (- 9" 7" - 13) [23 pls) - 15 m - 2.0 m (- 4" 8" - 9" 7") [20 pls) COMMENTS RIPARIAN ZONE AND FLOODP RIPARIAN WIOTH RIPARIAN WIOTH	This information LAIN QUALITY & L R (Most Pire Mature Following Mature Fol	Ments) (Check 10 m - 1.5 m e 3 7 5 p 1.0 m - 1.5 m e 3 7 7 5 p AVERAGE BA MUST also be complete NOTE: River Left (1) and UT Command per Bass) yest, Weters) Forest, Shub or Old In Park, New Field	A ONLY ONE DISTRIBUTION OF THE PROPERTY OF T	oxi: s) F1. C.S TH (mg/drs) Conservation Tiliage Urban or Industrial Opan Pesture, Row Crop
BANK FULL WIOTH Measured as this 14 Conders P 17 (30 phs) 24 Conders P 17 (30 phs) 25 Conders P 18 (10 phs) 25 Conder	This information LAIN QUALITY & FLOODELAIN QUAL L R (Most Pre- longulare for longulare field	Ments) (Check 10 m - 1.5 m e 3 7 5 p 1.0 m - 1.5 m e 3 7 7 5 p AVERAGE BA MUST also be complete NOTE: River Left (1) and UT Command per Bass) yest, Weters) Forest, Shub or Old In Park, New Field	A OALY ONE DE 33 - 4 - 87 (15 pt 15	oxi: e) FI
BANK FULL WIOTH Measured as this 14 Conderse P 17 (30 phs) 24 Conderse P 17 (30 phs) 21 Cm - 24 Cm - 25 Cm -	This information LAIN QUALITY & CODE ANN SUA Resident Resident Fenced P Fenced P Layton) (Check ONLY Layton) (Check ONLY	ments (Checi) 10 m = 15 m ≥ 3 10 m (s 7) m > 10 m ≥ 3 AVERAGE BY amust also be complete NOTE: River Left (1) and ITT complete of the complete set (1) m (s 7) m (s 7) m (s 7) m (s 7) AVERAGE BY amust also be complete NOTE: River Left (1) and ITT complete of the c	(ONLY one b. (ONLY one b. (Spitspits) ANKFULL WID L R	oxi: s) FI
BANK FULL WIOTH (Measured as this - 4 Conderse 1-19 (Dolpe) - 3 On - 4 de in 6-27 - 131) [25 pm] - 1 6m - 3 Om in 4 de in 6-27 - 131) [25 pm] - 1 6m - 3 Om in 4 de in 6-27 - 17 [20 pm] - 1 6m - 3 Om in 4 de in 6-27 [20 pm] - 1 [20 pm]	This information LAIN QUALITY & FLOODE AND COLL R (Ideal Pre-	ments (Check District Profession Check Distr	A ONLY one by Same and Same an	oxi: g) FI
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Stream & Location: <u>GH-Har</u>	retion OH-3/241	Full Name & Affiliation:	M:, Date: _ 3/ 23/ (Philip Conner Aftern
River Code:	STORET #:	Lat./ Long.:	/8 Office ver
SUBSTRATE Check CMAT Two statements or SEST TYPES POOL RIFF BLDR SLABB (10)	Legardas TVPE ACXES to revery fig. products LE OTHER TYPES POOL OTHER TYPES POOL OBSTATION (8) OBSTATION (8) OSCIPPICIAL (0) Socre natural substati of or more [2] studge from point of or less [0] Description (1) Socre natural substati of or more [2] studge from point of or less [0] Description (1) Socretary (1) FOOLS > 70cm [2] POOLS > 70cm [2]	Check DN RIFFLE LIMESTONE [1] TILLS [1] TILLS [1] HARDPAN [0] HARDPAN [0] HARDPAN [0] SHALE [-1] COAL FINES [-2] Rould Fines [-2	E (Or 2 & average) QUALITY HEAVY [-2] BILT BODERATE [-1] MODERATE 25-75% [7] S[-1] BODERATE 25-75% [7] S[-1] BODERATE 25-75% [7]
SHALLOWS (IN SLOW WATER ROOTMATS [1] Comments 3] CHANNEL MORPHOLOGY SINUOSITY DEVELOPMI MODERATE [3] (2) 600D [5] [1 CW [2] (2) F Fair [6] NONE [1] POOR [1]	Check ONE III each category (Or	N STABILITY HIGH (3) MODERATE (2) G*TOW (1)	Cover Maximum 20 Channel Maximum
EROSION DOM	IPARIAN WIDTH IDE 5 50m [4]	ath campony has EACH BAINS (OF FLOOD PLAIN QUALIT FLOOD PLAIN QUALIT HOUS ON OLD FIELD [2] ESIDENTIAL, PARK, NEW FIELD [ENGED PASTURE [1] PEN PASTURE, ROWCROP [6]	CONSERVATION TILLAGE
Check ONE (ONLY) Che □ > 1m [6] □ POOL □ 0,7~<1m [4] □ POOL	CHANNEL WIDTH ck ONE (07 2 & everage) WIDTH > RIFFLE WIDTH [2] WIDTH = RIFFLE WIDTH [1] WIDTH & RIFFLE WIDTH [0]	CURRENT VELOCITY Check ALL I litel apply TORRENTIAL [.1] SLOW [1] VERY FAST [1] INTERSTITI FAST [1] INTERSTITI MODERATE [1] EDDIES [1] Indicate for reach - pools and riff	ENT [-2]
Comments		large enough to support a	population DNO RIFFLE (me
of riffle-obligate species: RIFFLE DEPTH RI D BEST AREAS > 100m [2]	UN DEPTH RIFFLE A GMUM > 50cm [2] ☐ STABLE A GMUM < 50cm [1] ☐ MOD. STA	RUN SUBSTRATE RIFF	O INONE [2] LOW [1] MODERATE [0] Run EXTENSIVE [-1] MANUALTH

	(If Yes, Allach Completed OHE: Form)
DOWNSTREAM DESIGNATED USE(S)	
V/WH Name	Datases from Evaluated Stimers
CWrl keme*	Distance from Evaluated Stream
EWH Name	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE EN	TIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
GGS Quedrongle Name	NRCS Soil Map Page NRCS Soil Map Stream Order
untyTakin	hip/City
MISCELLANEOUS	
se Flow Conditions? (YAY)	Quantity
ctograph information	
existed Turtxidity? (Y/N) N Canopy (% open) 90	
	sample no ox ki and attach resulls] Lab Number
	pH (S ₍ U.) Conductivity (µmhos/cm)
the sampling reach representative of the stream (Y/N) [find.]	please explain
discral comments/description of potution impacts	
BIOTIC EVALUATION	
formed? (Y/N) No (If Yes Record all observations Voucher ID number Include appropriate field data	r collections optional. NOTE: all voucher samples must be tabeled with the i sheets from the Primary Headwater Habital Assessment Manual).
h Observed? (Y/N) Voucher? [Y/N) Selamanders Ob kgs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquale	bserved? (Y/N)
ornants Reputiting Biology	c Macroinyaricbrales Observed? (Y/N) Voucher? (Y/N)
Trialles Regarding Diringly	
DRAWING AND NARRATIVE DESCRIPTION	OF STREAM REACH (This must be completed):
	site evaluation and a narrative description of the stream's location
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Stream 46 - Fair Warmwater



CLAHITY I	DISTANCE DLOW D	D HIGH	METHOD STAGE
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HAMELOCATION Good Hepe . Have	6 · / RIVER BASIN	PRIMITE AREA A
GTH OF STREAM REACH (#)LAT	LCNG RIVER COD	E RIVER MILE
TE 3/24/2016 SCORER P3/2		
OTE: Complete All Items On This Form - Refe		
	HANNEL TRECOVERED TRECOVERIN	RECENT OR NO RECOVERY
ODIFICATIONS:		
SUBSTRATE (Estimate percent of every type of		
(Max of 40) Add total number of significant substi YPE PERCENT		sum of boxes A & B HHEI Metric
BLDR SLABS [16 pis]	SILT [3 pt]	23 Points
BOULDER (>255 mm) [16 phs]	LEAF PACKWOODY DEBRIS FINE DETRITUS [3 pts]	[3 pte] Substrate
1 COBBLE (65-255 mm) [12 pls]	CLAY OF HAROPAN [B pi]	Max = 40
GRAVEL (2-64 mm) [8 pis] 2/	☐☐ MUCK [ft pts]	16
SAND (<2 mm) [6 pts]	ANTIFICIAL B pls]	
Total of Percentages of	(A)	(B) A+B
Bld: Slabs, Boulder, Cooble, Bearock ORE OF TWO MOST PREDOMINATE SUBSTRAYET	YPES: TOTAL NUMBER OF SU	BSTRATE TYPES: 29
Maximum Pool Depth (Weasure the maximum		
evaluation. Avoid plunge pools from road culverts	or starm water pipes: (Check ONLY one box)	Max = 30
> 20 centimeters [20 pts] > 225 - 30 cm [30 pts]	> 5 cm - 10 cm [15 pts] < 5 cm [5 pts]	
> 10 - 22.5 on [25 pts]	7 NO WATER OR MOUST CH	
COMMENTS	MAXIMUM POOL DE	THE PARTY STATE OF THE PARTY STA
BANK FULL WIDTH (Measured as the average > 4.6 meters i> 13') [30 pts]	2 > 10m - 15m (> 3'3" - 4'8")	[15 pls] Width
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 6' 7" - 13') [25 pts]		
3.0 m - 4.0 m (> 6' 7" - 13') [26 pts] > 3.0 m - 4.0 m (> 6' 7" - 13') [26 pts] > 1.5 m - 3.0 m (> 4'8" - 8' 7") [20 pts]	>10 m - 15 m (> 3°3° - 4°8°) = 1.0 m (= 3°3°) [5 pts]	(15 pis) Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 6' 7" - 13') [25 pts]	2 > 10m - 15m (> 3'3" - 4'8")	(15 pis) Width Max=30
> 46 meters > 137 (30 pts) > 3.0m - 4.0m (> 9° 7 - 137 (25 pts) > 1.5m - 3.0m (> 4° 5 - 3° 7) (20 pts) COMMENTA	> 10 m - 15 m > 3 3 - 4 81 - 1.0 m (= 3 37 5 pts) AVERAGE BANKFUL	(15 pls) Width Max=30
> 4 (medex to '12) [0] [ptg] 3 > 3.0 m - 4.0 m 0 17 - 13) [25 ptg] > 1.5 m - 3.0 m 0 4" - 8" / 7) [20 ptg] COMMENT TR	> 10 m - 15 m > 3" - 4"8" > 10 m (2 3"3") [5 ste] AVERAGE BANKFUL AVERA	(15 pls) Width Max=30
> 4 (miders to 13) [80 pts] > 3.6m - 4.0m \(\nabla \) \(\nabla	2 1.0 m (2.73) [6 stell 2.1.0 m (2.73) [6 stell AVERAGE BANKFUL AND	(45 nie) Worth (maylors) 2.55
> 4 (miders to 13) [8] ptp > 3.5m - 4.0m 0 7 - 13) [25 ptp > 1.5m - 3.0m 0 6 7 - 13) [25 ptp > 1.5m - 3.0m 0 6 7 - 17 [20 ptp COMMENTY RIPARIAN ZONE AND FLOODPLANN OI L R (Per Bank) L R L R (Per Bank)	AVERAGE BANKFUL AVERAG	[15 ping] Worth Axes 10 WIDTH (moplets) 2.5 Worth Care Constrained Conservation Tifuge
> 4 (meders to 12) (B) (ptg)	AVERAGE BANKFUL AVERAG	(15 pie) Worth March WIDTH (moyers) San Jooking downdrame or Conservation Tifuge Urban or Industrial
> 4 (miders to 13) (B) ptol	AVERAGE BANKFUL AVERAG	(15 pie) Worth March WIDTH (moyers) San Jooking downdrame or Conservation Tifuge Urban or Industrial
> 4 (miders to 13) (Bit pital)	AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL (Mod Protein) Rown Left (1) and Rigot (6) (Mod Protein) Rown Left (1) and Rigot (7) Mod Protein) Rown Left (1) and Rigot (7) Mod Protein (1) Average (1)	(15 pile) Worth (molers) WIDTH (molers) WOOTH (molers) Woo
> 4 (miders to 13) (B) ptol	AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AND A STATE AND A STAT	(15 pile) Woldman Wold
> 4 (miders to 13) (B) ptol	AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL (Mod Prodominant per Bank) Malure Forest, Welfand Average Bankful Avera	(15 pile) Width Max 20 Constitution of Construction (15 piles of Constitution of Construction (15 piles of Constitution of Construction (15 piles of
> 4 (miders to 13) (B) (ptg)	AVERAGE BANKFUL AVERAG	(15 pie) Worth Maxe 30 WIDTH (mofers) 2.5 WIDTH (mofers) 2.5 Conservation Tilispe Ulban or Industrial Copen Pedure, Row Cop Mining or Construction
> 4 (miders to 13) (B) (ptd)	AVERAGE BANKFUL AVERAG	(15 pie) Worth Maxe 30 WIDTH (mofers) 2.5 WIDTH (mofers) 2.5 Conservation Tilispe Ulban or Industrial Copen Pedure, Row Cop Mining or Construction
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> 4 (miders to 13) (Bit pital)	AVERAGE BANKFUL BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL BANKFUL AVERAGE BANKFUL AVERAGE BANKFUL BA	(15 pie) Worth Maxe 30 WIDTH (mofers) 2.5 WIDTH (mofers) 2.5 Conservation Tilispe Ulban or Industrial Copen Pedure, Row Cop Mining or Construction
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Primary Headwater Habitat Evaluation Form 41 Stream 48, HHEI Score (sum of metrics 1, 2, 3): Modified Class 2 DITE NUMBER HIT-5/19/4-2 RIVER INCH LAT ____LCNG ____ RIVER CODE _____
COMMENTS _______ RATE = THE STREET OF __RIVER MILE DATE S/84/ZDIG SCORER PSR NOTE: Complete All items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for instructions STREAM CHANNEL ON NO NE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY SUBSTRATE (Estimate percent of every type of substrate present, Check ONLY two prodominant substrate TYPE boxes (Max of 40). Add total number of aganificant substrate types found (Max of 8). Final metric score is sum of boxes A & B. HHEI Metric Points Per Sound (Max of b) F min medic access acce BLON SLABS [16 pts]
BOULDER (~256 mm) [16 pts]
BEDROCK [16 pt]
COBBLE (65-256 mm) [12 pts]
GRAPU4C L7-64 mm) [8 pts] PERCENT PERCENT 10 Substrate Max = 40 15 SAND (<2 mm) [8 pts] (B) 3
TOTAL NUMBER OF SUBSTRATE TYPES: A+B ool Dopth 75 MAXIMUM POOL DE#TH (centing fee;) COMMENTS Bankfull Width Mac 20 RIPARIAN ZONE AND FLOODFLAIN QUALITY SNOTE New Left (1) and Right (6) as feoling covarilise most replaced by the control of th L R (For Bank)
Wide >10m
Moderate 5-10m Conservation Titlege Open Posture, Row Crop
Mining or Construction Residente: Park, New Field ПП Nme comments, FLOW REGIME (Al Time of Evolusion) (Check ONLY one box):
Stream Rowing
Suburdace for with isolated pools (interstillia)
Dry channel, isolated pools, no flow (intermittent)
Dry channel, no water (Ephemore) STREAM GRADIENT ESTIMATE

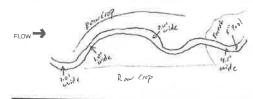
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Flat to Moderate

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MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE	1000 000 000 000 000 000 000 000 000 00	
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ounty Township /	City	
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ase Flow Conditions? (Y/N): Date of last precipitation	Quantity	
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dditional comments/description of polution apped a		
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Performed? (Y/N) // (If Yes, Record all observations, Voudier coll	ections optional NOTE: all vaucher samples must be labeled with	h the site
ID number indige appropriate near data site	ers item the residual recodulates returned and an arrangement	
ish Observed? (Y/N) Voucher? (Y/N) Salamanders Obser rogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Mi	ved7 (Y/N) Voucher7 (Y/N)	
rogs of Tadpoles Ubserves (Y/N) Voluner (T/N) Aquatic Mi	arroinvaried sites Claservea ((7/N)Voluciot?((7/N)	
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DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):



TE HAMEA OCATION Greet Hope - Haveston	water Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) :	Stream Mod Clas
ATE 3/24/2016 SCORER PSR C		_
	r to "Field Evaluation Manuel for Ohio's PHWH Streams" for Instruc HANNEL IN RECOVERED IN RECOVERING RECENT OR NO RECOV	
(Max of 40). Add (lot) number of significant substit PE	SILT D PUT SILT D	HHEI Metric Points Bubstrale Nax = 40
COME OF TWO MOST PRESONNATE SUBSTRATE I' Mashrum Fool Depti; (Réassure the mazhrum; orusulari, Jeoné plung pools from road culwets > 30 ocerometers (20 ts) > 202 - 30 ocerometers (20 ts) > 202 - 30 m (20 ts) > 202 - 30 m (20 ts)	pool depth within the 61 moter (200 ft) evaluation reach at the time of	Total Depth Mars = 20
BANK FULL WIGHT (Measured as the energy) > 45 maters (+ 17) [20 pts] > 15 m - 40 m (+ 0 f - 17) [20 pts] > 15 m - 15 m (+ 0 f - 0 f - 0 f) [20 pts] COMMENTS		Bankfull Width Max=30
RIPARIAN ZONE AND FLOODPLAIN QU	OPPLAN CUALITY (Mod Precombant per Barls) L. R. Mature Forest, Welland Conservation Titlege Investment Forest, Shinds or Cital Field Urban or Industrial Field Residential, New Field ST. Open Festure, Row Crops	
FLOW REGIME (AI Time of Evaluation) Stream Flowing Subsurface flow with isolated pools (Interst	Moist Channel, isolated pools, no flow (intermittent)	
SNUOSITY (Number of bends per 61 m () None 1 1.0 0.5 1.5	(200 ft) of channel) (Check ONLY one box):	
STREAM GRADIENT ESTIMATE	oderate (2.5/19/3)	

	Stream 49
GHEI PERFORMED? - 기 ves IT No GHEI Score (II Yes, Allach Completed GHEI Form) DOWNSTREAM DESIGNATED USE(S)	Modified Class 2
□ www.nume:	27.000000
CWH Name Dispuse from Evaluated Course	-
Distance tom Evaluated Stream	
MAPPING: ATTACH COMES OF MAPILINGUIDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION	-
USGS Quadrengle Name: NRCS Soil Map Page NRCS Soil Map Stream Order	
County Township / Oby	
MISCELLANEOUS	
Base Flow Conditions? (YAN) Date of last precipilation: Quantity:	
Photograph Information:	
Elevaled Turbidity? [Y/N] K Canopy (% open) & S	
Were samples collected for water chemistry? (Y.N.): (Note tob sample no or id, and attech results) Leb Number:	
Field Measures Temp (°C) Dissolved Oxygen (mg/lipH (S.U.)Conductivity (urrihox/cm)	
is the sampling reach representative of the stream (YAL)	-
, and a second of the second o	_
Additional comments/description of pollulon imparts	-
The state of the s	
SIOTE DALLIATOR	
SIOTIC EVALUATION	
Performed? (Y/N) N (N Yes, Record of observations (Asservations)	e sate
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DOWNSTREAM	DES/GNATED USE(S)		Notice to the Part of all Phones	Clas
J WWH Name			Distance from Evaluated Steepin	_
DEWH Name:			Distance from Every Med Comm	
		HE ENTIRE WATERSHED AR	EA. CLEARLY MARK THE SITE LOCATION	
JSGS Quadrangle Name		NRCS Soil Map Page	e NRCS Soil Map Stream Order	
county		Township / City:		_
MISCELLANEO				
lase Flow Conditions? (YA	N); Date of last precipitation	n	Quantity	
hotograph hidamnation.				_
levated Turbidity? (Y/N)	Canopy (% open)	100		
Yere samples collected for	water chemistry? (Y/N) _ // (N	lote lab sample no or id and	atlach results) Lab Number.	
Field Measures: Temp	PC) Dissolved Oxygon (mg/l			
		5) pH (S U.)	Conductivity (unhos/len)	
s the sampling reach repr	senialive of the stream (Y/N)	frol please significant		
s the sampling reach repr	esentelive of the stream (YRI) Y	finol please supplie	Conductivity (µmhoo/bas)	
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Poul 1.5' wide Row Crop

Stream & Location: QH-3/24/16-1 Good Hope-Harrison RM: Dale: 3/24/66
Stream 51 Fair Warmwater Scorers Full Name & Affiliation: Philip Report AFCOM
River Code: - STORET #: Lat / Long.: /8 . Office verified tocation
1] SUBSTRATE Clack ONLY Two substants TYPE BOXES BEST TYPES Substants & Tot code enter type present
2] INSTREAM COVER but call presents of bit 3. Delatest 1. Way your lamb and the it times correct changed AMOUNT coults 3 higher presents to the control of the country of t
3] CHANNEL MORPHOLOGY Check ONE in each category (Cr 2.6 average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY IJIOH [4]
BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (O' 2 per hank & average) BROSION
5] POOL/GLIDE AND RIFFLE/RUN QUALITY MAXIMUM DEPTH CHANNEL WIDTH CHANNEL WIDTH CHOCK ONE (O.W.Y) > 1m [6] POOL WIDTH SIFFLE WIDTH [2] TORRETTIAL[-1] SLOW [1]
Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: Check ONE (0/2 8 arrange)
6] GRADIENT (24 M/mi) VERY LOW - LOW [2-4] M/mi VERY LOW - LOW [2-4] M/mi MODERATE [6-10] M/mi M/mi
G816(96

	HHEI Score (sum of metrics 1, 2, 3):
HAMELOCATION _ Cood Hope - Herrise	Mod Clas
SITE NUMBER (/AT-2.6-4/A	SHOULD BASIT CHARLES AREA (192)
TH OF STREAM REACH (II) LAT.	
A REAL PROPERTY AND ADDRESS OF THE PARTY AND A	COMMENTS Intermitted Storing
	r to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
	HANNEL TRECOVERED PRECOVERING TRECONT OR NO RECOVERY
DIFICATIONS:	
SUBSTRATE (Estimate percent of every type of	f substrate present, Check ONLY (wo predominant substrate TYPE boxes
	rate types found (Max of 6) Final metric score is sum of boxes A 8 B
PERCENT	TYPE PERCENT Metric Points
3 BOALDER (>258 mm) [16 pts]	C LEAF PACK/MODOV DEBRIS [3 pts]
BEDROCK (18 pt)	Substrate Substrate
CORBLE (85-256 mm) [12 pts]	CLAY or HARDPAN (0 pt) Max = 40
GRAVEL (2-64 mm) [8 pts]	□□ MUCK (0 pist) c. ■
BAND (-2 mm) [F phs] 20	O ATTRICAL D (H)
Total of Percentages of	(A) (B) A+B
Bidr Slabs, Boulder, Cabble, Bedrock	
RE OF TWO MOST PREDOMINATE SUBSTRATE TO	YPES: TOTAL NUMBER OF SURSTRATE TYPES:
Maximum Pool Dayth (Measure the maximum)	pool depth within the 51 meter (200 fl) evaluation reach at the brice of Pool Dupth
mustration. At our plunge pools from road culverts.	er sterm water gipes) (Check ONLY one box : Mex = 30
> 10 centimeters (20 pts) /> 725 - 30 cm (30 pts)	> 5 cm · 10 cm [15 pts]
≥ 10 - 22 5 cm (25 p(s)	NO WATER OR MOIST CHANNEL (Date)
COMMENTS	MAXIMUM POOL DEFTH(centingSters):
	of 1-1 measurements) (Check ONLY one box); Bankfull
BANK FULL WIDTH (Measured as the average) # 4 Emeters (> 12) Ethests	ef 1-1 me surements) (Check ONLY one box): Bankfull
> 4 Constern (> 13) [30 pes] > 3.0 m + 4.0 m (> 21 7 - 13) [33 pes]	= 1.0 m - 1.5 m = 3 3 - 4 87 15 pts
» 4.Cmmers (> 13) [30 pcs]	≥ 1.0 m - 1.5 m (> 3'3" - 4'87 [15 pts] Width
> 4 Constern (> 13) [30 pes] > 3.0 m + 4.0 m (> 21 7 - 13) [33 pes]	-1.0 m -1.5 m (=3.3°-4°8°) [15 pts] Width Harr-10
> 4.Commers (> 13) (10 pts) > 3.Com + 4.Com (> 57 - 13) (23 pts) > 1.Com - 3.Com (> 4.5° - 97) (20 pts)	≥ 1.0 m - 1.5 m (> 3'3" - 4'87 [15 pts] Width
** + Emmers (** 17) [Digst] ** - 2.0	AVERAGE BANKFULL WIDTH (mg/mg)
* 4 Contents 17) Popels - 2.5m - 4.5m b 277 - 130 ptg > 1.5m - 3.0m p 4 E - 2.77 (20 ptg) COMMENTS This RIPARIAN ZONE AND FLOODPLAIN OU	AVERAGE BANKFULL WIDTH (mg/mg)
# 1 Emieracy 17) (Doped) # 1 Emieracy 17) (Doped) # 1 Emi 1 2 On O F Emiry 17) (Doped) COMMENTS THE RIPARIAN ZONE AND FLOODPLAIN OU # IPARIAN WORTH LR (DP Bosto) LR (DP Bosto) LR (DP Bosto) LR (DP Bosto)	AVERAGE BANKFULL WIDTH (myders) ANOTHER COMPLETED BANKFULL WIDTH (myders) AVERAGE BANKFULL WIDTH (myders) ANOTHER ROWN Left (L) and Right (R) as looking downstreams: (Most Precompant part Bank) L R
* 4.Emierap 12) (Dipage) * 1.Em - 10 m (> FF - 13) (Dipage) * 1.Em - 10 m (> FF - 97) (Dipage) * 1.Em - 10 m (> FF - 97) (Dipage) * 1.Em - 10 m (> FF - 97) (Dipage) * 1.Em - 10 m (> FF - 97) (Dipage) * RIPARIAN ZONE AND FLOODPLAN DID * RIPARIAN WIDTH * REPARAN WIDTH * ROOT Per Boot	AVERAGE BANKFULL WIDTH (mg/ms) AVERAGE BANKFULL WIDTH (mg/ms) AVERAGE BANKFULL WIDTH (mg/ms) Is information gue; also be completed ALITY 2NOTE: Revertet (I, land Right (R) as looking downstream? PORTAN QUALITY (Most Precombinant per Bank) Matter Forest, Welland Conservation Tibinge
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Stream 54, Modified Class 2

Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3): 10 House 03216-04 Bite Number 04 RIVER BASIN DRAINAGE AREA (IN*) LENGTH OF STREAM BEACH IN COMMENTS. TWO COMMENTS. TWO NOTE: COmplete All tens On This Form Refer to "Field Evaluation Manual for Ohlo's PHWH Streams" for Instruct	2 dons
STREAM CHANNEL ON NO RECOVER ON RECOVERING OF RECEIVED ON NO RECOVER MODIFICATIONS:	ERY .
SLOR SLABS (16 pts) PERCENT TYPE SLIT (3 pt) UC UC SLOR SLABS (16 pts) UC UC UC UC UC UC UC U	HHEI Vetric Points Onto Substrate A+B COI Daph Max = 30 Substrate Width More 30
This addination goal data be completed REPARIAN FORE AND FLOODPLAIN GUALITY OFFICE: Rever Left (L) and Riph (R) as looking downstream's RPARIAN WIDTH FLOODPLAIN GUALITY LR (POR Banc) L R (Nost Preformani per Bank) L R Wides - 10m Mature Forest (Welland Conservation Tillage	=
Moderate 5-10m	
FLOW REGIME (Af Time of Evelvation) (Check ONLY one box): Stream Flowing Nidst Channel, Indiated pools, no flow (Intermittent) Substrates flow with (scaled pools (interstitis) Drychennel, no water (Ephemeral)	
SINUOSITY (Number of bendaner 81 m (200 ft) of channel) (Check DNLY one box):	

	FJ MEASUREMENTS X width X width The Action of the Action o
	EJ ISSUES WWTP CEOT INTERESTINATION HARDERED MEREN MER MEREN MER MEREN MER MER
	Circle scrine & COMMENT
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Stream 54, Modified Class

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DOUTIONAL STREET	ORMATION (Tiels Information Most Ales be Completed):	
	ED7 - 🗍 Yes 🗐 No OHE Score (II Yes Alle	sh Completed OkEl Form)
		an Completed Charlet Fulling
DOWNSTREAM D	DESIGNATED JSE(6)	Distance Forn Everywheat Stream
EWH Name		Distance from Evaluated Stream
MAPPING: ATTAC	CH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED	AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name	NRCS Soil Map I	age NRCS So. Mep Stream Order
County	Township FOry	
MISCELLANEOU	15	
		Outstilde
Base Flow Conditions? (YA)	Date of last preupitation 2776	Guarioly
Photograph Information	299U 2776 N caracy (M open) 100	
Elevated Turbidity? (Y/N)	Caropy (% open) UO	
Were samples chileded for	water chemistry? [Y/Ni] Note lab sample no or id :	and albeith results) Lab Raymoer
	C Dasovel Grypen yest pH (SU)	
is like sampling reach repres	sentative of the sneam (YM) 1 Feet person explana	
BIOTIC EVALUA	ption of pollution impacts.	
	(if Yes, Record all observations. Voucher collections optimal ID number. Include appropriate field data sheets from the Pr	nmary Headwaler Habital Assessment Manual)
		Vo.(cher? (V/N)
Frogs or Tadpolas Observed	Voucher? (Y/N) Salamanders Observed? (Y/N) d? (Y/N) Aquatic Macroinvariebra	ries Observed? (Y/N) Voucher? (Y/N)
Frogs or Tadpolas Observed	d? (Y/N) Voucher? (Y/N) Aquet.c Mecroinverlebre	tes Observed? (Y/N) Voucher? (Y/N)
Frogs or Tadpolas Observed	d? (Y/N) Voucher? (Y/N) Aquet.c Mecroinverlebre	ites Observed? (Y/N) Voucher? (Y/N)
Frogs or Tadpolas Observed	d? (Y/N) Voucher? (Y/N) Aquet.c Mecroinverlebre	tes Observed? (YRI) Voucher? (YRI)
Frogs or Tadpoles Observed Comments Regutang Duby DRAWING	47 (YR) Vouche? (YRI) Aquatic Macromentetra GP AND NARRATIVE DESCRIPTION OF STREAM	REACH (This must be completed):
Frogs or Tadpoles Observed Comments Regulating Disco	d? (YRI) Voucher? (YRI) Aquatic Macroinverlebra	REACH (This must be completed):
Frogs or Tadpoles Observed Comments Requiring Disco	47 (YR) Vouche? (YRI) Aquatic Macromentetra GP AND NARRATIVE DESCRIPTION OF STREAM	REACH (This must be completed):
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Frogs or Tadpoles Observer. Comments Regulding District DRAWING. Include Important Se	AND NARRATIVE DESCRIPTION OF STREAM AND NARRATIVE DESCRIPTION OF STREAM AND S	REACH (This must be completed):
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Frogs or Tadpoles Observed Comments Regarding District DRAWING Include Important Se	And NARRATIVE DESCRIPTION OF STREAM adminss and other features of observes for which evaluation is	REACH (This must be completed): and a narrative description of the stream's let dis
Frogs or Tadpoles Observer. Comments Regulding District DRAWING. Include Important Se	And NARRATIVE DESCRIPTION OF STREAM adminss and other features of observes for which evaluation is	REACH (This must be completed): and a narrative description of the stream's let dis
Frogs or Tadpoles Observer. Comments Regulding District DRAWING. Include Important Se	AND NARRATIVE DESCRIPTION OF STREAM AND NARRATIVE DESCRIPTION OF STREAM AND S	REACH (This must be completed): and a narrative description of the stream's led dis

a	Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):	9]
	MEA OCATION 1977 OF	
112725	MC-032-116-03 STERRORES 03 RIVER BASIN ORANAGE AREA (m/) OF STREAM REACHIN LAT CORO RIVER CODE RIVER MILE	
DATE,	71-1/16 SCOREN BY TONS COMMENTS TATEL WITHOUT	41
	Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio"s PHWH Streams" for Instruction Microscopy (Instruction of the Control of the C	
	HOATIONS: LIYURING / CR / TL ROW	
Ç.	SUBSTRATE [Estimate percent of every type of substrate present, Check ONLY type precomment substrate TYPE boxes [(Max of 40) Add total number of significant substrate types found (Max of 8), Finel metric score is sum of boxes A & B	HHE)
NP E	PERSONAL	Metric Points
	BOULDER (>255 mm) [16 pts] LEAF PACK/WOODY DEBRIS [3 pts]	Bubstrate:
	COBBLE (65-259 mm) [12 ple]	Max = 48
88	SAND (<2 mm) [8 pls] 40 ARTIFICIAL [3 pls]	19
	Total of Percentages of IAI IS IBIO Standard Cobbie, Bedmorc IAI IS	A + B
2.	Maximum Pool Death (Massure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dapth
Q	everytion. Avoid plange goods from road culvets or storm water pipess. Check ONLY on a box:	Max = 30
Н	2225 3 tom (1) plots Scott 2) plots	5
_	COMMENTS MAXIMUM POOL DEPTH (continuolers):	
2	BANK FULL YNDTH (Measured as the average of 3-4 measurements) (Chack ONLY one box); > 4 C meters (> 137 100 pts] > 3 Cm − 4 Cm > 9 77 − 137 25 pts] > 3 Cm − 4 Cm > 9 77 − 137 25 pts]	Bankfull Width
ŏ	> 1 5 m - 3 0 m > 4'8' - 6'7") [20 pte]	51
	COMMENTSAVERAGE BANKFULL WIDTH (meters)	$\stackrel{\sim}{=}$
	This information must slop be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY #MOTE: River Left (L) and Right (R) as looking downstream&	
	RIPARIAN WIDTH FLOODPLAIN QUALITY	
	Wide > 10m	
	Narrow <5m Pesidential, Park New Field Open Pasture, Row	
	None	
	FLOW REGIME (At Time of Evaluation) (Check ONLY one both Stream Flowing Most Channel, isolated pools, no flow (Intermittent)	
	Substrate flowing Substrate flow with isolated pools (interstitial) COMMENTS (interstitial) (interstitial) (interstitial)	
	SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
	□ None	
□.Fi	STREAM GRADIENT ESTIMATE 1/958/90/n1 A Flat to Moderate	ti .
	PHWH Form Page - 1	-
	stream 56, Modified Class 2	
	hh-bae-032416-01	
O	Primary Headwater Habitat Evaluation Form	
	HHEI Score (sum of metrics 1, 2, 3):	2
A be	MELOCATION INTERPUMBER CI RIVER BASIN CRANAGE AREA INTO	_
LEVOT	OF BTREAM REACHON AT LCNO RIVER CODE RIVER MILE SUPPLY SCORES (AND COMMENTS THE SUPPLY	_
	Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruc	tions
	IM CHANNEL ON ONE / NATURAL CHANNEL ARECOVERED ARECOVERING ORECOVERING RECENT OR NO RECOVERING TO RECENT OR NO RECOVERING RECOVERING RECOVERING RECENT OR NO RECOVERING R	ERY
MOD)	_
t.	SUBSTRATE (Estimate percent of every type of substrate present, Check ONLY two predominent substrate TYPE boxes (Mex of 40). And total number of significant substrate types found (Mex of 8). Final metric score is sum of boxes A & B	HHEI Metric
	BLUK SLABS (16 PIS)	Points
	BEDROCK [18 pt] FINE DETRITUS [3 pts]	Bubstrale Max = 40
N T	GRAVEL (2-64 mm) (0 phs)	20
178	Total of Percentages of (A)	A+B
SCOR	Control of Processes of Control o	
2	Maximum Pool Depth (Measure the maximum pool depth within the 61 sweez (200 fit) evaluation reach at the bine of exacution. Avoid plungs pools from mad subwits or storm water plores: (Check Olid Y one book)	Pool Depth Max = 30
8	> 20 centimenters [20 pts] > 5 cm - 10 em [15 pts] > 22 5 - 30 cm [30 pts] = 6 cm (5 pts)	16
0	= 10 - 22.5 on (23-ph) 1.1 NO WATER OR WOLST CHAPPLE, (6-ph)	12
3	COMMENTS MAXIMUM POOL DEPTH (sentiments) BANK FULL WEDTH (Measured as the everage of 5-6 measurements) (Check ONLY one box):	Bankfull
,000	0 4 Constant D 137 [25 pts]	Width Moxe20
	15 15 15 15 15 15 15 15 15 15 15 15 15 1	5
	COMMENTS AVERAGE BANKFULL WIDTH (mixiders)	
	This information must also be completed REPARTAN ZONE AND FLOODPLAIN QUARTY SMOTE Here Left (L) and Right (R) as looking downstreams	
	RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Prodomisant per Bank) L R (Most Prodomisant per Bank) L R (Most Prodomisant per Bank) Conservation Tillage	
	Wide>10m Wide>10m Conservation Tillage Moderate 5-10m Urban or Industrial Fair Conservation Tillage Urban or Industrial Conservation Tillage Urban or Industrial Conservation Tillage	
	Narrow <5m	
	None	
	FLOW MEGME (All Time of Evaluation) (Check ONL) one box Monk Channel, isolated pools, no flow (intermittent) Scient Powing Monk Channel, isolated pools, no flow (intermittent) Only channel, no water (Ephemeral) Only channel, no water (Ephemeral)	

		HH EAR	50MB-03
ADDITIONAL STREAM INFORMATION (This influencing M	heat #Jose has Compilete	STE	
QHEI PERFORMED? - TYES NO CHE SCO	orc;IIYes	Attach Completed OnEl Fo	m _k .
DOWNSTREAM DESIGNATED USEIS)			
WWH Name		Distince from Evalu	
CV/H NASH		Distance from Evalua	
EWH trainer		Distance from Evelva	NA EURINE
MAPPING: ATTACH COPIES OF MAPS, INC. LICENCE	THE CHINE WATER	CHED AREA CLEARLY WAN	K THE SITE LOCATION
USGS Quadrangle Name	NRCE Sol N	Aap Page NRCS S	oil Map Stream Order
County	Township / City		
MINCELLANEOUS		2	
East Flow Condition (YA) Data of has precipited	tion	OUMANY	
Helium streets NIZ 281	P),		
We then the control of the control o	Ga		
N.I.			
And the second s			lumber
Field Measures Temp (*CI E-ssolved Oxygen in	1g4j pH (S l	J.)Conductivity (µ	mhos/cm)
is the sampling reads representative of the stream (Y/N)	Heat prese explan		
Account commentalizarigation of populary impacts			
BIOTIC EVALUATION			
Performed? (Yih) (if Yes, Record all cose valions	. Mounter entantime or	Normal AIOTEIroil yourthor san	nies must be labeled with the s
ID number (nouse appropriate	e lield data sheets from t	he Primary Headwider Habital	Assessment Manualt
Frsh Observed? (Y/N) Voucher? (Y/N) Salam Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N)	ianders Observed? (Y// Apual c Maccoinver	it Voucher? (Y/N) recrates Observed? (Y/N)	Vouc ser? (YPN)
Comments Regards & Balazza	- 171-71		
DRAWING AND NARRATIVE DESCR	IPTION OF STRE	AM REACH (This mus	l be completed):
include important landmarks and other features of in	deresi for site evalual	lon and a namative descript	un of the strgam's location
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14	Life con	生)	
	rds.		
	Mayor Lane Page	7	
ALC: U.S. SHAPE	551811 551111 55952		

Stream 56, Modified Class 2

CWH TIKES	
) WWH Name	Pour confere Fundador Purore
D CWH TIRES	Process of Complete Process
Discontinues	
BANK MARK	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSH	
SGS Duschangle Name NRCS Soil Ma	
County Township / City	
MISCELLANEOUS k	
Base Flow Conditions? (Y.N): N Date of last precipitation	Quantity
Prolog sph (nformation 2877 UP) \$2,3	
Elevated Turbidity* (YN) N Canopy (% open)	
Were samples odjected for water chemistry? (YN) N (Note at sample no or i	ld and altach results) can Number
Field Measures Temp ("C) Dissolved Oxygen (mg/l) pR (S U	
the sumpling reach representative of the stream (YPI) If not please ***********************************	
s the sampling read rejecte harde or the steam (1771) Through passes	
Additional comments idescription of point or # \$ \$ \$ \$	
BIOTIC EVALUATION of Yes, Record all observations. Vouctier calledfone opi ID number. Include appropriate field catualizeds from the	onal NOTE of voucher samples must be labeled with the e Primary Headwater (Japinal Assessment Manual)
Fish Observed? (YRI) Voucher? (YRI) Salamanders Cliserved? (YRI) Frogs or Tadpotes Observed? (YRI) Voucher? (YRI) Aquatic Macroinverte Commissed National Observed.	Voucher? (Y/N) Voucher? (Y/N) Voucher? (Y/N)
DRAWING AND NARRATIVE DESCRIPTION OF STREAT	MREACH (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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The state of the s	76.
FLOW WITH THE PARTY OF THE PART	The same
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	· Freed

STREAM GRADIENT ESTIMATE

☐ Flat to Service
☐ Flat to Service
☐ Moderate in Moderate in Service
☐ Service (10 Mills + 1)

PHWH Form Page - 1

W-896-032416-01	6 000 l	Warrural	2
ાય-૯૧૯- ૦૩૨૫(, -૦\ pualitative Habitat Evaluation Index nd Use Assessment Field Sheet	QH	El Score:	6

Stream & Location.	lifer (1 XXI - 1	4()		ZIT-EINE-DSZ410-01	A STATE OF LAND AND PARTY.	proven and the party	Mary Control
			orers Full N	me & Affiliation:	BAEICH	15 3/2	// La
River Code:		STORET #	Distora-	Long.:	/8_ ,		focation
BEST TYPES BEST TYPES BEOR SLABS [10 COBBLE [8] COBBLE [9] SAND [6] BEDROCK [6] NUMBER OF BEST Comments	POOL RIFFLE 5 60 10 10 10 TYPES: 44	OTHER TYPE: HARDPAN [4] DETRITUS [3] MUCK [2] SILT [2] ARTIFICIAL [[70 <u>5</u>	ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0]	SILT SILT	QUALITY QUALITY HEAVY [-2] MODERATE [-1] NORMAL [0] FREE [1] EXTENSIVE [-2] MODERATE [-1] NORMAL [0]	[4]

2] INSTREAM COVER Indicate presence 0 to 2. 0-Abresti. 1-Very small amounts of if more convence of marginal and country of the country. 3-1 lighted quality: 2-Moderable encounts, and not of highest quality or in usual amounts of highest quality: 3-1 lighted quality: 1-1 lighted qualit Comments 4

ON (O-26 average) STABILITY ☐ HIGH [3]

MODERATE [2]

LOW [1]

2

Comments \ \(\sigma \) \(\sig Recreation Potential Primary Contact Secondary Contac

ONO RIFFLE (metric=0) NONE [3]
□ LOW [1]
□ MODERATE [0]
□ EXTENSIVE [-1]
Mace 1.5 Comments

Comments

5] GRADIENT { 1/D | 1/m| | VERY LOW - LOW [2-4] | MODERATE [6-10] | MODERATE [6-10] | HIGH - VERY HIGH [10-6] %POOL: (20) %GLIDE: (40) %RUN: (0) %RIFFLE: (10)

Stream 58, Modified Class 1

HH PAR 173246 UZ ChieFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of matrics 1, 2, 3): hh-bae-03746-02 SITE HUMBER DO RIVER CODE ______RIVER MILE _ DATE 3246 SCORER AND COMMENTS TOLK TOTAL NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions

STREAM CHANNEL ONONE MATURAL CHANNEL | RECOVERED RECOVERING | RECENT OR NO RECOVERY MODIFICATIONS: NY DIVON (14 1)U.

BEDROCK [16 pf] COBBLE (65-255 mm) [12 pte] GRAVEL (2-64 mm) [9 pte] SAND (<2 mm) (9 pte) Total of Percentages of Bird Slabs, Boulder, Cobble, Bedrock	(SILT (2 PQ) LEAF PACK/WOODY DEBRIS (3 PIs) FINE DETRITUS (3 PIs) CLAY OF HARDPAN (0 PI) MUCK (0 PIs) ARTIFICIAL (3 PIs)	(B) []
> 30 centimeters (20 pts) > 225 - 30 cm (20 pts) > 10 - 225 cm (20 pts)	e marinum pool depth with	TOTAL NUMBER OF SUBSTRAT in the 51 namer (200 fg or substance of part) (Check ONLY one box): > 2 cm+10 cm (15 pts) < 5 cm (3 pts) NO WATER OR MODET CHAMPLE, IS MAXIMUM POOL DEPTH (cen	stretment
BANK FULL WIDTH (Measured as 4.0 meters (> 130) [30 piss] > 4.0 meters (> 130) [30 piss] > 3.0 m · 4.0 m (> 8) 7" - 13) (25 piss) > 1.5 m · 3.0 m (> 4'8" - 6'7") [20 piss)	Ď.		

This information must also be completed RIPARIAN ZONE AND FLOODPLAN GUALTY AND CERTIFICATION (In Right) (R) as looking downstream of page 1.00 mg and								
Stream Rowing Subsurface flow with isolated pools (infortified) Mobil Channel, isolated pools, no flow (intermittent) COMMENTA SINUDISTY (Number of bends per 81 in (200 ft) of channel) (Check ONLY one box): Name 1.0 2.0 3.0 O.5 1.0 2.5 >3 OTREAM ORADIENT ESTIMATE	(1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	PIPARIAN WIDTH (Per Bank) Wide > 10m Moderale 5-10m Narrow <5m	PLAIN QUAL	UTY ANOTE: Riv PLAIN QUAUTY (Most Predominant p Meture Forest, Wells Immature Forest, Sh Field Residential, Park, No	wer Left (L) and Right oer Bank) and I nub or Old I ew Field]	XX	Conservation Tillage Urban or Industrial Open Pasture, For	•
0.5		Stream Flowing Subsurface flow with (solated po	ols (interstitia per 61 m (20	In 1	Dry channel, no s sck ONLY one box):	water (Ep	hemeral)	ıt,
J Fial In Service #1 BQ Fial to Moderate Moderate is and t) Moderate to Servere		0.5	15	8	25	 2	J >3	
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Stream 57 Good Warmwater

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Stream 58, Modified Class 1

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Conster \$4, 2002 Revision

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ield Measuren: Temp (*C) Dissolved Oxygen (mg/l) pH	1 (S.U.) Conductivity (umhos/cm)
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Stream 61, Modified Class2

STREAM GRADIENT ESTIMATE
Flat (0 5 N/100 lt) Flat to Moderate

Moderate (2 folice fr)

Moderale to Severe

Severe (10 tv 100 tq

Stream 65 Poor Warmwater

Stream 65 Poor Warmwater

HIGH OF ST	16 crown 1	UP BURG	RIVER BA	es RIVI	ER CODE	INAGE AREA (m) ⁽) RIVER MILE	
NOTE: Comp TREAM CHA MODIFICATION	NNEL XIN					H Streams° for Instru RECENT OR NO RECO	
(Minx of TYPE) TYPE BLC BOT BOT BET CO	RATE (Estimate parc 40). Add total number IR SLABS (19 pts) JLDER (>235 mm) [16 DROCK [18 pt] ROCK [18 pt]	PERCENT pts	substrate pre ate types found TYPE	Benil, Check ONLY TO THE (Max of 8) Final metric (Max of 8) Final metric (BLT [3 pt] LEAF PACKWOODY FINE DETRITUS [3 CLAY OF HARDPAN MUCK [6 pts] ARTIFICIAL [3 pts]	DEBRIS [3 pt	PERCENT	HH Met Poi Subs Max
Blor Ste CORE OF TW Mexim	otal of Percentages of bs, Boulder, Cobble, I D MOST PREDOMINA um Paul Depth (Mea- tan Asset (20 pts) 30 cm 10 pts]	Sedrock/ V ATE SUBSTRATE T	noni denth wit	TOTAL NUMBE bin the 81 meter (2001) plant) (Check ONLY \$ 1 mm - 10 cm (15 < 0 cm (5 pts)	() evaluation re one boxi pls]	ach at the time of	Pool Max
COMM	2.5 on (25 pm)			NO WATER OF IN	OOL DEPTH	1 < 1	
> 4 0 mi	FULL WIDTH (Measur Kere (> 13') [30 pis] - 4 0 m (> 9' 7" = 13') [- 3 0 m (> 4' 8" - 8' 7")	25 pts	of 3-4 measur	> 1.0 m - 1.5 m (> 3 5 1.0 m (\$ 3 3) [5		fort 1	Mar Mar
_		'n	de information	must also be complet	ød	. It is to continue the	
	RIPARIAN ZONE AN RIPARIAN WIDTH IPE 8 and Wide 10m Moderate 5 10m	FLOO	(Mosi Prei Mature Fo	NOTE, River Left (L) and ITV dominant per Bank) rest, Welland Forest, Shrub or Old		Conservation Tillago Urban or Industrial	
00	Nunew «Sm	00	Residentia	il_Park_New Field	00	Open Pasture, Row Crop Mining or Construction	-
18	FLOW REGIME (At Stream Flowing Subsurface flow with COMMENTS		eter)	Moist Char	nnel isoleted p of no water (E	ools_no flow (kilemitlen) phemoral)	J
		r of bends par 61 m	(200 11) of char	nei) (Check ONLY on	e box):	30	

Stream 69, Modified Class 1

2 h and 12 hou he 2 nove women	parties and the		
	CD A-72 RIVER BASIN	pk	LIVADE AREA (m²)
	TAT LONG RIVE	RCODE	RIVER MILE
ATTELY MAY 16 SCORER MO	T. BEX- COMMENTS CARRACTER		
NOTE: Complete All Items On This	s Form - Refer to "Field Evaluation Manual for C	hio's PHW	H Streams" for Instruction
THOU	SUMMING CHANGE DECOVERED MECC	VERING []	RECENT OR NO RECOVERY
MODIFICATIONS:	s of chareliners and dies	- Lies	
SUBSTRATE (Estimate percent	of every type of substrate present. Check ONLY two pages and substrate types found (Max of 6). Final metric to	radominani s	ubstrate TYPE boxes
	PERCENT TYPE		PERCENT
TYPE BLDR SLABS [16 pts]	SILT (3 pl)		2.3
☐ ☐ BOULDER (>256 nvm) [16 pt	LEAF PACKWOODY		300
☐ ☐ BEDROCK [16 pt] ☐ ☐ COBBLE (65-258 mm) [12 pt]	77 77		55 Ma
COBBLE (65-258 mm) [12 pt GRAVEL (2-64 mm) [9 pts]	7 - 7 - 7 - 7	o bul	
DO BANDI-2 mm (5 pls)	ARTIFICIAL (3 plu)		
	(4)		(B)
Total of Percentages of Bidr Slabs, Boulder, Cobble, Bed	rock <u>5</u>		4
CORE OF TWO MOST PREDOMINATE	SUBSTRATE TYPES: TOTAL NUMBER	t of substi	RATE TYPES:
Maximum Foot Depth (Measure	the maximum post depth within the 61 mater (200 ft)	evaluation re	each at the time of Page
evaluation. Avoid plungs pools to	moroad culverts or storm ** ter topes (Check ONLY)	are now	100
> 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts]	29 et em 15 post		5
> 22.5 - 30 cm (75 pts)	☐ NO WATER OR NO	IST, CHARINE	Inches I' =
	MAXIMUM PO	OL DEFTH	constant L
COMMENTS		ONLY envi	next: Da
	(Chec		
BANK FULL WIDTH (Measured	□ >10m +55m (P3	3" - 4"85 [13]	W [etc
BANK FULL WIDTH (Measured	>10 m + 15 m (+3 7) (5 p)	3" - 4"85 [13]	pis) W
BANK FULL WIDTH (Measurad > 4 0 meters (> 13') [30 pta] > 3 0 m - 4 0 m (> 6' 7' - 13') [26'; > 1 5 m - 3 0 m (> 4'8' - 9' 7') [20';	>10 m = 15 m (= 73 m (3*=4 87 (15) (s)	Gert /
BANK FULL WIDTH (Measured	>10 m = 15 m (= 73 m (3*=4 87 (15) (s)	Gert /
BANK FULL WIDTH (Measurad > 4 0 meters (> 13') [30 pta] > 3 0 m - 4 0 m (> 6' 7' - 13') [26'; > 1 5 m - 3 0 m (> 4'8' - 9' 7') [20';	>10 m +15m pr 2 XIS	3" - 4 B7 [15] 4 6] ANKFULL WI	Gert /
BANK FULL WIDTH (Measurad > 40 meters (> 13) (30 pts) > 30 m - 40 m (> 6' 7' - 13) (25 pts) > 15 m - 20 m (> 4'8' - 9' 7') (20 COMMENTS	AS >10 m + \$4m P F F F F F F F F F F F F F F F F F F	OT 4 BY [15]	Cert //
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BANK FULL WIDTH (Measured 2 January 197) [20] [2] 2 January 197] [20] [2] 2 January 197] [20] COMMENTE RIPARIAN ZONE AND J RIPARIAN ZONE AND J I Per Bent) USE > 100 >	AVERAGE B: This information must also be complete. FLOODPLAIN QUALITY ON OTE: River Left (L) and FLOODPLAIN QUALITY L R (Wast Prodominal per Usas) Manne Feet Wichard	ANKFULL WI	Conservation Tillage
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CHE PERFORMED? - LI YES AND OTHE SPORE [III YES MIRCH CONSIDERED USER FORM)
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MAPPING ATTACH COPIES OF MAPS INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
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Photograph Information 2
Eleveled Furo crty* (Y/N)
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QHEI PERFORMED? TYES TO CHEI Score	rif Yes, Allach Completed OrdEl Form)
	(1 res Mari occurers di la comi
DOWNSTREAM DESIGNATED USE(S) WWW Name	Outlance from Evysusted Stream
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MAPPING: ATTACH COPIES OF MAPS INCLUDING THE S	NTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
ISGS Quadrangle Namo	NRCS Sof Mep Page NRCS Soi Mep Stream Order
ounty	nairp1 Xxy
MISCELLANEOUS	
lass Flow Conditions? (YAN)	Charme thekarme
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nine surregies cotacted for water charactryl (1964) _ N (Note I	ab sample no or M and altech results) Lab Number
and Mensures Temp: C1 Dissolved Oxygen (mg/i)	pH (8 U ;Canductivity (pmhos/cm)
7	R, please explain
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Stream

1. p. 43/24/15- 1 SITE NUMBER	127.2	4°F	0.2505	CALLED SERIES COMMON
NOTH OF STREAM REACH IN 3.00 M		LONG #		MAGE AREA (MIT)
TE 29 Air 2016 SCORER MAT		The second secon	VEACOUR	
OTE: Complete All Items On This Fo	Action Control of the	1,7,7,	r Ohio's PHWI	Streams" for Instruct
TREAM CHANNEL ONONE /N	ATURAL CHANNE	L DRECOVERED RE	COVERING [RECENT OR NO RECOVE
	notized	/ `		
SUBSTRATE (Estimate percent of a	very type of subs	rate present. Check GML Plan	predominant su	bstrate TYPE boxes
tMax of 40). And total number of signi YPE	ficent substrate typ PERCENT	es found (Max of 8). Fixel metri TYPE	c score is sum at	PERCENT
BLDR SLABS [18 pie]		SILT [3 pt]		55
☐ BOULDER (>256 mm) [16 pls] ☐ BEDROCK [16 pl]		LEAF PACKWOOD FINE DETRITUS (3)		
COBBLE (65-258 mm) [12 pts]		CLAY or HARDPAN	[0 pt]	75
GRAVEL (2-84 mm) [9 pts] SAND (<2 mm) [6 pts]		☐☐ MUCK [0 pis] ☐☐ ARTIFICIAL [3 pis]		
Total of Percentages of	-2 "	Antinione la hrai		(8)
Bid files, Boulder, Cobble, Bedrock	0 "	12		3
ORE OF TWO MOST PREDOMINATE EUR	ASTRATE TYPES:	TOTAL NUMB	er of substr	ATE TYPES:
Maximum Peer Depth (Messure the	meximum pool de	opin within the 61 mean (200)	fg evaluation rea	chatthetime of Pr
evaluation. Avoid plunge pools from a 30 continueters [20 pts]	pad culverts or stor	master poss) (Check chr.)	one born	
) > 22.5 - 30 cm [30 pts]				
		= 5 cm (5 pts)		
5 -10 - 22 5 cm [25 pts]		NO WATER OR M	OIST CHANNED.	
		NO WATER OR M	OIST CHANNEL	(0 on) y"
COMMENTS		NO WATER OR M MAXIMUM F	POOL DEFINE	hgles xxx
COMMENTS TANK FULL WOTH (Morsumd as III) > 40 meters (> 13) (30 pts) > 50 m - 40 m (> 67 - 13) (25 pts)		NO WATER OR M	POOL DEFINED TO ONLY ONE DO TO ONLY ONE DO TO ONLY ONE DO	hgles xxx
COMMENTS RANK FULL WOTH (Measured as II > 4 Ometris (> 13) (30 pls) > 30m - 40m (> 6"7 - 13) (25 pts)		MAXIMUM F measurements) (Che	POOL DEFINED TO ONLY ONE DO TO ONLY ONE DO TO ONLY ONE DO	highest 9"
COMMENTS TANK FULL WOTH (Morsumd as III) > 40 meters (> 13) (30 pts) > 50 m - 40 m (> 67 - 13) (25 pts)		MAXIMUM F measurements (Che > 1.0 m - 1.5 m (> 1.0 m (< 3.3) [5	POOL DEFINED TO ONLY ONE DO TO ONLY ONE DO TO ONLY ONE DO	April 21
COMMENTS	average of 3-4 (**Sem Ep Sign **NOWATER OF MAXIMUM	POOL DEFINED CR ONLY ONE DO T 3" - 4" 8") [15 pi pre]	April 21
COMMENTS	ne average of 3-4 ; This Info	MAXIMUM F MOVEMENT OF THE POINT OF THE POIN	COST CHANNEL POOL DEFTILL ck ONLY one be 3 3 - 4 6) [15 pt pre]	(movers)
COMMENTS ANN FULL WOTH INFORMATION OF THE PROPERTY OF THE PRO	This Info	MOVERTOR OF ME NOWATER OF ME N	COST CHANNEL CROWL DEPTH (A CROWL Y ONe bo ST 3" - 4" 6") [15 pl PRE] SANKFULL WID AND AND AND AND AND AND AND A	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
COMMENTS BANK FULL WOTH (Measured as it is 40 measured as it is 40 meas	This info	MAXIMUM I MAXIMUM I MEASUrements > 1.0 m - 1.5 m > 2 > 1.0 m - (-3.37) [5 AVERAGE I mallon must also be completed NOTE: River Left (L.) am NOUALITY	POOL DEFINITION TO STATE OF THE	TH (movers)
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COMMENTS ANNY FULL WIDTH (Measured as III > 4 Omerics (-13) (Doyle) > 4 Omerics (-13) (Doyle) > 3 Om - 4 Omerics (-13) (Doyle) > 1.6 m - 3.0 m (-2 4° 8° -9.77) [20 pis) COMMENTS RIPARIAN ZONE AND FLOO RIPARIAN WIDTH L R (Fel Bish) Wide > 10 m Narrow < 5 m	This info	MAXIMUM I MOWATER OR M MAXIMUM I MAX	COST CHANNEL POOL DEFTILLE CR ONLY one be F37-4-87 [15 pi pre] BANKFULL WID AND AND AND AND AND AND AND AND AND A	DAY: A fund 2 TH (movers) TH (movers) Conservation Tillage Urban or inclustrial Open Fasture, Row Crop
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COMMENTS TANK FULL WOTH (Measured as it) A 0 meters (* 13) (30 pts) > 3 0m - 4 0 m (> 67 - 13) (25 gts) > 1.6m - 3 0 m (> 47 - 97) (20 pts) COMMENTS RIPARIAN WOTH R (Per Bent) R (Per Bent) Moderate 5-10m Narrow - 5m Narrow - 5m COMMENTS	This info	MAXIMUM I measurements	COST CHANNEL POOL DEFTILLE CR ONLY one be F37-4-87 [15 pi pre] BANKFULL WID AND AND AND AND AND AND AND AND AND A	DAY: A fund 2 TH (movers) TH (movers) Conservation Tillage Urban or inclustrial Open Fasture, Row Crop
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Stream 71, Modified Class 2

TENAMELOCATION HET AND A		
THE 23 Not Tolk BOOKER MITTERS	LAT, LONG RIVER CODE RIVER MILE	
NOTE: Complete All Items On This Form	m - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institutional Chamber Recovered	
ODIFICATIONS: Chareful	l stury property live	_
(Max of 40) Add total number of signific PPE □ BLDR SLABS [16 pts) □ BOULDER (>255 mm) [16 pt6] □ BEDROCK [16 pt]	wy type of substrate present. Check OW. Yegoredomineal substrate TYPE bases stall substrate types found (Max of 8). Final matrix score is sum of bases. As B-PERCENT TYPE STATE TO THE DETERMINE THE STATE TO THE STATE THE DETERMINE TO \$1.50 THE DETERMINE	HH Mei Poi
COBBLE (65-256 mm) [12 pts] GRAVEL (2-64 mm) [19 pts] SAND (<2 mm) [6 pts]	5 CLAY OF HARDPAN [0 pl] 70 O MUCK [0 pls] 75 O ARTIFICIAL [3 pls]	13
Total of Percentages of	(A)	A+
Bidr Slabs, Boulder, Cobble, Bedrock CORE OF TWO MOST PREDOMINATE SUBS	STRATE TYPES: TOTAL HUMBER OF SUBSTRATE TYPES:	
Supranting Pool Depth (Measure me in evaluation: Avoid plungs pools from rea > 30 certimeters (20 pts)	(Check ONLY one box) State Check ONLY one box)	Max.
> 22.5 - 30 cm (30 pts) > 10 - 22.5 cm (25 pts)	O NOWATER OR MOIST CHARREN (8 PM)	2
> 22.5 - 30 cm (30 prs)	55 cm (5 pts)	2
>22.5 - 30 on (30 pis) 3 - 10 - 22.5 on (25 pis)	AS ON 15 pts] NO WATER OF MOIST CHARRY 10 pts) MAXIMUM POOL DEPTH (Cardinaters)	Berri Wic
> 22.5 - 30 om (30 pts) = 10 - 20.5 om (25 pts) COMMENTS. BANK FULL WIDTH (Measured as the > 3.0 m dess (> 10,100 pts) > 3.0 m - 4.0 m (> 9.7 - 137) [25 pts]		Wid
> 225 - 30 cm ptb pts] > 10 - 225 cm pts pts COMMENTS BANK FULL WIDTH (Measured as the > 40 meters to 13) ptp pts > 30 m - 40 m - 677 - 137 pts pts] > 15 m - 30 m - 64 m - 677 pts pts] COMMENTS RIPARIAN ZONE AND FLOOD	ASOMISE OR GOUST CAUBUS 19 PM MAXIMUM FOOL DEFTH (COLUMNES) S average of 3-4 measurements) 1 > 1.0 m - 1.5 m is -32 - 470 15 ptd AVERAGE BANKFULL WIDTH (COLUMNES)	Wid
> 225 - 30 om pto prist > 10 - 225 om pto prist COMMENTS BANK FULL WIDTH (Measured as the > 40 meters (- 13) [26 pts] > 30 m - 40 m - 677 - 137 [25 pts] > 15 m - 30 m (- 416 - 677) [20 pts] COMMENTS RIPARIAN ZONE AND FLOODI BIPARIAN WIDTH L R (PER BANK)	ASOMIS FISH AND WATER OR GOLDST CAUBUS 19 PM MAXIMUM FOOL DEFTH (Conditive St.) s average of 3-4 measurements) (Check ONLY one box): > 1.0 m - 1.5 m io -32" - 4"0") 115 ptd; > 1.0 m (c -32" - 4"0") 115 ptd; AVERAGE BANKFULL WIDTH (Conditive St.) AVERAGE BANKFULL WIDTH (Conditive St.) PLAIN QUALITY 4"NOTE Rive Left(1) and Right (R) as tooking downstream 4" FLOODELAIN QUALITY LR (MOSI Predominant) per Bank) LR	Wid
> 22.5 - 30 on p0 p4s] - 10 - 25 on p2 std COMMENTS BARK FULL WOTH [Measured as the > 40 or states > 10] p0 pts] - 3.0 m - 4.0 m (> 97 - 17) [26 pts] - 1.6 m - 30 m (> 97 - 17) [26 pts] COMMENTE RIPARIAN ZONE AND FLOOD BIPARIAN WIDTH	ASOMIS FISH AND WALES OF GOOST CAUBUS 19 PM MAXIMUM FOOL DEFTH (Confirmed): S average of 1-4 measurements) 1 > 1.0 m - 1.5 m is -32 - 45) 15 pts] 2 1.0 m (c 3 3) 5 pts] AVERAGE BANKFULL WIDTH (Confirmed): AVERAGE BANKFULL WIDTH (Confirmed): FLOODELAIN CULLUTY 4 NOTE River Left(1) and Right (R) as tooking downstream 4 FLOODELAIN CULLUTY L R (Modal Predominant) per Bank) L R Conservation Tillage Meture Forest, Nation of Old (Meture Forest, Nation o	Wid
> 22.5 - 30 on p0 p4s] - 10 - 25 on p2 std COMMENTS BARK FULL WIDTH [Measured as the > 40 m states 1 of 3) p0 pts] - 3.0 m - 4.0 m (-9.7" - 13) p2 pts] - 3.0 m - 4.0 m (-9.7" - 13) p2 pts] - 1.6 m - 3.0 m (-9.7" - 13) p2 pts] COMMENTS RIPARIAN ZONE AND FLOODI BIPARIAN WIDTH R	AVERAGE BANKFULL WIDTH (makers)	Wid
> 22.5 - 30 om pib pist	AVERAGE BANKFULL WIDTH (makers)	Wid
> 22.5 - 30 om più pista - 10 - 25 de niù più sita - 10 - 25 de niù più sita - 10 - 25 de niù più sita - 24 de mienzo 13) (20 pista) - 3.0 m - 4.0 m , 0.9 7 - 137) (25 pista) - 3.0 m - 4.0 m , 0.9 7 - 137) (25 pista) - 1.6 m - 3.0 m ; 0.4 0 - 19 77) (20 pista) - 1.6 m - 3.0 m ; 0.4 0 - 19 77) (20 pista) - COMMENTE RIPARIAN WIDTH - RIPE Banko - Moderale 5-10 m - Moderale 5-10 m - Narrow - Grin - None - COMMENTS	AVERAGE BANKFULL WIDTH (makers)	Max

ADDITIONAL STREAM INFORMATION (This Information Must Also.	tie Completes));
QHEI PERFORMEDT - TYES WING QHE: Score	(II Yes_Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WAVE Name	Distance from Evaluated Stream
CWH Name	Distance from Evaluated Stream
	TIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	NRCS Sol Map Page NRCS Sol Map Stream Order
	hip / City
MISCELLANEOUS	
Base Flow Conditions? (Y/N) A Date of last procipitation L	Hoter annin Vickness
Photograph Information 2	
Elevated Turbindy? (Y/N))
	sample no or kt and attach results) Lab Number
Field Measures Temp (*C) Datable (*C)	
is the sampling recent representative of the stream (Vitta, 🗜 (Year)	Petro to 1970
Additional comments/description of policion impacts	
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Comments Regarding Biology.	The state of the s
	OF STREAM REACH (This <u>must</u> be completed):
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4-2,000,000	

		16 - A 3/25/16 1
DOLTIONAL STREAM INFORMATIO	W L'Thris terformation Mark Afric he Compli	electr.
QHEI PERFORMED? - []	Yes No OHEI Scare (II')	es Allzeh Completed GHE! Form)
DOMNITHEAM CESIGNAT	NITO USR: 6)	
		Distance from Evaluated Stream
D EWH Name		Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES	S OF MAPS, INCLUDING THE <u>ENTIRE</u> WATE	RSHED AREA. CLEARLY MARK THE SITE LOCATION
SGS Quedrangie Name	NRCS So	Map Page NRCS Soi Map Stream Order
cunity	Township / City_	
MISCELLANEOUS		
ase Flow Coord lians? (Y/N)/	Date of last precipitation:	Osenny Vilkamit
holograph Information		
levaled Turbid by (Y/N)	Canopy (% open):	
vare samples odleded for water cher	mistry? (Y/N): // (Note lat sample no	or id and attech results) Lab Number
e d Measures: Temp (°C)	Dissolved Daygen (mg/l) p4 (S U) Conductivity (µmhos/cm)
In a sometou reach representative of	The stream (YA) Hapt blease exp	6 7
BIOTIC EVALUATION		
I/ IDea	ther: Include appropriate held-data chiefs this	NOTE all voucher samples must be labered with the site
I/ IDea	ther: Include appropriate held-data chiefs this	
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Stream 72 Poor Warmwater		V
Qualitative Habitat Evaluation Index and Use Assessment Field Sheet QHEI Score: 37	11118	(1) (1)
Stream & Location: Att then Cod the delisting RM: Date: 431 231 \$6	S S S S S S S S S S S S S S S S S S S	1 3 (11
River Code: - STORET #: Scorets Full Name & Affiliation: 18	ASSU ASSU ASSU ASSU ASSU ASSU ASSU ASSU	
Check ONE (Or 2 & everage)	7 ME September of the september of the s	
POOL RIFFLE DI IMESTONE (S)	AN THE SERVICE OF THE	1 1 1 1
COBBLE (8) 5 C MUCK (2) WETLANDS (9) CHORMAL (0)	TRACE COOL FLOOR TANGER	1 1 1 1 1
GRAVELTI GRAVEL	ALES IN THE STATE OF THE STATE	1 1 1 1
NUMBER OF BEST TYPES: Use of mines [2] SHALE [-1] MONE [1] Comments Use of the state of the sta	SS 55 1888 THE TRUE CONTRACT C	
 INSTREAM COVER Indicate presence 0 to 3 -0-fibrent, 1-Very small encounts or 8 more continue of marginal quality: E-McColerate amounts, but not of Inghest quality of in small amounts of frughest. Check ONE (07.2 & avorage) 	P 1 CSC BRIDD IN W 1 E BRAN IN	غ ا ا ا
quality. 3-tegenest quality in recolaration or general amounts on q. seey single occurred in the visit of the control of the c	WWWTI HARD COORS COORS COORS WAS WAS WATEN	
UNDERCUT BANKS (1) POOLS > 70cm [2] OXBOWS, BACKWATERS (1) MODERATE 28-75% [7] OVERHANDING VEDETATION (1) ROOTWADS (1) AQUATIC MACROPHYTES (1) SPARSE 5-45% [7] SHALLOWS IN SLOW WAIER (1) BOULDERS (1) LOSS OR WOODY DEBNIS (1) MEARLY ABSENT <5% [1)	1	11
ROOTMATS 113 Comments Maximum 7	Sowwww.	
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)	.	
SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4]	1 8	
MODERATE [3]	****** # # # #	1 + 1 1 1
□ NONE [1] □ POOR [1] □ RECENT OR NO RECOVERY [1] Comments	MACE MONOTO DOTA MINS STANIA PAINA STANIA STANIA	1-5 1 1 1
4) BANK EROSION AND RIPARIAN ZONE Check ORE in each category for EACH BANK (DT 2 per bank & surrept five opts bank and personnel	TENA TENA TO I CU TO SECUL TO SECUL TO DESIN	0 0
EROSION DAWNES SONIE DE COREST SWAMP IN DE CONSERVATION TILLAGE (1)	MAIN PRIM PRIM PRIM PRIM PRIM PRIM PRIM PRIM	1 1 1 1 3
□ MODERATE [2] □ NAVIROW \$-10m [2] □ RESIDENTIAL PARK, NEW RELD [1] □ NANING / CONSTRUCTION [0] □ HEAVY / SEVERE [1] □ □ VERY NARROW < 5m [1] □ □ FENCED PASTURE [1] □ HEAVY / SEVERE [1] □ □ VERY NARROW < 5m [1] □ □ FENCED PASTURE [1]	OUNCOOD ODER	3.
Comments Discharge to the past of the pas	22.2 2 -4	1 1 2
5) POOL / GLIDE AND RIFFLE / RUN QUALITY	S S S S S S S S S S S S S S S S S S S	3 ()
Charle ONE (ONE OF 25 DURING CO. Charle ONE OF 25 DURING CONTROL OF THE ONE OF 25 DURING CO. Charle ONE OF 25 DURI	AMEN AMEN AMEN AMEN AMEN AMEN AMEN AMEN	1 1 1 1 1 1
□ 0.7-<1m (4) □ POOL WIDTH = RIFFLE WIDTH (1) □ VERY FAST (1) □ INTERSTITIAL (-1) □ POOL WIDTH > RIFFLE WIDTH (0) □ FAST (1) □ INTERMITTENT (-2)	APP) APP) APP) APP) APP) APP APP APP APP	
D2-0.4m [1] MODERATE [1] EDDIES [1] Pool / Current Indicate for much - pools and reflex Assistant	## ESSESSESSESS SS	9.5. al
Comments 12 Indicate for functional riffles; Best areas must be large enough to support a population CINO RIFFLE Instrictor		34. 17 m
of riffle-obligate species: Check ONE (Cr 2 & arrange). RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS		
□ BEST AREAS - 10cm [2] □ MAXIMUM > 10cm [2] □ STABLE (e.g., Cobble, Boulder) [2] □ NONE [2] □ SEST AREAS - 10cm [1] □ MAXIMUM < 50cm [1] □ MOD. STABLE (e.g., Lurge Gravel) [1] □ NOVE [2] □ NOVE [3] □ NOVE [4] □ NOVE [4	STAGE	
DEST AREAS - Sem DUNSTABLE (n.g., Fine Gravel, Sand) (9) Comments Comments	8 100000 C 18 1 18 1 18 1 18 1 18 1 18 1	
6] GRADIENT (4 (t/ml)) VERY LOW-LOW [2-4] %POOL: (10) %GLIDE: (5) Gradient	PARTIES NEEDER LESSES ES	7
DRAINAGE AREA MODERATE [6-10] HIGH - VERY HIGH [10-6] %RUN: WRIFFLE.	AJ SAMPO O DESATT O DESATT O DESATT O DISTANCE O DISTA	V \
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9/1/2016 2:04:23 PM

in

Case No(s). 16-1487-EL-BLN

Summary: Letter of Notification - part 8 of 10 electronically filed by Mrs. Erin C Miller on behalf of AEP Ohio Transmission Company