# ATTACHMENT B

# **STREAM FORMS**

	Wisters		_		Clas
		IVER BASIN		RAINAGE AREA (mi²)	
STH OF STREAM REACH (D)	_LAT	LONG R	VER CODE_	RIVER MLE	
TE: Complete All Items On This For					
DIFICATIONS:	TURAL CHANNEL	. C RECOVERED C RE	COVERING	RECENT OR NO REC	OVERY
SUBSTRATE (Estimate parcent of ev	ery type of substr	ate present. Check ONLY M	o predominani	substrate TYPE boxes	ř.
(Max of 40). Add total number of signified		is found (Maxiof 8). Final matr TYPE	ic score is sur	1 of boxes A & B. PERCENT	HHEI Metric
BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts]		J SILT [3 pt]		1	Points
BEDROCK [16 pt]		LEAF PACKWOOD		pts]	Substrate
COBBLE (65-256 mm) [12 pts]		CLAY OF HARDPAN			Max = 40
GRAVEL (2-64 mm) [9 pls]		J MUCK [0 pis]			
		ARTIFICIAL [3 pls]		7.5	16
Total of Percentages of Eldr Siebs, Boulder, Cobble, Barrock	5 (A)	12		(0)	A+8
E OF TWO MOST PREDOMINATE SUD	THATE TYPES:	TOTAL NUMB	ER OF SUBST	PATE TYPES	
Maximum Pool Dupth (Measure the n	arimum pool day	th white the fit where the			
CVEU BUOIL AVOID SALINGE DOGES TIOM FOR	in culverts or storm	water seperal (Check OWL)	one boxic	each al line lune of	Pool Dypth Max = 30
> 30 centimaters (20 pts) > 22.5 - 30 cm (30 pts)		> 5 cm - 10 cm [15 < 5 cm [5 pm]	pts]		
> 10 - 22.5 cm [25 pts]		NO WATER OR M	OIST CHANNES	EL (0 pts)	5
COMMENTS		MAXIMUM	OOL DEPTH	(centinatera): 1	Transmitting
BANK FULL WIDTH (Measured as the	Automate of 1 4 -			and the second	I
> 4 C meters (> 13') [30 pts]	averaga 01 2-4 (I)		ck ONLY one 3'3" - 4'8") [15		Bankfull Width
> 3,0 m - 4.0 m (> 8'7" - 13') [25 ptc] > 1.5 m - 3.0 m (> 4'8" - 9'7") [20 pts]		🗹 ន1.0 m (ន 3 3 3) គ្រ	pta]		Mex=30
COUMENTS		11-11-12	-	F1. 3.0	5
contexts		AVERAGE E	ANKPULL W	DTH (mejérs)	N. C. C.
	This inform	atton must also be complet	ed		
RIPARIAN ZONE AND FLOOD	FLOOOPLAN	CHIOTE: River Left (L) and	Right (R) as b	coking downstream dr	
L R (Per Bank)	L H (Mase	Predominant per Bank)	1.8		
00 Wde>10m		en Forest, Welland Iture Forest, Shoub er Old	50	Conservation Tillage	
Moderate 5-10m	D D Inna Red		30	Urban or Industrial	
ATT Namoursten	ATT Resid	Sentia _ Park, New Field	00	Open Pasiure, Row	
DD hone	DD Fero	ed Pasture	00	Grep Mining or Construction	
COMMENTS					
FLOW REGIME (A! Time of Evan	(Check O				
Subsurface flow with isolated poo	interstitial)	Dry channel	no water (Ep	ofs, no flow (Intermittent)	
			and a sheri (etc		
COMMENTS					
SINUOSITY (Number of bends p	er 61 m (200 ft) of i	channel) [Check ONLY one	D0X):		
COMMENTS	er 61 m (200 ft) of i 1.0 1.5	channel) [Check ONLY one 20 25	Dox):		

Class 1
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with the site
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location

DWING WING

ENAMELOCATION _Good Hope- H				_		Cla
SITE NUMBER #					AINAGE AREA (mi)	
NGTH OF STREAM REACH (N)			Reterenter			
OTE: Complete All Items On This For						
	TURAL CHA	NNEL CREC	OVERED RE	COVERING .	RECENT OR NO REC	OVERY
DDIFICATIONS:						
SUBSTRATE (Estimate percent of ev	ery type of s	ubstrate preser	L. Chack ONLY IW	o predominant s	substrate TYPE boxes	ł.
(Max of 40), Add total number of signific	cant substrate	e types found (M	ax of 8) Final metr	ic score is sum	of boxes A & B	HHEI Metric
BLOR SLABS [16 pts]			iiLT [3 pi]		PERCENT	Points
BOULDER (>259 mm) [15 pts]	. 5		EAF PACKWOOD		ts] 5	Substrate
BEDROCK [16 pt]     BEDROCK [16 pt]     COBBLE (65-255 mm) [12 pts]	30		INE DETRITUS [: LAY or HARDPAN			Max = 40
GRAVEL (2-64 mm) [9 pls]	23		UCK [0 pts]	( to bd		
] [] SAND (<2 mm) [6 pts]	15		RTIFICIAL [3 pts]		2000	27
Tota) of Percentages of					(8)	A+B
	55	21			161	A+D
ORE OF TWO MOST PREDOMINATE SUBE	STRATE TYP	ES: Manual	TOTAL NUNB	ER OF SUBST	RATE TYPES; Imment	
Maximum Pool Depth (Weasure the m	naximum poo	ol depth within	the #1 meter (200	fij evoluziloo re	sch of the lime of	Peel Depth
evaluation. Avoid plunge pools from roa >> 50 certimeters (20 pts)	o chivats or		> 5 cm + 10 cm [10			Max = 30
* 22.5 - 30 cm (36 pts)		g	< 6 cm (5 ms)		and the second s	30
1 > 10 - 22.5 on [25 ph]			NO WATER OR M	OIST CHANNE		النكار
COMMENTS			MAXIMUM	POOL DEPTH (	centingetors):	
BANK FULL WIDTH (Measured as the	average of	3-4 measureme				Bankfull
> 4.0 meters (> 13) [30 pts]	average of		nts) (Chu > 1.0 m - 1.5 m (> 3	rck ONLY one b 313" - 418") [15 p	10x):	Bankfull Width
	average of		ots) (Che	rck ONLY one b 313" - 418") [15 p	10x):	
> 4.0 meters (> 13) [30 pte] > 3.0 m - 4.0 m (> 9'7" - 13') [25 pre] > 1.6 m - 3.0 m (> 4'8" - 9'7") [20 pte]	average of		ota) (Chu ≻ 1.0 m - 1.5 m (>: ≤ 1.0 m (⊴: 3° 3″)[5	rck <i>ONLY</i> one b 3°3°-4°8″) (15 p (pts)	1007.): rtaj	Width
> 4 0 meters (> 13) [30 pts] / > 3.0 m - 4.0 m (> 9'7" - 13') [25 prs]	avsrage of		ota) (Chu ≻ 1.0 m - 1.5 m (>: ≤ 1.0 m (⊴: 3° 3″)[5	rck ONLY one b 313" - 418") [15 p	1007.): rtaj	Width
> 4 (0 m dens (> 13) [30 (xe)] / > 3.0m - 4.0m (> 9'7' - 13) [25 pss] > 1.6m - 3.0m (> 4'8' - 9'7') [30 pse] COMMENTS	This i	nformation mus	ota) (Chu ≻ 1.0 m - 1.5 m (>: ≤ 1.0 m (⊴: 3° 3″)[5	ch <i>ONLY</i> one b 3°3°-4°8°) (16 p pba) BANKFULL Witt	1007.): rtaj	Width
> 4 (0 meters (> 15) [30 (xe) (> > 50 m - 40 m (> 97 - 13) [25 pre] > 1.5 m - 3.0 m (> 4*8*- 6*7*) [20 pre] COMMENTS	This J PLAIN QUAL	ם שנות אסולגרותיאות דרסאילא יידו	ots) (Che > 1.0 m - 1.5 m (> : ≤ 1.0 m (≤ 3 3 ") (5 AVERAGE E	nck OWLY one b 3°3°-4°8°) [15 p peta] BANKFULL Witt	1007.): rtaj	Width
2 > 40meters (- 13) p30 peg     2 > 50m - 40m (- 97 - 13) p35 peg     3 > 15m - 3.0m (- 97 - 13) p35 peg     Comments     Comments     RIPARIAN ZONE AND FLOODI     RIPARIAN WOTH	This I PLAIN QUAL FLOODP		ots) (Chu ≻ 1.0 m ~ 1 5 m (> ≤ 1.0 m (≤ 3° 3°) (5 AVERAGE t AVERAGE t AVERAGE t AVERAGE t AVERAGE t AVERAGE t	nck OWLY one b 3'3'-4'8') [15 p pts] BANKFULL Wit BANKFULL Wit Ied d Right (R) as k	-F7 7.C	Width
> 40 meters (- 13) p30 kg > 30 m - 40 m (- 97 - 13) [25 prs] > 15 m - 30 m (> 4° - 9′ 7) [20 prs] COMMENTS	This J PLAIN QUAL	Information mus ITY + NOT LAIN QUALITY (Most Predome Mature Forest,	the second seco	nck OWLY one b 3°3°-4°8°) [15 p peta] BANKFULL Witt	-F7 7.C	Width
> 40meters (- 15) p30 p40   > 30m - 40m ( 9 ア - 13) [25 pre] > 15m - 3.0m (> 4 8 - 9 77) [20 pre] COMMENTS	This i PLAIN QUAL FLOODP L R	nformation mus ITY &NOT LAIN QUALITY (Most Predom Mature Formut, Internation Formut,	the second se	nch ONLY one b 3'3"- ("8") [15 p pzs] BANKFULL YND Ied d Right (R) as k L R	PTT (metars) TTH (metars) DTH (metars)	Width
>4.0meters (~ 13) polye()     >15 m - 4.0meters (~ 13) polye()     >15 m - 3.0m (~ 6° T - 13) [20 pre]     COMMENTS      RIPARIAN ZONE AND FLOODI     RIPARIAN ZONE AND FLOODI     RIPARIAN WIDTH     L R (Per Bard)     G' ("We's 10m     Moderate 5-10m		Information mus ITY ANOT LAIN QUALITY (Most Precome Mature Form), Internative Form Find	(Chu         Chu         > 1.5 m (> 3         > 1.5 m (> 3 <th< td=""><td>nck OWLY one b 37 37 - 4787 [15 p pers] BANKFULL WIL Idd d Right (R) ask L R </td><td>DTH (megars) 7.0 Conservation Tillege Urban or Industrial Open Pesture, Row</td><td>Width</td></th<>	nck OWLY one b 37 37 - 4787 [15 p pers] BANKFULL WIL Idd d Right (R) ask L R 	DTH (megars) 7.0 Conservation Tillege Urban or Industrial Open Pesture, Row	Width
><0.meter (-13) polyal		Information mus ITY ANOT LAIN QUALITY (Most Predom Mater Form Internative Form Field Residential, Pa	(Chu       > 1.0 m       > 1.0 m       ≤ 1.0 m       AVERAGE t       Average       E stoo be complete       E stoo be complete       E stoo be complete       E stoo be complete       Methods       E stoo be complete       I also be complete	nok ONLY one b 3'3' - 4'8') (15 p pera) BANKFULL YND d Right (R) ask d Right (R) ask C C C C	P3 2.4 P3 2.4	Width Wiccos
>4.0meters (~ 13) polye()     >15 m - 4.0meters (~ 13) polye()     >15 m - 3.0m (~ 6° T - 13) [20 pre]     COMMENTS      RIPARIAN ZONE AND FLOODI     RIPARIAN ZONE AND FLOODI     RIPARIAN WIDTH     L R (Per Bard)     G' ("We's 10m     Moderate 5-10m		Information mus ITY ANOT LAIN QUALITY (Most Precome Mature Form), Internative Form Find	(Chu       > 1.0 m       > 1.0 m       ≤ 1.0 m       AVERAGE t       Average       E stoo be complete       E stoo be complete       E stoo be complete       E stoo be complete       Methods       E stoo be complete       I also be complete	nck OWLY one b 37 37 - 4787 [15 p pers] BANKFULL WIL Idd d Right (R) ask L R 	DTH (megars) 7.0 Conservation Tillege Urban or Industrial Open Pesture, Row	Width Wiccos
><0.meter (-13) p3(e)		Information mus ITY ±NOT LAIN QUALITY (Most Precent, Interative Form Field Residential, Pa Fenced Pastur	(Che           > 1.0 m (-1.5 m >-           > 1.0 m (-1.5 m >-           > 1.0 m (-1.5 m >-           AVERAGE to           average	nok ONLY one b 3'3' - 4'8') (15 p pera) BANKFULL YND d Right (R) ask d Right (R) ask C C C C	P3 2.4 P3 2.4	Width Wiccos
>4.0 meters (~ 13) polyal     >4.0 m < 4.0 m < 97 ~ 13) polyal     >1.5 m < 3.0 m < 4.7 * 77; [22 pre]     >1.5 m < 3.0 m (~ 4.7 * 77; [22 pre]     COHMENTS     [17.6 m + 1.0 m		Information mus ITY ANOT LAIN QUALITY Mature Process, Installine Form Field Residential, Pa Fenced Pastur reck ONLY one I	(Che     (Che     (Che     (Che     (.3 737)5     (.3 737)5     (.3 737)5     (.3 737)5     (.4 737)5     (.	th ONLY one L 33-43 [15 pt23] BANKFULL WIC Led d Right (R) as jo 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Inox); If all and a second se	Width United
>4.0 meters (~ 13) polye()     >3.0 m < 40m (≈ 27 ~ 13) polye()     >3.0 m < 40m (≈ 27 ~ 13) polye()     >3.0 m < 40m (≈ 27 ~ 13) polye()     COMMENTS     []PARIAN VONE AND FLOODI     []PARIAN VONE AND FLOODI     [] PARIAN VONE AND FLOODI     [] Moderate 5-10m		Information mus ITY ANOT LAIN QUALITY Mature Process, Installine Form Field Residential, Pa Fenced Pastur reck ONLY one I	(Che     (Che     (Che     (Che     (.3 737)5     (.3 737)5     (.3 737)5     (.3 737)5     (.4 737)5     (.	nck ONLY one E 3737-4787 [15 p 38ANKFULL YNG d Right (R) as k C C C C C C C C C C C C C C C C C C C	Inox); If all and a second se	Width United
>>40 meters (~ 13) polye()           >>30 m < 40 m (< 97 - 13) [25 ps]	This is PLAIN QUAL FLOODP L R                                       	Information muse ITY 2-NOT LAIN QUALITY (Most Phendown Mainer Perett, Inventative Form, Field Residential, Pa Penced Perstun teck ONLY one I	Chain (Chain 2)	ok OVLY one to 37 - 4 67 [15 p BANKFULL WIL ded d Right (R) as Jo 2 (Right (R) as Jo 2 (R	Inox); If all and a second se	Width United
>40 meters (~ 13) polya]     >10 meters (~ 13) polya]     >10 meters (~ 17) polya]     >10 meters (~ 17) polyad     (77 meters)     (77	This is PLAIN QUAL FLOODP L R D D D D D D D D D D D D D D D D D D D	Information muse ITY 2-NOT LAIN QUALITY (Most Phendown Mainer Perett, Inventative Form, Field Residential, Pa Penced Perstun teck ONLY one I	(Chu - 1.5 m P)           > 1.0 m - 1.5 m P)           > 1.0 m - 1.5 m P)           S - 1.0 m (2.5 m)           AVERAGE L           [all SD be completed           [bl SD be completed<	uck OVILY one Le 37 - 487 [15 p BANKFULL WIL Idd d Right (R) as ju d Right (R) as ju d Right (R) as ju d Right (R) d R) d Right (R) d R) d Right (R) d R) d Right (R) d R) d R) d Right (R) d R) d R) d R) d R) d R) d R) d R) d	Inco;: If a Joint (megaris)	Width United
>40meters (~ 13) (20 pe)     >20 m - 40 m (≈ 77 - 13) (20 pe)     >15 m - 30 m (~ 47 - 97 ) (20 pe)     COMMENTS     RIPARIAN ZONE AND FLOODI <u>BIPARIAN WOTH     L A , / Pe Brds)     '''''''''''''''''''''''''''''''''</u>	This is PLAIN QUAL FLOODP L R                                       	Information muse ITY 2-NOT LAIN QUALITY (Most Phendown Mainer Perett, Inventative Form, Field Residential, Pa Penced Perstun teck ONLY one I	Chain (Chain 2)	ok OVLY one to 37 - 4 67 [15 p BANKFULL WIL ded d Right (R) as Jo 2 (Right (R) as Jo 2 (R	Inox); If all and a second se	Width United
> 40 meters (~ 13) (20 pe)     > 40 m + 40 m (× 77 - 13) (23 pe)     > 16 m - 30 m (~ 47 - 47 ) (23 pe)        > 16 m - 30 m (~ 47 - 47 ) (23 pe)        COMMENTS       RIPARIAN ZONE AND FLOODI        II.A. P. (Pe Berk)        ''	This is PLAIN QUAL FLOODP L R C C C C C C C C C C C C C C C C C C C	Information muse ITY 2-NOT LAIN QUALITY (Most Phendown Mainer Perett, Inventative Form, Field Residential, Pa Penced Perstun teck ONLY one I	Check ONLY You Carlow Control of the complete comple	uck OVILY one Le 37 - 487 [15 p BANKFULL WIL Idd d Right (R) as ju d Right (R) as ju d Right (R) as ju d Right (R) d R) d Right (R) d R) d Right (R) d R) d Right (R) d R) d R) d Right (R) d R) d R) d R) d R) d R) d R) d R) d	Inox); If all and a second se	Width United

ADDITIONAL STREAM INFORMATION (This Information Must Alias be Campleled) Stream 2, QHEI PERFORMED7 - CT Yes TWo OHEI Scare \_\_\_\_\_ (If Yes, Altach Completed QHEI Form) Class 3 DOWNSTREAM DESIGNATED USE(S)

WWH Name:
CWH NA Distance Ferr Evaluated Stream, Distance from Evaluated Stream, Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION NRCS Soil Map Page \_\_\_\_\_ NRCS Soil Map Stream Order \_\_\_\_ USGS Quedrangle Name County \_\_\_\_\_ Township / City.\_\_\_\_ MISCELLANEOUS Base Flow Conditions? (Y/N) \_\_\_\_\_ Dute of last precipitation \_\_\_\_\_ Quan bity.\_\_\_\_ Photograph Information: Elevated Turbidity? (Y/N): V Canopy (% open) 3.5 Were samples collected for water chemisiny? (YIN): \_\_\_\_\_\_ (Note lab sample no, or id, and allach results) Lab Number; Field Measures Temp (°C) Dissolved Oxygen (mg/l) pH (SU) Conductivity (umhos/cm) Is the sampling reach representative of the stream (Y/N)  $\underline{\gamma}$  . If not please explain \_\_\_\_\_\_ Additional commental description of polation impairs \_ BIOTIC EVALUATION Performed? (YN) \_\_\_\_\_\_ (If Yes, Record all cheanations. Vaucher collections optional. NOTE: all number samples must be tabeled with the site ID number, Incluse appropriate field data sheets from the Primary Headwriter Fabridat Assessment Manual). 
 Fish Observed? (YA)
 Voucher? (YA)
 Salamanders Observed? (YA)
 Voucher? (YA)
 Voucher?
 Voucher? Comments Regarding Belogy

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): include important landmarks and other features of inte arest for site evaluation and a namalive description of the stream's location

PRIVICE Form Page - 2

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1'side Deater! Dallas i FLOW

And D. Link Meaning

THE REPORT OF THE PARTY OF THE		HHEI Score	(sum of a	netrics 1, 2, 3) :	LO C
TENAMELOCATION _ Creck Report	langer				
GITE NUMBER	IIII MANA - 2 RIVER B	ASIN		RAINAGE AREA (mi <sup>2</sup> )	
				RIVER MILE	
GOONER T DIE	COMMENTS (	Measor & Sty	111111		
NOTE: Complete All Items On This Fo	irm - Refer to "Field Ev	aluation Manual for	r Ohio's PH	WH Streams" for Insl	tructions
TREAM CHANNEL INONE / N	ATURAL CHANNEL	ECOVERED CIRE	COVERING	RECENT OR NO REA	OVERY
ODIFICATIONS:					
SUBSTRATE (Extinuits subcest of		ALC - WEINSON		_	_
SUBSTRATE (Exclusive percent of e (Nex of AD). Add Iolal number of signal IVPE	icent subshale types found	MAR. Check ON, Yhuc Max of ID. Final matri	g processing of	mbstute TYPE boxes	HHEI
BLDR SLABS ME atra	PERCENT TYPE		1.500.510.000	PERCENT	Metric
BOULDER (>258 mm) [16 prs]		SILT [3 pt] LEAF PACK/WOOD		2.1	Points
BEDROCK [16 pt]		FINE DETRITUS [3	uts)	[eta	Substrate
COBBLE (65-255 mm) [12 pls]	00	CLAY or HARDPAN		-	Bax # 40
GRAVEL (2-64 mm) [8 pts]	10 00	MUCK [0 pls]			1
(	00	ARTIFICIAL [3 pls]			10
Total of Percentages of Bits Slabs Boulder, Cobbin Betrook	1 100 10			(B)	A+B
ORE OF TWO MOST PREDOMINATE BUD	OTHATE TYPES:	TOTAL NUMBE		BATE TYPES	
Maximum Pool Depth (Heasure the n	naximum pool depth with		_		
eveluation. Avoid plunge pools from ros > 30 centimeters [20 pts]				each ai the lime of	Pool Depth
> 22.5 - 10 cm (10 pts)	8	>5 cm - 10 cm [15]	pts]		
1 > 10 - 22.5 cm [25 gits]	či	NO WATER ON MO	EST CHANNE	Telepist	5
COMMENTS					-
BARK STOL MOTOR OF		MAXIMUM PC	DOL DEPTH	centiglaters):	-
MANK FULL WICTH (Measured as the > 4 Cristian (+ 12) (30 per)		> 1.0 m - 1.5 m (Chec)	k ONLY one t	nox):	Bankfull
>3.0m - 4.0m (> 0"7" - 13) [25 pis] > 1.2m - 3.0m (> 4"6" - 9"7") [20 pis]	9	: 1.0 m ( < 3' 3') [5 p	2 - 4 6 ) [19]	rej	Maxwatt
COMMENTS		AVERAGE BA	NKFULL WI	TH (meters)	10
	day - crart we have		_		"anterest
RIPARIAN ZONE AND FLOOD	PLAIN QUALITY SHO	ut also be completed TE: River Left (L) and S	di Rient (R) as to	A mantenant office	
L R ( (Per Bank)	CANONE DESCRIPTION	<u>e</u> .,		a program the second second second	
⊡r ∰ Wide>10m	33 Meture Form	that per Banky	55	Conservation Filiage	
DD Moderale 5-10m	CI CI Strenature For	sst, Ehrub or Old	33	Uttan or Industrial	
II Nerrow cSm		ark, New Field	1000	Open Pasture, Row	
None None	Fenced Pestu		00	Crop	
COMMENTS	Penced Pestu	91	-00	Mining or Construction	
the second of second second second	ustori ichark Okraine	int.			
FLOW REGIME ON THE OFFICE			I. Isofated nov	ls, no for Orternitents	
FLOW REQUE (N Time of Eval	(Hmita)	Dry diannet.in	NO WATE! (LOS	eneral)	
Gubiurface dox with instated envir					
Gubartice for with insided post COMMENTS					
Gubiurface face with Huasted prov COMMULTIS	r 61 m (200 ft) of channel)	Check ONLY one bo	axi,		
Guorantico for all individuo por COMALINTS     SINUOSITY (Number of bends per	er 61 m (200 ft) of channel) 1.0 1.5	Check DNLY one bo	жı Л	30	
Solution for with most edgess COMMUNITY SINUOSITY (Number of bends por 05 STREAM GRADIENT ESTIMATE	10	2.0	a D	>1 30	
Gubiurface face with Huasted prov COMMULTIN SINUOSITY (Number of bends por None	10	2.0	0	Severe	

	(Dresser)
CHELPERFORMED? - Tyes To No OHELScore (If Yes, Attach Completed GHELForth)	Stream Class 1
DOWNSTREAM DESIGNATED USE(S)	
WWH Kame Distance from the use at the second s	
CWH teams Distance from Evaluated Oreans	
Distance from Evolusied Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUCING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION	ON
SGS Quadrangle Name NRCS Soil Map Page NRCS Soil Map Page NRCS Soil Map Stream Orde	er
ounty Township / City	
MISCELLANEOUS	
ase Flow Conditions? (1/Al), Y Date of last precipitation Quantity	
halograph internation	
levated Turbidity? (V/N)N Canopy (% open)40	
/ere samples collected for water chemistry? (Y/H): (Note lab sample no. or id. and ettach results) Leb Number	
teld Measures Temp (°C) Dissolved Oxygen (mg/) pH (S U,) Conductivity (µmhos/cm)	
the sampling reach representative of the stream (YAL) Y If not please applies	
dditional comments/description of polution inserting	
ddiural commentaidesciption of polizion incents	
0.133.204	
<u>BIOTIC EVALUATION</u> erfamed <sup>a</sup> (V/R); N (If Yes, Record al desmalions. Vouchur asiedionsegilised INOTE at vasitive samples mut the biode	12

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): include repetiant laidsurves and other failures of interest for site volucition and a numerical description of the stream's because

PRVOI Form Page - 2

Pool FLOW Colone) 1.0' unde

AND DOMESTICS

antin Marine

ITE NAME #			THILT BOOTO	[	trics 1, 2, 3) :	Modifie
	LOCATION Context Haper - Haces				NAME OF TAXABLE PARTY.	Class
		3/24/16-7 RIVER BA				
	STREAM REACH (#)			ER CODE	RIVER MILE	
	9/2016 SCORER PS 17					
	VTIONS: VOTRATE (Estimate parcent of svery a of 40) Add (data number of significan BLOP SLABS (16 pts) BOULDER (>256 mm) (16 pts) BEDROCK. [16 pt] COBBLE (66-256 mm) (12 pts) SRAVE: (.26 dt mm) (19 pts) COBBLE (66-256 mm) (19 pts)	y type of substrate pre- it substrate types found RCEENT TYPE T C C S C C C C C C C C C C C C C C C C C	em, Chack ONLY iwo (Max of 8), Final metric SiLT (3 pl) LEAF PACK/WOODY FINE DETRITUS [3 ] CLAY or HARDPAN MUCK [0 pls]	predominani u scora is sum o i DEBRIS (3 pt pts]	PERCENT	HHEI Metric Points Substrate
00 🛁	SAND (<2 mm) [6 pts]		ARTIFICIAL [3 pis]			L
	Total of Percentages of Stabs, Boulder, Cobble, Bedrock	40(A)	TOTAL NUMBE	R OF SUBSTR	(B)	A+8
1 > 10	5 - 30 cm (20 pm) - 22.5 cm (25 pm) Withta	8	< 5 cm (5 pts) HO WATER OR MC	NST CHANNEL	1-1-1	
D >46	RK FOLL WIDTH (Measured as the a maters (* 13) [00 pc] m +4.Gm (* 17 * 13) [25 pts]		mmaka) (Chec ∕>1.0 m - 1.5 m (>3' ≤1.0 m (-3'3') [5 p			Bankfull Width Max=30
	ww.enu.e w +20 m to 4.9 3 1.) \$50 bot		AVERAGE B	ANKEULL WID	1.	5
	WATHIE WATHIE		1997	ANKFULL WID	1.	
cox	RIPARIAN ZOHE AND FLOODPL RIPARIAN WOTH RIPARIAN WOTH F (Per Bank) Wide>10m	AIN QUALITY IN FLOODPLAIN QUALITY L B Mast Press Majure Fore Immalure Fore	nust also be complete DTE: River Left (L) and	d	oking downstream a	5
ទល ភ្លៃ ការ	RIPARIAN ZONE AND FLOODPL RIPARIAN WOTH R (Per Bank) Wide > 10m Moderate 5-10m	AIN QUALITY AND FLOODPLAIN QUALIT L B Master Fore Mature Fore Field	nust also be complete DTE: River Left (L) and <u>P</u> minorit per flank) st Wetland arcst, Shrub or Old	id Right (R) as lo D D D D D	offing downstreams	2
CON L	RIPARIAN ZONE AND FLOODPU RIPARIAN WOTH (Per Bark) Web 2 tim Modenie 5-10m Narrow <3m	AIN QUALITY AND FLOODPLAIN QUALIT L B Master Fore Mature Fore Field	nust also be complete DTE: River Left (L) and <u>IV</u> minorit per filank) st Wetland arcst, Shrub or Old Park, New Field	id Right (R) as lo	oking downstream Conservation Tillage Urben or Industrial	
icox ກໍ່ກ່ ວາດ	NUPARIAN ZONE AND FLOODPL <u>RIPARIAN WODH</u> (Per Ban) Wode >10n Modenie 5-10m Narrow <5m None	AIN QUALITY Or A FLOODPLAIN OUALIT L 8 (Maai Prece Mative Fore Immature Fr Field Field Fenced Pass abon) (Check ONLY or	nust also be complete DTE: River Left (L) and Market per Back st Wetland sest, Shrub or Old Park, New Field ture Molsi Chann	ad Right (R) as to D D D D D D D D D D D D D D D D	VTH (myfors) oking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Mining or Construction ols, no flow (Intermittent)	<u>-</u>
icox ກໍ່ກ່ ວາດ	RIPARIAN ZOME AND FLOODPL RIPARIAN WODTH R (Per Fank) Wodes tan Modensie 5-10m Narrow San None COMMENTE FLOW REGIME (AI Tam of Event Stream Rowing Subsurble frow thin lacted spoots	AIN QUALITY Or R FLOODPLAIN QUALITY L B (Mast Press Malture Ford Malture Ford Field Field Fenced Pas abon) (Check ONLY or (Interstation)	nust also be complete TE: River Left (L) and M. masset per Bank) st Wetland verst, Sinub or Old Park, New Field lure le box)- Dry channel	ed Right (R) as fo	VTH (myfors) oking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Mining or Construction ols, no flow (Intermittent)	

CHELPERFORMED? . TYPE THE CHELSE	Contraction of the second s	Stream 4 Modified
	In this whach Completed QHEI Form)	Class 2
DOWNSTREAM DESIGNATED USE(S)	Designed from F. day of the	
	District from Every alto Stream	
D EWH Name.	Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUCING THE EXTEN		cite /
USGS Cuadrangle Minima NI		
County Terminia		
MISCELLANEOUS		
Base Flow Conditions? (Y/N) Date of last presiden	Ovant/dy	
Photograph Information		
Devaled Turbidity" (Y.N)		
Mere samplos collected for water chemistry? (Y/N) $\dot{N}$ (Note tab sam	np'e no or id and ottach results) Lab Number	
Field Measures Temp (*C) Dissolved Oxygen (mg/l)	pH (SU)Conductivity (µmhos/cm)	
s the sampling reach representative of the stream (Y/N) $\underline{\forall}$ . If not plea	ise augdure	
Additional comments/description of pollution impacts		
BIOTIC EVALUATION		
Performed? (Y/N)	ections optional NOTE: all voucher camples must be labeled v	with the site
IO number: Include appropriate field data sive	els from the Primary Head valar Habita' Accessment Manual)	
ish Observed? (Y/N) Voucher? (Y/N) Salemanders Observed?	ved? (Y/N) Voucher? (Y/N)	
rogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Ma	ucroinvertebrates Observed? (Y/N) Vouchar? (Y/N)	
Communits Regarding Biology		
DRAWING AND NARRATIVE DESCRIPTION OF	STREAM REACH (This must be completed)	
Include important landmarks and other features of interest for site	contration and a particular de completeur.	
		SHOO
1°00 and 50	a winde	
-1 we see	d 19	
C i	1 15 wide	
LOW BUILD		
gifter the start	6.K.	
6x+ 1 +		

PHWH Form Page - 2

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SITE NUMBER #	H-3/25/16 .	RIVER BASIN	DRA	UNAGE AREA (ml²)	Class
NGTH OF STREAM REACH (R)	LAT	LONG RIV	ER CODE	RIVER MILE	
NTE <u>3/23/16</u> SCORER <u>P3 R</u> NOTE: Complete All Items On This For	COM	MENTS 2 Photosical	Stylam		untions
		NEL FRECOVERED TRE			
TREAM CHANNEL ONNE / NA IODIFICATIONS:	TURAL CHAN	NEL (-TRECOVERED I)REC	OVERING L.	NECENT OR NO RECO	U EN F
			_		_
SUBSTRATE (Estimate percent of av (Max of 40), Add total number of signific	ery type of su cant substrate	bstrate present, Check ONLY hvo	predominant sa c score is sum o	Ibsirate TYPE boxes	HHE
YPE	PERCENT			PERCENT	Points
BLDR SLABS [16 pts] . BOULDER (>256 mm) [16 pts] .		LEAF PACKWOOD			Substrate
BEDROCK [16 p0]		FINE DETRITUS [3     CLAY or HARDPAN		-5	Max = 40
COBBLE (65-256 mm) [12 pls]     GRAVEL (2-64 mm) [9 pls]		CLAY or HARDPAN	to bd		3
SAND (<2 nm) [6 pts]		ARTIFICIAL [3 pts]			-
Total of Percentages of	15	(A)		(B)	A+B
Bidr Sibbs, Boulder, Cobble, Bedrock _ ORE OF TWO MOST PREDOMINATE SUB-			ER OF SUBSTR		
CALCENTRAL TRANSPORTS	0.312.00812			ash of the time of	Pool Depth
Maximum Pool Depth (Measure the I evaluation, Archit plunge pools that to	isaximum pee ed culverts or s	dom water pipes) (Check ONL)	rone box):	acti at the dilling of	Max = 30
> 30 centimaters [20 pts] > 22.6 - 33 cm [30 pts]		>5 cm - 10 cm [15	pts1		
1 # 22.5 - JU UN LAW MM					e
T ≥ 10 - 22.5 cm [25 pb]	_	O NOWATER OR N			5
☐ ≥ 10 - 22.5 cm [25 pts] COMMENTS		O NOWATER OR N	OLUT CHANNE	1. A.	5
COMMENTS		NOWATER OR N MAXIMUM 9	OLOT CHANNE	cardightara):	5 Bashtall
COMMENTS BANK FULL WIDTH (Measured as th > 40 meters (> 13/ [30 pts]	e average of 3	MAXIMUM ( MAXIMUM ( MAXIMUM ( MAXIMUM ( MAXIMUM (	COLDEPTH (		Sankfull Wildth
COMMENTS BANK FULL WIDTH (Measured as th > 40 meters (> 13) [30 pts] > 30 m - 40 m (> 7" - 13) [25 pte]	e average of S	NOWATER OR N MAXIMUM 9	COLDEPTH (	international and a second sec	
COMMENTS           BANK FULL WIDTH (Mensured as th > 40 meterer (> 13) [30 pts]           > 50 m -4 0m (> 677 - 137) [25 pte]           > 1,5 m - 3.0m (> 487 - 677) [20 pts]	ie average of 3	States of the second secon	CIEF CHANNE MOOL DEPTH ( ck ONLY one b 3'3' - 4'8') [15 p pre]	nos):	Width
COMMENTS BANK FULL WIDTH (Measured as th > 4,0 m etems (> 13') [30 pts] > 30 m − 4,0 m (> 9'7' − 13') [25 pts]	ie average of 3	States of the second secon	COL DEPTH ( COL DEPTH ( CK ONLY ONE D	nos):	Width
COMMENTE BANK FULL WIDTH (Mensured as th > 40 meters (= 13) [Bapts] > 50 m - 400 m eV 7 - 130 [Bapts] > 10 m - 30 m eV 8 m - 97 - 120 [Abs] COMMENTS RIPARIAN ZONE AND FLOOD	This i	Sem(5 ptr)     HOVATER OR     MAXIMUM J     HOVATER OR     MAXIMUM J     MAXIMUM J     MAXIMUM J     Store to the second se	OLDT CHANNE MOOL DEPTH ( ck ONLY one b 37 3" - 4"8") [15 p pro] DANKFULL WII	nox): noj OTH (moters)	Width
Соммента ВАНК FULL WIDTH (Mansured as th > 40 meters to 15) (Bapts) > 50 m - 40 m c 0° 7 - 150 (Sa pts) > 15 m - 3.0 m c 0° 8° - 10° (Sa pts) Соммента Віраним иотні Віраним иотні L R J. (Pre Bank)	This is DPLAIN QUAL FLOODP		CL R	antipefters):	Width
COMMENTS BANK PULL WIDTH (Mensured as th > 40 meters (b) 15/ (Bipts) > 30 m - 40 m f 07 - 13/ (25 ms) > 1.5 m - 3.0 m - 6 4 8" - 97 - 120 pts) COMMENTS RIPARIAN ZONE AND FLOOT RIPARIAN WIDTH L. R. (Per Bank) 	This I DPLAIN QUAL FLOODP L R		COL DEPTH ( NOL DEPTH ( ck ONLY one b 73 - 4'8') [15 p pro] DANKFULL WII led d Right (R) as k L R	conservation Tillage	Width
COMMENTE - BANN FULL WIDTH (Minipured as th - 4 Onetwork 10) (Biplet) - 5 Onetwork 10) (Biplet) - 5 Onetwork 10) (Biplet) - 1 Sim - 3 Dim C # 8" - 8"77 (20 PM) - COMMENTS - COMMEN	This I DPLAIN QUAL FLOODP L R C T		COST CHANNE MOOL DEPTH ( ek ONLY one b ysel DANKFULL WII ted d Right (R) as k L R 	Conservation Tillage Uchen or Industrial	Width
COMMENTS BANK FULL WIDTH (Minisured as th > 40 metains (15) [28]ed] > 50 m = 40 m = 60 * 7 * 121 (25 m) > 15 m = 3.0 m > 6 # 5 * 7 * 121 (24) COMMENTS RIPARIAN ZONE AKD FLOOT REPARENT VIOLE U Vide > 10m W Vide > 10m W Vide > 10m	This I DPLAIN QUAL FLOODP L R C C C C C C C C		CLET CHANNE NOL, DEPTH ( ck OMLY one b 3 3" - 4' 8') [15 p pro] DANKFOLL WII Ied d Right (R) as is c	contervation of Industrial Open Pasture, Row Crop	Width
COMMENTE - BANN FULL WIDTH (Minipured as th - 4 Onetwork 10) (Biplet) - 5 Onetwork 10) (Biplet) - 5 Onetwork 10) (Biplet) - 1 Sim - 3 Dim C # 8" - 8"77 (20 PM) - COMMENTS - COMMEN	This I DPLAIN QUAL FLOODP L R C T		COST CHANNE MOOL DEPTH ( ek ONLY one b ysel DANKFULL WII ted d Right (R) as k L R 	ooking downstreamSP Canservation Tillage Urban or Industrial Open Pasture, Row	Width
COMMENTS COM			CLET CHANNE NOL, DEPTH ( ck OMLY one b 3 3" - 4' 8') [15 p pro] DANKFOLL WII Ied d Right (R) as is c	contervation of Industrial Open Pasture, Row Crop	Width
COMMENTE BANK FULL WIDTH (Minimum dia stin > 0.0mmero 1:01) [05/14] > 0.0mmero 1:01 [05/14] > 0.0mmero 1:01 [05/14] > 0.0mmero 1:01 [05/14] COMMENTE COMMENTE L R., (Per Bandy Moderate 5-10m Natrow -Sm COMMENTE FLOW RECIME (AI Time of E) Brazen Rowing	This I PPLAIN QUAL FLOODP L R C C C C C C C C C C C C C C C C C C C		CLUT CHARGE ROL DEPTH ( ck OALY one to x 3" - 4" 8") [15 p proj DANKFULL WII ad Right (R) as is	oxi: mi DTH (meters) Corrienation Tilage Urban or Industrial Open Pastre. Row Corr Mining or Construction Mining or Construction work, on flow (Intermittent)	Width
COMMENTE           > 40 memory to 15/08 ptd)           > 50 m - 60 m + 67 - 15/18 ptd)           > 50 m - 60 m + 77 - 120 ptd)           > 50 m - 60 m + 77 - 120 ptd)           COMMENTS           RIPARUA ZONE AND FLOOT RIPARUA WOTH           R           Wide >10m           Moderne - 50m           Moderne - 50m           COMMENTS           FLOW RECAME (All Time of En           Bran Riving           COMMENTS	This I PPLAIN QUAL FLOODP L R C C C C C C C C C C C C C C C C C C C		CLET CHARAGE ROOL DEPTH ( ck ONLY one b 3 3" - 4" B") (15 pro) DANKFULL WII led d Right (R) as le ck Right (	oxi: mi DTH (meters) Corrienation Tilage Urban or Industrial Open Pastre. Row Corr Mining or Construction Mining or Construction work, on flow (Intermittent)	Width
COMMENTS COMMENTS COMMENTS COMPANY FUL WOTH (Ministrate at the Solon -40 min of 10 (Bojoti 1.5m -40 min of 97 -107 (25 rod) 1.5m -40 min of 97 -107 (25 rod) COMMENTS COMMENTS COMMENTS	This E DPLAIN QUAL FLOODP L R C C C C C C C C C C C C C		CLET CHARGE NOOL DEPTH ( ck ONLY OND be 37 - 4 °) (15 p prof DANKFUEL WIT ted d Right (R) as le L R	oxi: mi DTH (meters) Corrienation Tilage Urban or Industrial Open Pastre. Row Corr Mining or Construction Mining or Construction work, on flow (Intermittent)	Width
COMMENTS	This E DPLAIN QUAL FLOODP L R C C C C C C C C C C C C C		CLET CHARGE NOL DEPTH ( ck OAL Yone b prof DANKFULL WIT red d Right (R) as k c c nnel, isolated po nnel, isolated po c, no water (R o o s);	oxi: mi DTH (meters) Corrienation Tilage Urban or Industrial Open Pasture. Row Corrienation Tilage Urban or Industrial Open Pasture. Row Corrienation Tilage Urban or Construction Maing or Construction Maing or Construction Maing or Construction	Width
COMMENTE           PANK FULL WIDTH (Minisure dist in > 40 metains to 15) [Bird]           > 50 m - 60 m of 77 - 157 [Bird]           > 50 m - 60 m of 77 - 157 [Bird]           COMMENTS           RIPARIAN ZONE AND FLOOR REPARENT AND THE AND THE REPARENT WORTH AND THE Wide >10m           L R , (Fer Back)           W Wide >10m           Marrow -Sm           Name           COMMENTE           FLOW RECAME (MI Time of EN Bream Flowing)           Statuse to show the ideated of COMMENTE           ShiNOSTI (Number of bendie SINNOSTI (Number of bendie)	This E DPLAIN QUAL FLOODP L R C C C C C C C C C C C C C		CLET CHARGE NOL DEPTH ( ck OAL Yone b prof DANKFULL WIT red d Right (R) as k c c nnel, isolated po nnel, isolated po c, no water (R o o s);	conservation Tillage Ucean or Industrial Open Pasture, Row Cop Maning or Construction Maning or Construction Maning or Construction Maning or Construction	Width

ANTERNI LANDER HIMA	3/25/16 - 2 RIVER BASIN DRAINAGE AREA (m²)	
SILE NUMBER N/	ATLONGRIVER CODERIVER MILE	
E3/25/2016 SCORER PS R	COMMENTS	
	- Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Ir	nstructions
	RAL CHANNEL OR RECOVERED RECOVERING RECENT OR NOR	
	RAL CHANNEL CORECOVERED CORECOVERING TO RECEVE OR ING I	Loorent
ODIFICATIONS:		
SUBSTRATE (Estimate parcent of every	type of substrate present. Check ONLY two predominant substrate TYPE boxet	° L HHEL
	A substrate types found (Mex of B). Final metric score is sum of boxes A & B. ACENT TYPE PERCENT	Metric
BLDR SLABS [16 pis]	SILT [3 pt]	Points
		Substrate
		Max = 43
COBBLE (65-256 mm) [12 pts]		22
] ] SAND (<2 mm) [6 pts]		22
	(A) (B)	A+B
Bidr Bisbs, Boulder, Cobbie, Bedruck	28	
ORE OF TWO MOST PREDOMINATE SUBST	TOTAL NUMBER OF SUBSTRATE TYPES:	
Maximum Post Depth (Measure the mat	comum pool depth within the 51 meter (200 ft) evaluation reach at the time of	Pool Depth Max = 30
monuments Avoid plunge podis tram road > 30 centimaters [20 pts]	cutwets or storm water pipers) (Check ONLY one box): > 5 cm - 10 cm [15 pts]	Max = 30
> 22.5 = 10 cm [30 µta]	Sem (5 pts)	- 15
> 10 - 22.5 cm [25 pts]	NO WATER OR MORET CHANNEL [9 pin]	
COMMENTS	MAXIMUM POOL DEPTH (centingelers):	
TANK FULL MODTH (Nepergrad on the s		Bankfull
BANK FULL WIDTH (Measured as lite a > 4.0 molers (> 13) [30 pts]	Verage of 3-4 measurements) (Check OVLY one box):	Width
> 4.0 meters (> 13) [30 pts] > 3.0 m - 4.0 m (> 9'7'- 13) [25 pts]	verace of 3-4 measurements) (Check OVLY one box):	
> 4.0 meters (> 13) [30 pts]	Nerage of 3-4 measurements) (Check O/LY one box): → 1.0 m (> 3.3 m (> 3.3 m (> 3.3 m (> 15 m ()))) → 1.0 m (< 3.3 7) (5 ptd) → 1.0 m (< 3.3 7) (5 ptd) → 1.0 m (< 3.3 7) (5 ptd)	Width
> 4.0 meters (> 13) [30 pts] > 3.0 m - 4.0 m (> 9'7'- 13) [25 pts]	Verage of 3-4 measurements) (Check OVLY one box):	Width
>4.0 meters (> 13) [30 pts] >3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] >1.5 m - 3.0 m (> 4' 8' - 6' 7') [20 pts]	Norage of 3-4 measurements) (Check ONLY one box): > 1.0 m - 1.5 m (> 3.3 - 4'87) [16 pts] > 1.0 m (< 3.3 7) [5 pts] AVERAGE BANKFULL WIDTH (myders)	Width
> <10 mdems (> 13) [30 pte]     > <10 m (> 87' - 13) [20 pte]     > <10 m (> 30 m (> 4' 8' - 0' 7') [20 pte]     COMMENTS	Norage of 3-4 measurements) (Check ONLY one box): > 1.0 m - 1.5 m (-3 37 - 4 37) [16 pts] = 1.0 m (-3 37 - 1 37) [16 pts] = 1.0 m (-3 37 - 1 37) [16 pts] #4 AVERAGE BANKFULL WIDTH (myters) This information must also be completed AIN OVALITYANDTE: Rive (-10), and Right (R) as looking downstreaming	
> 4 0 mdem (> 13) B0 ptn]     > 3 0 m - 4 nm (> 17) 13 (25 ptn3)     > 3 0 m - 4 nm (> 17' - 13) (25 ptn3)     > 1.5 m - 3.0 m (> 4' 8' - 9' 7) (20 ptn)     COMMENTS	Norage of 3-4 measurements) (Check ONLY one box): 3-5 1.0 m - 1.5 m (> 3 <sup>-3</sup> - 4 <sup>-3</sup> ) [16 pts] 3-5 1.0 m (< 3 <sup>-3</sup> ) [5 pts] 4-4 VERAGE BANKFULL WIDTH (mysfors) This information must also be completed AIN QUALITY - MOTE River Left (L) and Right (R) as looking downstream	
> <10 mdems (> 13) [30 pte]     > <10 m (> 87' - 13) [20 pte]     > <10 m (> 30 m (> 4' 8' - 0' 7') [20 pte]     COMMENTS	Norage of 3-4 measurements)  (Check ONLY one box):  1.0m - 15m (> 3 <sup>-7</sup> - 4 <sup>-7</sup> ) [16 pts]  3.10m - (5 <sup>-7</sup> ) (5 <sup>-7</sup> + 4 <sup>-7</sup> ) [16 pts]  4.1m QUALITY  AVERAGE BANKFULL WIDTH (mysfors)  This information must also be completed AIN QUALITY  ANOTE Airco Loft (L) and Right (R) as looking downstreament  FLOOPILANC PORE, Within Conservation Tille  Must Prodeminant por Bank)  Conservation Tille	
> 14 Grandems (~ 12) [20 ptd]     > 3.0 m - 4.0m (~ 97 ~ 13) [22 ptd]     > 3.0 m - 4.0m (~ 97 ~ 13) [22 ptd]     COMMENTS     COMMENTS     RIFARIAN ZONE AND FLOODPI <u>BIPARIAN WOTH</u> L, ₽, / (Pe Bank)	Werage of 3-4 measurements)  (Check ONLY one box):  1.0m - 1.5m (-5.37 - 4'3) [15 pts]  1.0m - (.5m (-5.37 - 4'3) [15 pts]  4.1m - 1.5m (-5.37 - 4'3) [15 pts]  4.1m - 1.5m (-5.37 - 4'3) [15 pts]  4.1m - 1.5m (-5.2m - 4') [15 pts]  1.1m - 1	A-
> 4 (0 mdems (~ 13) (20 ptrd)     > 3 (0 m - 4 m (~ 97 ~ 13) (25 ptsd)     > 3 (0 m - 4 m (~ 97 ~ 17) (26 ptsd)     > 1 5 m - 3 (0 m (~ 97 ~ 17) (26 ptsd)     COMMENTS	Werage of 3-4 measurements)  (Check ONLY one box):  1.0m - 1.5m (-2.37 - 4/37) [16 pts]  3.10m (-2.37 - 4/37) [16 pts]  4.   AVERAGE BANKFULL WDTH Implers  This information guid sids be compiled  ANOTE: Five Laft (L) and Riph (R) as tooking downstream: FLOODELAIM CUALITY  C MULTIV - Forest, Weinard  Muture Forest, Weinard  C Muture Forest, Weinard  C Open Parkine, Rot  C Open Parkine	
> 4 Cli melenic (* 13) B0 prid]     > 3.0 m - 4.0m (* 17' - 13) (25 prid]     > 3.0 m - 4.0m (* 17' - 13) (25 prid]     COMMENTE      COMMENTE      IMARIAN ZONE AND FLOODPI      IMARIAN      IMARIAN ZONE AND FLOODPI      IMARIAN      IMARIAN      IMARIAN      IMARIAN      IMARIAN      IMARIAN      IMARIAN      IMARIAN       IMARIAN       IMARIAN       IMARIAN       IMARIAN       IMARIAN	Worage of 3-4 measurements)  (Check ONLY one box):  1.10 m - 15 m (-3 37 - 4 37) [16 pts] 3.10 m (-3 57) [5 md]  4.1 m - 15 m (-3 37 - 4 37) [16 pts]  4.1 m - 15 m (-3 37 - 4 37) [16 pts]  4.1 m - 15 m (-3 37 - 4 37) [16 pts]  1.1 m - 15 m (-5 - 37) [16 pts]  4.1	y Width
> 4 (0 meters (> 13) (00 ptrd)     > 3.0 m - 4.0 m (> 97 - 13) (25 ptrd)     > 3.0 m - 4.0 m (> 97 - 13) (25 ptrd)     > 1.5 m - 3.0 m (> 4' 8' - 9'7) (26 ptrd)     CoMMENTS      COMMENTS      IDARIAN ZONE AND FLOODPI     IDARIAN WIDTH     L	Werage of 3-4 measurements)  (Check ONLY one box):  1.0m - 1.5m (-2.37 - 4/37) [16 pts]  3.10m (-2.37 - 4/37) [16 pts]  4.   AVERAGE BANKFULL WDTH Implers  This information guid sids be compiled  ANOTE: Five Laft (L) and Riph (R) as tooking downstream: FLOODELAIM CUALITY  C MULTIV - Forest, Weinard  Muture Forest, Weinard  C Muture Forest, Weinard  C Open Parkine, Rot  C Open Parkine	y Width
> 4 (0 mdems (> 13) (00 ptrd]     > 3.0 m - 4.0 m (> 97' - 13) (25 ptsd]     > 1.5 m - 3.0 m (> 4' 8' - 9' 7) (26 ptsd]     COMMENTS	Werage of 3-4 measurements)  (Check ONLY one box):  1.0m - 15m (> 3''. 4''3) [16 pts]  3.10m (: 3''3') [5 pts]  4.   AVERAGE BANKFULL WDTH (myders)  4.   This information must also be completed  AN GUALTY'  4.   4.   4.   4.   4.   4.   4.   4.	y Width
> 14 0 mdem (> 12) [20 pt/d]     > 3.0 m - 4.0m (> 17. 31 (22 pt/s]     > 3.0 m - 4.0m (> 17 31 (22 pt/s]     > 1.5 m - 3.0m (> 41 8° - 977) [20 pt/s]     COMMENTS      COMMENTS      ILP ARIAN ZOME AND FLOODPI     ILPARIAN WIDTH     L	Werage of 3-4 measurements)  (Check ONLY one box):  1.0m - 15m (> 3''. 4''3) [16 pts]  3.10m (: 3''3') [5 pts]  4.   AVERAGE BANKFULL WDTH (myders)  4.   This information must also be completed  AN GUALTY'  4.   4.   4.   4.   4.   4.   4.   4.	C Width Width C C C C C C C C C C C C C C C C C C C
> 14 0 mdems (> 13) 00 prd]     > 3.0 m - 4.0 m (> 17. 3) (25 prd]     > 3.0 m - 4.0 m (> 17. 3) (25 prd]     > 1.5 m - 3.0 m (> 4' 8' - 9'7) (26 prd]     COMMENTS      COMMENTS      RPARIAN ZONE AND FLOODPI <u>IRPARIAN WOTH     RAVIAN WOTH     RAVIAN WOTH     RAVIAN WOTH     RAVIAN WOTH     RAVIAN ROME     Notemic S-10m     Notemic S-10m     Notemic S-10m     Note     COMMENTS     Stream Flowing     Stream Flowing     Stream Flowing </u>	Werage of 3-4 measurements)  (Check ONLY one box):  3-10 (Check ONLY one box):  (Check ONLY one bo	C Width Width C C C C C C C C C C C C C C C C C C C
> 14 00 mdems (> 13) B0 pt/d     > 13 on < 140 m (> 17, 13) pt pt/d     > 13 on < 140 m (> 17, 13) pt pt/d     > 15 m < 1.0 m (> 41 s <sup>2</sup> - 977) [28 pt/d     COMMENTE     COMMENTE     INPARIAN ZONE AND PLOODPI     INPARIAN WOTH     L B / (Per Bonk)     Yodo > 10m     Notemic 5-10m     None     COMMENTE     FLOW RECOME (At Time of Event     Statem Rowing	Werage of 3-4 measurements)  (Check ONLY one box):  3-10 (Check ONLY one box):  (Check ONLY one bo	C Width Width C C C C C C C C C C C C C C C C C C C
> 14 00 meters (> 12) 80 ptra]     > 3.0 m < 4.00 meters (> 12) 80 ptra]     > 3.0 m < 4.00 m < 97 - 13 (22) ptra]     > 1.5 m < 3.0 m (< 47 - 97 - 122) ptra]     COMMENTE      RUPARIAN ZONE AND FLOODPI     REARIAN WOTH     L 8 / Per Bank)     COMMENTE     COMMENTE     None     COMMENTE     Stream Ploying     Stream     St	Werage of 3-4 measurements)  (Check ONLY one box):  1.0 m15 m. (= 33' -4'8) [16 pts] 3 to (= (33') [6'8 pts] 4.1 O (=	C Width Width C C C C C C C C C C C C C C C C C C C
> 14 00 mdems (> 12) (20 ptrd]     > 3.0 m - 4.0 m (> 97 - 13) (22 pts]     > 3.0 m - 4.0 m (> 97 - 13) (22 pts]     > 1.5 m - 3.0 m (> 4' 8' - 9'7) (28 pts]     COMMENTE      INPARIAN ZONE AND FLOODPI     INPARIAN XONE AND FLOODPI     INPARIAN WIDTH     L & / P / Per Bank)     D' Wide > 10m     Nodemie > 10m     Nodemie > 10m     Nodemie > 10m     Nodemie > 10m     Saturn Flooting     Saturn     Saturn     Saturn Flooting     Saturn     Saturn     Saturn	Norage of 3-4 measurements)	C Width Width C C C C C C C C C C C C C C C C C C C
> 14 00 meters (> 12) 80 ptra]     > 3.0 m < 4.00 meters (> 12) 80 ptra]     > 3.0 m < 4.00 m < 97 - 13 (22) ptra]     > 1.5 m < 3.0 m (< 47 - 97 - 122) ptra]     COMMENTE      RUPARIAN ZONE AND FLOODPI     REARIAN WOTH     L 8 / Per Bank)     COMMENTE     COMMENTE     None     COMMENTE     Stream Ploying     Stream     St	Werage of 3-4 measurements)  (Check ONLY one box):  3-10 (Check ONLY one box):  4-4 (Check ONLY one box):  5-10 (	C Width Width C C C C C C C C C C C C C C C C C C C

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

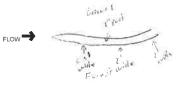
DOWNISTREAM DESIGNATED USE(S)       Distance from Evaluated Stream       Class 1         UWH Name:       Distance from Evaluated Stream       Class 1         Distance from Evaluated Stream       Distance from Evaluated Stream       Class 1         BWN Name:       Distance from Evaluated Stream       Class 1         BWN Name:       Distance from Evaluated Stream       Class 1         BWN Name:       Distance from Evaluated Stream       Class 1         BOG Subscripts Harre       NRCS Soil Map Page:       NRCS Soil Map Biream Order         BOG School sight Harre       NRCS Soil Map Page:       NRCS Soil Map Biream Order         MIBCELLANEOUS       NRCS Soil Map Page:       NRCS Soil Map Biream Order         MIBCELLANEOUS       Date of last predplation:       3/24/1/2016       Ouanity         Photograph Nationalize:	QHEI PERFORMED7 - O Yes O'No QHEI Scare (If Yes, A	Mad: Completed QriEl Form)	Stream 5
DWH Name:	WWH Name:	Distance from Evaluated Stream	
MAPPING: ATTACH COPES OF MAPS, INCLUDING THE DITLE WATERSHED AREA. CLEARLY MARS, THE STE LOCATION  DOG Ound single Name	CWHName	Distance from Evaluated Stream	
BODG Overdrangte Name			-
county:       Township / City         MICCELLANEOUS         Bases Flow Conditions? (r/A); <i>D</i> bete of last predplation:         3/2 - / / Lor / 6          Ouanity         Protograph laborations: <i>D</i> canopy (% open): <i>Z Z</i> Bases Clined Turbidity? (r/A): <i>D</i> canopy (% open): <i>Z</i> No: samples calleded for water chemostry? (r/A): <i>D</i> (Note lab sample no or kl, and sitach results): Lab Number         "rield Measures:          Tamp (*G)           Dissolved Oxygen fmot()          sithe sampling reach representative of the strasm (r/A). <i>Y</i> If noi, please agatain	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSH	ED AREA. CLEARLY MARK THE SITE LOCATION	
MIGCELLANEOUS         Base Flow Conditions? (Y/N):       M         Date of last predpilation:       3/2 4/2 0/6 /	UDGG Guadrangia Name NRCS Goil Ma	p Page: NRCS Soil Map Stream Order	_
MIGCELLANEOUS         Base Flow Conditions? (Y/N):       M         Date of last predpilation:       3/2 4/2 0/6 /	County: Township / City		
Nordpraph alternation:			
Bevaled Turbidly? (YNI):               Canopy (K open):              Z : - Z            Nere samples calleded for water chemistry? (YNI):              M. (Note leb sample no or ki, and attach results): Leb Number	Bese Flow Conditions? (Y/N): N Date of last predpilation: 3/24/2016	Ouantity:	
Nere samples addieded for water chemostry? (VRN)	Photograph Information		
Nere samples addieded for water chemostry? (VRN)	Elevated Turbidity? (Y/N): N Canopy (% open): Z		
s the sampling reach representative of the stream (YAN)_Y If noi, please asplaine	Were samples collected for water chemistry? (Y/N) $\underline{\mathcal{N}}$ (Note lab sample no or i	id, and altach results) Lab Number:	
Additional commentativescription of particilion Hisperta			
Additional commentativescription of particilion Hisperta	Is the sampling reach representative of the stream (Y/N) Y If not, please exclaim		
deBional commentativescription of potution Hoperta			
	Additional commentationscription of pollution impects		
	Is the sampling reach representative of the stream (VAI)_YI (Incl., please explain, Additional commentativescription of putuation impacts		_
	Performed? (Y/N): // (If Yes, Record all observations, Voucher collections opti	onal NOTE: all voucher samples must be tabeled with	the sile
Performed? (Y/N): (If Yes, Record all observations. Voucher collections optional NOTE: all voucher samples must be labeled with the elle	ID such as lumbulo outmodate field data sheafs from fire	Primary Mandumler Habital Assessment Marrials	

Fish Observed? (Y/N)\_\_\_\_\_\_ Voucher? (Y/N)\_\_\_\_\_\_ Salamanders Observed? (Y/N)\_\_\_\_\_ Voucher? (Y/N)\_\_\_\_\_ Frogs or Tadpoles Observed? (Y/N)\_\_\_\_\_ Voucher? (Y/N)\_\_\_\_\_ Aqualic Macroinventebrates Observed? (Y/N)\_\_\_\_ Voucher? (Y/N)\_\_\_\_

Comments Regarding Boboy

# DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):

include important landmarks and other features of interest for site evaluation and a nametive description of the stream's location



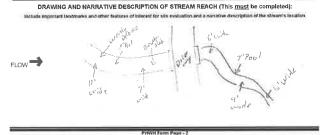
Are 24 282 Normal

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): Stream 6, Class 2 QHEI PERFORMED? - ] Yes No QHD Boore \_\_\_\_\_ (II Yes, Atlach Completed QHEI Form) DOWNSTRIEAM DESIGNATED USE(S)
WWH Name:
CW-Name:
EW-1 Name: Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION USSS Guadrangle Name NRCS Soil Map Page:\_\_\_\_\_ NRCS Soil Map Stream Order \_\_\_\_ County .\_\_\_ Township / City:\_\_\_\_ MISCELLANEOUN Base Row Conditions? (Y/N) \_ N \_ Date of last precipitation: 3/24/2016 Quantity.\_\_ Photograph Information: Elevated Turbidity? (Y/N): Y Canopy (% open): 15 Were samples collected for water chemistry? (Y/N): \_\_\_\_\_ (Note tab sample no. or id, and attach results) Lab Number Fleld Measures: Temp (\*C)\_\_\_\_\_ Dissolved Oxygen (mg/) \_\_\_\_\_ pH (S U.)\_\_\_\_\_ Conductivity (µmhos/cm)\_\_\_\_ Is the sampling reach representative of the stream (Y/N)  $\underline{\gamma}$  . If not, please mptants Additional commental description of publicion imports\_ BIOTIC EVALUATION DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Include Important landmarks and other features of Interest for site evaluation and a narrative description of the stream's location Wele Fall · and est FLOW -Panit form Page - 2 And in their stream.

49 (0.50) 19 (c)

NAMELOCATION Good Hope - Baies				
SITE NUMBER HIP- 3/11			RAINAGE AREA (15")	
IGTH OF STREAM REACH (#) LAT	COMMENTS Price		RIVER MILE	
TE: Complete All Items On This Form - Ref			WH Streams" for Instr	uctions
	CHANNEL RECOVERE			D/ERY
DIFICATIONS:	one office of the coverne	IN TRECOVISION	T THROUGH ON THE RECK	
				_
SUBSTRATE (Estimate percent of every type (Mex of 40). Add total number of sup-ficant sub-	of subsirate present, Chec training (Marior I)	K CALY (we predoty) on Final matrix score is suit	t substrate TYPE boxes	HHEI
PE         PERCEN           I         BLOR SLABS [16 pls]			PERCENT	Metric
BOULDER (>256 mm) [16 pts]		ACKAVOODY DEBRIS	pta]	
BEDROCK [16 pl] COBBLE (55-255 mm) [12 pls]		[sig t] UUTURTS		Substrate Max = 40
COBBLE (65-256 mm) [12 pls] GRAVEL (2-64 mm6 [8 pin]		HARDPAN [0 pl]		
SAND (<2 mm) [6 pls]		IAL [3 pls]		15
Totel of Percentages of (	(A)		(B)	A+B
Bidr Stabs, Bouldar, Cobble, Bedrock	15	TAL NUMBER OF SUBS		
				Pool Depth
Maximum Pool Depth (Meadaire Ine maximum evolution. Joint plunge pools from road culver	ts er störm water pipest (C	theck ONLY one box's	react of the bline of	Max = 30
> 30 centimaters (20 pts)				
		- 10 cm (15 pls)		
> 30 continuences [20 pis] > 22.5 - 30 cm [20 pis] > 10 - 22.5 cm [25 pis]	3 ×5cm		NEL (0 pin)	25
> 225 - 30 cm (26 pts) > 10 - 22.5 cm (25 pts)		(5 pts) NTER OIL MOIST CHANG	30 7	
225 - 30 cm (10 pts) + 10 - 22.5 cm (25 pts) COMMEN TS		(5 pts) NTER OR MOIST CHUNG RAXIMUM POOL DEPTH	(constraines): 7	25
> 225 - 30 cm (26 pts) + 10 - 22.5 cm (25 pts)	N North American Am American American Ameri American American Ameri America	(5 pts) NTER OIL MOIST CHANG	t (constructions): 7	
225 - 30 cm (25 pis) + 10 - 22 5 cm (25 pis) COMMENTS DANK FULL WIDTH (Measured as the averag > 40 meters (- 13) R0 pis) > 3 cm - 4 mr. 9 (7 - 13) [25 pre]	• of 3-4 measurements)	(5 pts) NTER OR MOIST CHUNG MAXIMUM POOL DEPTH (Check ONLY on	t (constructions): 7	2 <i>5</i> Bankhull
>> 225 - 30 cm (36 ps) + 10 - 22 5 cm (25 ps) COMMENTS DANK FULL WIDTH (Mrasured as the averag > 4.0 mders(> 13) (20 pt) > 3.0 m - 4.0 m + 07 - 13 (20 pt) > 1.5 m - 3.0 m < 4 ° - 6 ° - 12 (20 pt)	No WA No WA	(5 pm) MAXIMUM POOL DEPT) (Check ONLY on - 1.6 m (> 3.3" - 4"8") [1 - (< 3"3") [5 ptc]	(control 7 (control 7 e box): 5 pts) #th 70	2.5 Bankhull Width
225 - 30 cm (25 pis) + 10 - 22 5 cm (25 pis) COMMENTS DANK FULL WIDTH (Measured as the averag > 40 meters (- 13) R0 pis) > 3 cm - 4 mr. 9 (7 - 13) [25 pre]	No WA No WA	(5 pts) MER OH MOIST CHANG MAXIMUM POOL DEPTI (Check ONLY on - 1.5 m (> 3'3' - 4'8') (1	(control 7 (control 7 e box): 5 pts) #th 70	2.5 Bankhull Widih Max=30
	No WA No WA	(5 pH) AAXIMUM POOL DEPTI (Check ONLY en - 1.6 m (> 3 3' - 4''B) (1 (< 3'3') [5 pk] WERAGE BANKFULL V	(control 7 (control 7 e box): 5 pts) #th 70	2.5 Bankhull Widih Max=30
Source Series (Series)     Source Series (Series)     Source Series (Series)     Source Series (Series)     Source Series     Source	* 45 cm No WA • of 3-4 measuraments) 	(5 pH) AAXIMUM POOL DEPTI (Check ONLY en - 1.6 m (> 3 3' - 4''B) (1 (< 3'3') [5 pk] WERAGE BANKFULL V	20:         7           e box):         5 pts]           ####################################	2.5 Bankhull Widih Max=30
	e of 3-4 measurements) of 3-4 measurements) a t 1.8 m Dis (nformalion must also AUALTY DYNOTE River XDPLAN QUALTY B, (Mod Previousing) pe	(15 peri) ARAXIMUM POOL DEPTH (Chock ONLY on 1.5 m (-3 3 - 4 6) (1 (-3 3 ) [5 ptc] WERAGE BANKFULL V be completed Loft (J) and Right (R) e: r Bank) <u>L</u> R	Heading downstream®	2.5 Bankhull Widih Max=30
	e of 3-4 messurements) e of 3-4 messurements) > 10 m > 10 m	(5 peri) ATER OF MOIST CHANG ASXIMUM POOL DEPT (Check ONLY on - 1.5 m (> 3 3' - 4*8) (1 (<> 3 3') 5 pic) WERAGE BANKFULL V be completed Loft () and Right (R) er r Bank) C	Itentify     Image: Constraint of the sector o	2.5 Bankhull Widih Max=30
	e of 3-4 messurements) e of 3-4 messurements) > 10 m > 10 m	(15 peri) AAXIMUM POOL DEPTH (Check ONLY on - 1.5 m (> 5 3* - 4*8) (1 (<* 3*3) j6 pic) WERAGE BANKFULL V be completed L off (L) and Right (R) e * Banky L R	Itentify forst)     Image: Constraint of the sector of the s	2.5 Bankhull Widih Max=30
	A Some     Not Water     A Some     A S	[5 pei] VEFR OF WOIST CHANGE (Chock DALY on (Chock DALY on	Item in prices     Image: Construction of the construction o	2.5 Bankhull Widih Max=30
225 - 30 on php seal     10 - 225 cen (25 μs)     COMMENTE     C	** 56m     *********************************	[5 pei] VEFR OF WOIST CHANGE (Chock DALY on (Chock DALY on	Itentify forst)     Image: Constraint of the sector of the s	2.5 Bankhull Widih Max=30
	** 56m     *********************************	[5 per] VERF.OIL WARDER DOLL DEPTH (Chock ONLY on (Chock ONLY on 1.5 m (9.3 ° - 4.3) (1 1.5 m (9.	Itemitificants     Z       # box):     #       # box):     # <td>2.5 Bankhull Widih Max=30</td>	2.5 Bankhull Widih Max=30
225 - 30 cm (25 pm)     10 - 22 5 cm (25 pm)     10 - 22 5 cm (25 pm)     COMMENT 15     DANK FULL WIDTH (Weasured as the average     4 (Jonders) (- 13) (JO ptd)     2 Lm - 4 cm (PT - 12) (JO ptd)     2 Lm - 4 cm (PT - 12) (JO ptd)     2 Lm - 4 cm (PT - 12) (JO ptd)     COMMENTE		(5 eei) VERROIT VARTO CLAVA AAXIMUM POOL DEPTI (Chock OALY on 1.5 m 0 3 3 - e 8) [1 (Chock 0ALY on (Chock 0ALY on 0 3 3 - e 8) [1 (Chock 0ALY on 0 4 3 - e 8) [1 (Chock 0ALY on 0 4 - e 8) [1 (Cho	Image: Second	25 Bankhill Width Mac=30 2 c2
225 - 30 on pipetal     10 - 25 own (245)     COMMENTS	No with a second	(5 eei) VERROIT VARTO CLAVA AAXIMUM POOL DEPTI (Chock OALY on 1.5 m 0 3 3 - e 8) [1 (Chock 0ALY on (Chock 0ALY on 0 3 3 - e 8) [1 (Chock 0ALY on 0 4 3 - e 8) [1 (Chock 0ALY on 0 4 - e 8) [1 (Cho	Itemitificant     Z       e box):     #       s box):     #       # Doking downstream*     Z       Conservation Tillage     Urban or industriat       Open Pasture, Row     Row       Mining or Construction     Mining or Construction       pools, no flow (Intermitten)	25 Bankhill Width Mac=30 2 c2
222 - 30 cm pingégi 10 - 225 cm (25 m) 226 cm (25 m)		(5 ptr) WERK OIL WAIST CHAVE KAXIMUM POOL DEF/II (Charle OAK Yon 1.5 m (2 32 - 65) (1 (- 2 37) [5 pta] b campilated r.Lef (L) and Right (R) er Planth b co Old 	Itemitificant     Z       e box):     #       s box):     #       # Doking downstream*     Z       Conservation Tillage     Urban or industriat       Open Pasture, Row     Row       Mining or Construction     Mining or Construction       pools, no flow (Intermitten)	25 Bankhill Width Mac=30 2 c2
223 - 30 cm (Deptin)     10 - 225 cm (Spin)     COMMENT     DANK FULL VIDTH (Mrasured as the average     4 cm decry (- 13) (20 pt)     15m - 30m (- 4' cf' - 6' 7) (20 pt)     COMMENT     If Comment     If PARAM ZONE AND FLOODPLANC     If PARAM VIDTH     If COMMENT     COMMENT     FLOW REGIME (AT The of Evaluated)     Straim Torong     COMMENT     COMMENT     Simple Torong     Simple Torong     COMMENT     Simple Torong     Simple Toron	A Some	(4 peri) VERF OF WARD CLAVE (Check OALYon - 15m (2 33 - e 8) (1 - 15m (2 3 - e 8) (1 - 15m (2 - 8) (1 - 1	(reminificant)	25 Bankhill Width Mac=30 2 c2
	** 56m     *********************************	[5] \$FE]           Check 0ALY on           Discompleted           Check 0ALY on           Check 0ALY on           Discompleted           Check 0ALY on           Discompleted           Discompleted           Discompleted           Check 0ALY on           Check 0ALY on           Check 0ALY on water (           Col	Itemitificant     Z       e box):     #       s box):     #       # Doking downstream*     Z       Conservation Tillage     Urban or industriat       Open Pasture, Row     Row       Mining or Construction     Mining or Construction       pools, no flow (Intermitten)	25 Bankhill Width Macr20 20
223 - 30 cm (Deptin)     10 - 225 cm (Spin)     COMMENT     DANK FULL VIDTH (Mrasured as the average     4 cm decry (- 13) (20 pt)     15m - 30m (- 4' cf' - 6' 7) (20 pt)     COMMENT     If Comment     If PARAM ZONE AND FLOODPLANC     If PARAM VIDTH     If COMMENT     COMMENT     FLOW REGIME (AT The of Evaluated)     Straim Torong     COMMENT     COMMENT     Simple Torong     Simple Torong     COMMENT     Simple Torong     Simple Toron	** 56m     *********************************	(4 peri) VERF OF WARD CLAVE (Check OALYon - 15m (2 33 - e 8) (1 - 15m (2 3 - e 8) (1 - 15m (2 - 8) (1 - 1	transference     t	25 Bankhill Width Macr20 20

CHEI PERFORMED? - TYes YNO OHE Score	(If Yes, Altech Completed QHE) Form)	Stream 7 Modified
DOWNSTREAM DESIGNATED USE(S)	Distance Rom Evoluated Stream	Class 2
CWH Name:		
EWH Name:		
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE	INTRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION	
USGS Quedrengle Hame	NRCS Soil Map Page NRCS Soil Map Stream Order _	
County: Text	njbp/Oty	-
MISCELLANEOUS		
Base Flow Conditions? (Y/N) Date of last precipitation: 3	124/2016 Quantas	
Photograph Information		
Elevated Turbinity? (Y/N): N Canopy (% open): 75		
Were samples collected for water chemistry? (Y/N)		
Field Measures Temp (°C) Dissolved Oxygen (mg/l)	pH (S,U,) Conductivity (µmhos/em)	
Is the sampling reach representative of the stream (Y/N) Y If not	pisase estate	
	V	
Aditional comment/Insuration of polution impacts		
BIOTIC EVALUATION		
Performed? (Y/N): N (If Yes, Recard all observations, Vouch	her collections optional, NOTE: all voucher samples must be labeled wit die cheets from the Primary Heratandre Highlat Acsessment Marian	in the eile
Fish Observed? (Y/N) Voucher? (Y/N) Salamanders	Observed? (Y/N) Voucher? (Y/N)	
Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aque	efic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)	-



Art D. D.S. Front

ChieFEA P	rimary Headwater Habitat E	valuation Form	1040	ADDITIONAL, STREAM INFORMATION (This Information Must Also be Completed)
AND DESIDE WAS	HHEI S	core (sum of metrics 1, 2, 3) :	Stream 8,	QHEI PERFORMED7 - C Yes CHO QHEI Score (If Yes, All
SITE NAME COCATION	dier - Helluca		Class 1	DOWINSTREAM DESIGNATED USE(S)
CHTC	ENAMORE HH-JUST 4 DIVED BASIN	CRAINAGE AREA (ml²)		O WWH Name:
	LATLONG			CO CWH Name
LENGTH OF STREAM REACH (I	PSR convents Epicencial	Sticar		SWH Name
NOTE: Complete All Items I	On This Form - Refer to "Field Evaluation Mar	ual for Ohio's PHWH Streams" for Inst	tructions	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHE
STREAM CHANNEL	INONE / NATURAL CHANNEL TRECOVERED	RECOVERING RECENT OR NO REC	COVERY	USGS Quadrangle Name NRCS Soil Map
MODIFICATIONS:				County Tevnistip / City
1. SUBSTRATE (Estimate	percent of every type of substrate present, Check O	NI Y two predominani subsirale 7/72 boxes	1	MISCELLANEOUS
(Max of 40) Add total nu:	mber of significant substrate types found (Max of B). Fin	el metric score ls sum of boxes A & B	HHEI Metric	Base Flow Conditions? (Y/N) N Date of last precipitation 3/24/2016
BLDR SLABS [16 pts	TYPE SILT IS DI	PERCENT	Points	Photograph Internation
BOULDER (>256 mm	(16 pts)	WOODY DEBRIS [3 pts] 90	Substrate	Elevated Turbidity? (YAI): Canopy (% open): 30
BEDROCK [18 pt]		ITUS [3 pts]	Max = 40	
GRAVEL (2-64 mm)	(9 pts) O MUCK [0 pt		9	Were samples collected for water chemistry? (Y/N); $\_\mathcal{M}\$ (Note tab sample no, or pl
SAND (<2 mm) [6 pt				Field Measures Temp (*C) Dissolved Oxygen (mg/t) pH (S U )
Total of Percentage Bidr Siebs, Boulder, Coo SCORE OF TWO MOST PREDO	cia, Bediock6	(B) 3	A+B	is the sampling reach representative of the stream (Y/N) $\underline{Y}$ . Ji.nd, please equation _
2 Maximum Bool Death //	Measure the maximum root denth within the II and	ter (200 fg eveluation reach at the time of	Paal Depth	Additoral comments/description of polation impation
evaluation Avoid plunge > 30 centimeters [20 pts]	pools there read out-refs or storm water opens) (Chm	ck. OWLY on + boxy: 0 cm [15 pts]	Max = 20	
		PTN] R OR MORAT CHANNEL [0 pts]	. 0	·
> 10 - 22.5 cm [25 pts]		1 0		BIOTIC EVALUATION
COMMENTS		(IMUM POOL DEPTH (contributors):	1	Performed? (Y/N) (If Yes, Recard all obcarvations. Voucher collections option
3. BANK FULL WIDTH ING	asured as the average of 3-4 measurements)	(Check ONLY one box):	Bankfull	ID number. Include appropriate field data sheets from the
> 4 0 meters (> 13') [30 pla	] → 1.0 m - 1	5 m (> 3'3" - 4'8') [15 pts] 3'3") [5 pts]	Width Maxe30	Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N)
> 30m - 40m (> 9'T - 1 > 15m - 30m (> 4'8' - 6		() () [b p(s]		Frogs or Tadooles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvarteo
		+ 1 Z.O		Continents Reparding Biology
COMMENTS	AVI	RAGE BANKFULL WIDTH (myfers)	· · · · · · · · · · · · · · · · · · ·	
PIDA PIAN 70N	This information must also be E AND FLOODPLAIN QUALITY SNOTE: River Le	completed d () and Binhi (R) as looking downstream \$		
RIPARIAN WID		in (c) and high (if) as looking comments		DRAWING AND NARRATIVE DESCRIPTION OF STREAM
L B (Per Bank)	L.B. (Most Predominant per Ba	ank) LR		Include Important landmarks and other features of Interest for site evaluation
Wide >10m	Meture Forest, Wetland	Conservation Tillage		
Moderate 5-11	Rmi D Immature Forest, salua d Field	D D orban or mousing		1 / wide
Narrow <5m	Residential, Park. New Fi			19/12
III None	Fenced Pasture	Mining or Construction	an	dig clither de la
COMMENTS			-	FLOW -
	(At Time of Evaluation) (Check ONLY one box).		- 0	FLOW #
Stream Plowing	en indated poors in twistight	rist Channel, isolated pools, no flow (intermitte y channel no water (Ephemeral)	ni)	0.5
COMMENTS				المترج مر
SINUO SITY (Nu	mber of bands per 61 m (200 fi) of channel) (Check C	NLY one box):		
None 0.5	1.0 1 20 1.5 0 25	3,0		FLOW
STREAM GRADIENT E	STIMATE To Maderate (2 Urise #)	Moderate to Severe 110	R/*(00 B)	10 Million (1997)
				PHWR Form Page - 2
	PRWITForm Page - 1			

Stream 8, Class 1 EI PERFORMED7 - C) Yes CHO QHEI Score \_\_\_\_\_ (II Yes, Altach Completed OHEI Form) VNSTREAM DESIGNATED USE(S) Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream r...... PPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION ingle Name \_\_\_\_ NRCS Soil Map Page NRCS Soil Map Stream Order Township / City CELLANEOUS nditions? (Y/N) N Date of last precipitation 3/24/2016 Quantity\_ terration \_\_\_\_ idity" (Y/N): \_\_\_\_\_ Canopy (% open): \_\_\_\_\_ 3.0 s collected for water chemisiry? (Y/N): \_\_\_\_\_ (Note lab sample no, or id, and attach results) Lab Number es Temp (°C)\_\_\_\_\_ Dissolved Oxygen (mg/t) \_\_\_\_\_ pH (SU) \_\_\_\_\_ Canductfvity (umhos/cm) ng reach representative of the stream (Y/N)  $\underline{Y}$  . It not, please explains nments/description of polution imparts\_ TIC EVALUATION Voucher? (Y/N)\_ rgerding Biology\_\_\_\_\_ DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Important landmarks and other features of F for site evaluation and a narrative description of the stream's location / since inde .

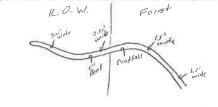
And in the Annual of

TENAMEROCATION Cover Hepe - He				Modif
SITE HUMBER HI	-J/2/14 - J AIVER BADIN		RAINAGE AREA (mi²)	Class
INGTH OF STREAM REACH (R)			RIVER MILE	_
ATE 3/25/2016 SCORER P3R	COMMENTS C 24			
NOTE: Complete All Items On This For	n - Refer to "Field Evaluat	ion Manual for Ohio's PH	WH Streams" for Instruc	tions
TREAM CHANNEL	TURAL CHANNEL CI RECO	VERED RECOVERING	RECENT OR NO RECOV	ERY
ODIFICATIONS:				
SUBSTRATE (Estimate percent of eve (Nex of 40) Add total number of signific	ry lype of substrate present,	Check ONL Y Iwo predominant	substrate TYPE boxes	HHEI
	ERCENT TYPE	ore) Herei mento sobre is som	PERCENT	Metric
ELDR SLABS M6 pts1	SIL SIL	.T [3 pl]	10	Points
BOULDER (>256 mm) [16 pts]		AF PACK/WOODY DEBRIB [J   E DETRITUS [3 pts]	pla] <u>28</u>	<b>Gubstrate</b>
BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts]		AY or HARDPAN [0 pt]		Max = 40
GRAVEL (2-64 mm) [9 pts]		JCK [0 pts]		A 1
SAND (<2 mm) [6 pts]		TIFICIAL [3 pts]		1
Total of Percentages of	U IN I		(8)	A+B
Bidr Stebs, Boulder, Cobble, Bedrock			3	
CORE OF TWO MOST PREDOMINATE SUBS	TRATE TYPES:	TOTAL NUNBER OF SUBS	RATE TYPES:	
Maximum Pool Depth (Measure the m			reach al the time of	Pool Depth
evaluation. Avoid plunge pools from roa > 30 centimeters [20 pts]	d culverts or storm water pipes	5 cm = 10 cm [15 pis]	l I	Max = 30
> 22.5 - 30 cm [30 pts]		5-em (5 pls]		$\leq$
> 10 - 22.5 cm [25 pts]				
	J N	O WATER OR MOIST CHANN	ELIQ ptal	
COMMENTS	, J. h	OWATER OR MOIST CHANK	14	
COMMENTS	average of 3-d measurement	MAXIMUM POOL DEPTH	(centingéters):	Barkfull
COMMENTS BANK FULL WIDTH (Measured as The > 4.0 meters (> 13) (30 pts)	average of 3-4 measurement 	MAXIMUM POOL DEPTH (Check OAL) one 1.0 m - 1.5 m (> 3 3" - 4"8") (15	(centingéters):	Width
COMMENTSBANK FULL WIDTH (Measured as the	average of 3-4 measurement 	MAXIMUM POOL DEPTH	(centinyéters):	
COMMENTS	average of 3-4 measurement 	MAXIMUM POOL DEPTH Is) (Check OVLY ener 1.0 m - 1.5 m (> 3 3' - 4' 8') (15 1.0 m (< 3 3') (5 pm)	(centurybiers):	Width
COMMENTS BANK FULL WIDTH (Measured as line > 4 0 meters (> 137) [30 pin] > 3.0 m - 4.0 m (≻ 0° 7° - 137) [25 pto]	average of 3-4 measurement 	MAXIMUM POOL DEPTH (Check OAL) one 1.0 m - 1.5 m (> 3 3" - 4"8") (15	(centurybiers):	Width
COMMENTS           BANK FULL WIDTH (Measured as the > 40 meters (> 137 [30 pm)           > 20 m - 4.0m (> 6' 7' - 137 [25 pto]           > 15 m - 30m (> 4' 8' - 9' 7') [20 pts]	average of 3-4 measurement 2 2 2 2	MAXWUM POOL DEPTH (Check OVL) Y one 1.0m - 1.5m (> 3'3' - 4'8') (13 1.0m (3 3'3') (5 ptg) AVERAGE BANKFULL W	(centurybiers):	Width
COMMENTS BANK FULL WIDTH (Measured as the > 40 meters (+ 13) (Boin) > 10 m. 40 m. 457 - 130 (Boin) > 15 m. 20 m. (+ 47 - 57 7) (2) (H) COMMENTE RIPARIAN ZONE AND FLOOD	average of 3-4 measurement 	MAXWUM POOL DEPTH (Check OVL) Y one 1.0m - 1.5m (> 3'3' - 4'8') (13 1.0m (3 3'3') (5 ptg) AVERAGE BANKFULL W	(conligéiers):	Width
COMMENTS SAIK FULL WIDTH (Measured as the > 40 meters (> 13) (20 pm) > 15 m - 40 m (> 47 - 13) (25 pm) > 15 m - 20 m (> 47 - 37 7) (20 ptd) COMMENTS RIPARIAN ZONE AND FLOOD <u>RIPARIAN WIDTH</u>	average of 5-4 measurement average of 5-4 measurement av	MAXIMUM POOL DEPTH           (Clear MAL) was           1.0 m - 1.5 m (> 3.3' - 4' B') (15           1.0 m (< 3' 3') (5 pra)	(conligéiers):	Width
COMMENTS BANK FULL WIDTH (Measured as the > 40 meters (+ 13) (Boin) > 10 m. 40 m. 457 - 130 (Boin) > 15 m. 20 m. (+ 47 - 57 7) (2) (H) COMMENTE RIPARIAN ZONE AND FLOOD	avwage of 3-4 messurement This information must FLAN QUALITY Arthours FLQDPLAIN QUALITY L R (Mark Predomin L R (Mark Predomin	MAXIMUM POOL DEPTH     (Cluek OMLY one     10 m - 15 m (> 33 - 4 8) (15     10 m (> 33 - 4 8) (15     10 m (> 37) (6 pro)     AVERAGE BANKFULL W     AVERAGE BANKFULL W     Also be completed     River Left (L) and Right (R) as     and per Banks     LR	(conligéiers):	Width
СОМИНЕНТВ ВАНК FULL WIDTH (Measured as the > 40 meters (+ 13) (Bip)() > 15 m - 40 meters (+ 6° 7° - 13) (Bip)() > 15 m - 20 m (+ 4° 6° 8° 7°) (2) (H) СОМИЕНТЕ КІРАЛКИХ ZONE AND FLOOD КІРАЛКИХ WIDTH Ц. В. (+ 6° Бал))	avarage of 3-4 measurament	MAXIMUM POOL DEPTH     (Cluek OMLY one     10 m - 15 m (> 33 - 4 8) (15     10 m (> 33 - 4 8) (15     10 m (> 37) (6 pro)     AVERAGE BANKFULL W     AVERAGE BANKFULL W     Also be completed     River Left (L) and Right (R) as     and per Banks     LR	(contropliers):	Width
COMMENTS COM	Avvrage of 3-4 messurament This information music FLAIN GUALITY - Avid Market FLOOPEAN OWALTY L R (Mark Predomic L Matther Forces, U Immisure Forces) Immisure Forces	MAXIMUM POOL DEPTH (c) Charles (2014) Years 1.0 m - 1.5 m (> 25 - 4 m) (13 1.0 m (> 75 - 16 m) MVERAGE BANKFULL W Atto ha completed River Left (L) and Right (R) as and per Bank L R R who ha completed River Left (L) and Right (R) as	(centryblers):	Width
COMMENTS  BANK FULL WIDTH (Measured as the > 4 Gmdas P 137 (Dep) > 15 m - 20 m (+ 6*7 - 57) 20 ski COMMENTs  RIPARIAN ZONE AND FLOOD INFACTAN MIDTH  C (** Bank) (*** Gmain) (************************************	Average of 3-4 messurement	MAXIMUM POOL DEPTH 10 Check OM/LY ever 10 The P33-487 (18 10 to 12 S 4 487 (18) 10 to 12 S	(contropiers):	Width
COMMENTS COM	Avvrage of 3-4 messurament This information music FLAIN GUALITY - Avid Market FLOOPEAN OWALTY L R (Mark Predomic L Matther Forces, U Immisure Forces) Immisure Forces	MAXIMUM POOL DEPTH (c) Charles (2014) Years 1.0 m - 1.5 m (> 25 - 4 m) (13 1.0 m (> 75 - 16 m) MVERAGE BANKFULL W Atto ha completed River Left (L) and Right (R) as and per Bank L R R with a completed River Left (L) and Right (R) as and per Bank	(centryblers):	Width
COMMENTS  COMMEN	Avvrage of 3-4 messurament	MAXIMUM POOL DEPTH (c) Check GML Years 100 ~ 150m (2 3 - 4 8) (1 - 2 - 4 8) (1 - 2 - 4 8) (1 - 2 - 4 8) (1 - 2 - 4 - 1 - 2 - 4 - 1 - 2 - 4 - 1 - 2 - 4 - 2 - 4 - 2 - 4 - 4 - 2 - 4 - 4	(contropiers):	Width
COMMENTS  SAUK FULL WIDTH (Measured as The > 0 Umders (> 13) (Duple) > 3 Um - 40 m (> 0'7' - 13) (Ds pto) > 1 5 m - 2 um (> 4'6' - 3'7) (20 pto) COMMENTE   RIPARIAN ZONE AND FLOOD <u>BIPARIAN ZONE AND FLOOD BIPARIAN ZONE AND FLOOD </u> UNders > 10m UNders	Average of 3-4 messurement	MAXIMUM POOL DEPTH (Check OV/LY even 1.3m - 1.5m (> 3.3' - 4' 8' 1) (Check OV/LY even 1.3m - 1.5m (> 3' - 4'' 8' 1) (Check OV/LY even (Check	(contropliers):	Width
COMMENTS           BANK FULL WIDTH (Measured as the > 40 midse (+ 13) (Borja)           > 32 mi - 40m (+ 6° 7°) - 130 (pt a)           > 15 mi - 20 mi (+ 4° - 8° 7°) (20 pt a)           COMMENTE           RIPARIAN ZONE AND FLOOD <u>RIPARAWUTH</u> L R. (+ (Per Bant)           Wide > 10m           Moderato 5-10m           Nation - 4min           COMMENTE           FLORE (- 10 min)           Steam Flowing           Steam Flowing           Steam Flowing	Average of 3-4 messurement	MAXIMUM POOL DEPTH     Check OM(1) Yen     10m -1 10m (2 3 3 - 48 7) [10m     (3 3 - 48 7) [10m     (3 3 - 48 7) [10m     (3 1 - 48 7) [10m	(contryptions): bend phal F7. IDDTH (mg/ms) F7. IDDTH (mg/ms) F7. Iooking downstreams Conservation Tillage Urben or Industrial Open Pasture, Row Crop Moning or Construction Secols, no flow (Intermitten))	Width
COMMENTS  COMMEN	Average of 3-4 measurement  This information must FLAIN QUALITY & NOTE  FLOODPLAIN QUALITY  This information for the medowing  Mathematics Freed  Residends al, Pan  Fried  Fried  Fried  Fried  Fried  Kustion  (Check ONLY one b  dos (Interstitut)	MAXIMUM POOL DEPTM s) (Check OKLY ener 1.0 m (2 33'-4" 87)ts 1.0 m (2 33'-4" 87)ts AVERAGE BANKFULL W also be completed River Left (L) and Right (R) as an per Bank (L) and Right (R) as (L) a	(contryptions): bend phal F7. IDDTH (mg/ms) F7. IDDTH (mg/ms) F7. Iooking downstreams Conservation Tillage Urben or Industrial Open Pasture, Row Crop Moning or Construction Secols, no flow (Intermitten))	Width
COMMENTS  BANK FULL WIDTH (Measured as the > 4 Gimeter br 17 (Darpa) > 10 meter br 17 (Darpa) COMMENTS  RIPARIAN ZONE AND FLOOD INFORMATION (Meter br 10 meter br 10 mete	Average of 3-4 messurement  This information must  PLAIN QUALITY  FICODPLAIN QUALITY  FICODPLAIN QUALITY  C  C  C  C  C  C  C  C  C  C  C  C  C	MAXIMUM POOL DEPTH s) (Check OM/LY even 1.0m -1.1m (> 3.3' - 4' 87) (13 1.0m (> 3.3' - 4' 87) (13 1.0m (> 7.3') (14) AVERAGE BANKFULL W also be completed River Left (L) and Right (R) es en per Bank (L) and Right (R) es (L) and Right (R) es (	(contropliers): text; phal +7. IDTH (mayna) F/. IDTH (mayna) F/. Iooking downstreamS Conservation Tillage Urben or industrial Opan Pasture, Row Crop Mening or Construction Sphemeral)	Width
COMMENTS  COMMEN	Average of 3-4 measurement  This information must FLAIN QUALITY & NOTE  FLOODPLAIN QUALITY  This information for the medowing  Mathematics Forest  Residends al, Pan  Residends al, Pan  Fanced Pasture  skustiony (Check ONLY one b dis (Inferstitut))	MAXIMUM POOL DEPTM s) (Check OKLY ener 1.0 m (2 33'-4" 87)ts 1.0 m (2 33'-4" 87)ts AVERAGE BANKFULL W also be completed River Left (L) and Right (R) as an per Bank (L) and Right (R) as (L) a	(contryptions): bend phal F7. IDDTH (mg/ms) F7. IDDTH (mg/ms) F7. Iooking downstreams Conservation Tillage Urben or Industrial Open Pasture, Row Crop Moning or Construction Secols, no flow (Intermitten))	Width
COMMENTS COM	Avvrage of 3-4 messurament This information muscle PLAIN GUALITY - ANOTE ELOOPEIAN OUAUTY L R (Most Predomin ) Matter Forces, U Find Predomin ) Residends, Pan Penced Pasture Check ONLY One b dot (kitersTilai) 1.0	MAXIMUM POOL DEPTH (Check OMLY even 10m - 15m (> 3.3' - 4'B 1)( 10m (> 3.9' - 4'B 1)( 10m (> 3.9' - 4'B 1)( AVERAGE BANKFULL W AVERAGE BANKF	(contropers):	Width

QHEI PERFORMEDV - 🗆 Yes 🛛 YNo QHEI Score (II Yes, Allach	Completed QHEI Form)	Stream 9
DOWNSTREAM DESIGNATED USE(S)		Modified
WWW Name		-Class 1
CWH Name:		
EWH Name:	Distance from Evaluated Satam	-
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED A	REA. CLEARLY MARK THE SITE LOCATION	<u> </u>
USGS Quadrangle Name NRCS Soll Map Pa	pe: NRCS Soll Map Stream Order	_
Countr Township / City,		
MISCELLANEOUS		
Base Flow Conditions? (Y/N): N_ Date of last precipitation 3/24/2.014	Quantity	
Photograph Information		
Elevated Turbidity? (Y/N): Canopy (% open): 6 (0		
Were samples collocted for water chemistry? (Y/N): (Note lab sample no, or kil, an	d ettach results) Leb Number	
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.)	Canductivity (µmhos/cm)	
Is the sampling reach representative of the stream (Y/N) Y If not please applies		
Additional commental/description of pollution impacts		
BIOTIC EVALUATION		
Performed? (Y/N), (If Yes, Record all observations. Voucher colladions optional ID number. Include appropriate field data sheets from the Pnm		the sile
Fish Observed? (Y/N)		
Cemments Regarding Biology		

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): arks and other features of interest for site weikustion and a nerr Include Incontent In volder rigition of the st

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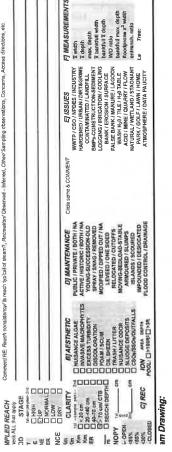
elc

Concerns. Access directions

consistency/ is reach typical of steam?, Recreation/ Observed - Inferred, Other/ Samping observations,

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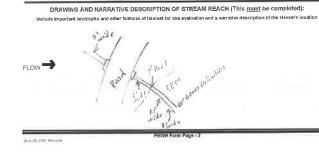




ENAMELOCATION				- N
STE NUMBER HI	-3/citit - C RIVER BASH			-
TE 3/25/2016 SCORER 32	COMMENTS Pricinial S	tiram		
	- Refer to "Field Evaluation Manual I	for Ohio's PHWH St	reams" for Instruction	s
	URAL CHANNEL ORECOVERED PR		ENT OR NO RECOVERY	
DDIFICATIONS:				
	y type of substrate presont. Check GMLY			
PE PE	int substrate types found (Max of 6). Final me ERCENT TYPE	drig ecore is sum of box	PERCENT Me	IEI tric
BLDR SLABS [16 pts]     BOULDER (>256 mm) [16 pts]	ERCENT TYPE	DDV (JEBRIS C) otel	Pol	nls
BEDROCK [16 pl]			Subs	= 40
COBBLE (65-256 mm) [12 pts]     GRAVEL (2-64 mm) [9 pts]	CLAY & HARDPI	ANI (0 p4)		<u> </u>
GRAVEL (2-64 mm) [9 pls] SAND (<2 mm) [6 pts]	25 O O MUCK [0 pts]	6]	9	1
Total of Percentages of	())		(B) A+	в
Bide Skebs, Boulder, Cobble, Bodrock XE OF TWO MOST PREDOMINATE SUBS	6	IBER OF SUBSTRATE	TYPES:	
The state of the s	aximum pool depth within the AI meter (25	A fit much suffrage and suffrage	Page 1	Depth
evaluation. Avoid plungs pools from road	Check Of 5 cm - 10 cm	(),Y ans hor)		= 30
> 30 centimaturs [20 pts]	-5 cm - 10 cm			
V > 22.5 + 30 cm [30 pfs]			2	2
> 22.5 - 30 cm [30 pts] > 10 - 72.5 cm [25 pts]		MOINT CHANNEL (0)	2 2 2	5
N = 552.0 + 30 cast Fad heal	NO WATER OR		7 7	5
<ul> <li>&gt; 10 - T2:5 cm [25 pts]</li> <li>COMMEN YS</li> <li>BANK FULL WIDTH Minasured as the</li> </ul>	MAXIMUM	MOIST CHANNEL (0) A POOL DEPTH (centi- heck ONLY one box):	gelara)	
222 - 222 - 222 cm [22 pit]     222 - 222 cm [22 pit]     COMMENTS     COMMENTS     COMMENTS     COMMENTS     COMMENTS     PAUNTOLE (2017)     (2017)     (2017)     (2017)     (2017)     (2017)     (2017)     (2017)	NO WATER OR MAXIMUM MAXIMUM	MOINT CHANNEL (0) A POOL DEPTH (cention heck ONLY one box): > 3'3"- 4'8') [15 pts]	intera):	
<ul> <li>&gt; 10 - 123 - 30 cm (25 pts)</li> <li>&gt; 10 - 123 cm (25 pts)</li> <li>COMMENTS,</li> <li>BANK FULL WEDTH (Measured as the &gt; 4.0 meters (&gt; 13) [30 pts)</li> </ul>	MAXINUM	MOINT CHANNEL (0) A POOL DEPTH (cention heck ONLY one box): > 3'3"- 4'8') [15 pts]		dth
223 - 30 tim (x) pint     10 - 72.5 cm [25 pint]     COMMEN 75     BANK FULL WDTW (Massured as the     > 4.0 mcters(> 13) [30 pis]     > 3.0 m - 4.0 m (> 8 T - 13) [25 pis]	→ 2011 (2003) NO WARTER OF MAXIMUM Average of 3-1 moasurements] (C) → 10 m - 15 m → 10 m (< X37)	MOINT CHANNEL (0) A POOL DEPTH (cention heck ONLY one box): > 3'3"- 4'8') [15 pts]		dth
2 22.2 30 0 m (20 μm) COMMENTS_ BANK VULL WOTH Massured as the 3-40 m des 0 × 13 (20 μm) > 40 m des 0 × 13 (20 μm) > 40 m des 0 × 13 (20 μm) > 15 m - 30 m (+2 ° · 4° · 13 (20 μm) = (5 m + 20 m (+2 ° · 4° · 12 (20 μm))	MAXIMUM MAXIMUM Merrage of J-I measurements Maximum Merrage of J-I measurements Merrage Maximum Merrage Merrag	MOINT CHAINEL (B ) A POOL DEPTH (centil heak ONLY one box): > 5 3* - 4 5 1 (15 pla] [5 pls] E BANDY ULL WIDTH ( Metad	refera): F + 21	dth
2 > 223 - 30 он (24 рец > 540 - 25 2047 (24 рец СОЧМЕН ТВ. ВАНК ЛИЦ, WOTH (Мазриней из the > 40 истер 10 (10 рец) > 40 истер 10 (10 рец) > 30 m 40 m. р. 9 7 - 131 (24 рец) > 30 m 40 m. р. 9 7 - 131 (24 рец) > 1.5 m 3.0 m. (-4 10 - 27) (20 рец) СОЧМЕНТВ. КІРАТІАН ZONE AND FLOODP	A mitro and a mitr	MOINT CHAINEL (B ) A POOL DEPTH (centil heak ONLY one box): > 5 3* - 4 5 1 (15 pla] [5 pls] E BANDY ULL WIDTH ( Metad	refera): F + 21	dth
	MANUALTR OF MANUALTR OF MANUALTR OF MANUAL	MOIST CHANNEL (B) A POOL DEPTH (centil heck ONLY one box); > 5° 3° - 4° 80 [15 pts] [6 pts] E BANDOULL WIDTH ( deted and Right (R) as booking L. R.	righters):	dth
	Adverse of a set of the set	ACCENT CHARACTER (B) A POOL DEPTH (contributed of the contributed of t	peters):	dth
	Advertise of a science of the second sc	ANDIAT CHARMEL (B) A POOL DEPTH (centre head ONLY one box): > 23 - 45) (15 pts]  6 pts] detail and Right (B) as booking L R Cov 	priners):	dth
2         2	A SUMPARE OF     ADVALUE	ANDIT CHANNEL (B) A POOL DEPTH (confis heak ONLY one box): > 33 - 4 60 [16 ptc]  6 ptc] E BANDTULL WOTH ( detail detail detail C C C C C C C C C C C C C C C C C C C	referenzia referenzia godornamente servacion Tilloge an or Industrial in Paduro, Row p	dth
	Advertise of a schwarts o	ANOINT CHANNEL (B) A POOL DEPTH (confid- heat: ONLY one box); > 37 - 4 6 (115 pts]  6 pts] E BANGTULL WOTH ( detail and Right (11) selectors C C C	ederations of the part of the	dth
PIC2 - SUBRING PRIM           PIC2 - SUBRING PRIM           SIG-T2 SORT (2) FIG           BANK VILL WOD'H (Maxmed as tile           BANK VILL WOD'H (Maxmed as tile           SIG-T2 SORT (3) Dott)           > 3 dm - dom (> P - T) (2) (2) (2)           > 1.3 m - 3.0 m (> P - T) (2) (2) (2)           R           IDM - VG P - T) (2) (2)           IDM - VG P - T) (2	Addressed	ANDIT CHANNEL (B) A POOL DEPTH (confis heak ONLY one box): > 33 - 4 60 [16 ptc]  6 ptc] E BANDTULL WOTH ( detail detail detail C C C C C C C C C C C C C C C C C C C	referenzia referenzia godornamente servacion Tilloge an or Industrial in Paduro, Row p	dth
22.5 - 30.6 m (24 m)     25 m (25 m)     COMMENTS	Adverter de     Adverter	A POOL DEPTH (centil heak ONLY one box): > 33 - 4 6 (145 pel) [6 pro] E BANKFULL VADTH ( detail and Right (15 as books) C	referant:	dth
PIC2:3.000F126100           PIC2:3.000F126100           COMMENTS	Adverter de     Adverter	MOINT CHANNEL (B) A POOL DEPTH (centil heck ONLY one box); 5 273 - (6) (15 pin] 6 proj E BANKOPULE WOTH ( detaid and Right (B) as boots; Co Co Co Co Co Co	referant:	dth
************************************	ADVALTER UN     ADVALTER UN     ADVALTER UN     ADVALTER UN     MAXIMUM     MAXIMUM     MARCHAR UN     MAR	A POOL DEPTH (cent) heck ONLY one box; beck ONLY o	and making and a second	dth
PLC2 - 2015 H (2014)           PLC2 - 2015 H (2014)           S16 - 172 Control (2014)           COMMENTS	A SUM JANK UN     AND VALUE     AND VAL	A POOL DEPTH (cent) heck ONLY one box; beck ONLY o	referant:	dth
# 24.3 - 30 on the prime           # 10 - 173 control (2) mini           COMMENTS	Additional and the second	A POOL DEPTH (cent) heck ONLY one box; beck ONLY o	and making and a second	dth

ONEL REREORMED 2 . TYPE TING OHE SC	We (If Yes Aligh Completed QHEI Form)	Stream 11
		Modified
DOWNSTREAM DESIGNATED USE(S)	Distance from Evaluated Stream	Class 2
CWH Name	Disconce from Evaluated Officern	
D EXCIL NAME:	Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDIN	IG THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION	
USGS Quedrangle Name	NRCS Soil Map Page: NRCS Soil Map Stream Order	
County	Texnip/City	_
MISCHLLANDOUS		
Base Flow Conditions? (Y/N) N Dele of Jost present	Num 312-112-16 Ouanbly	
Pholograph Information:		2
Bevaled Turbidily? (Y/N) Canopy (% open)	7.5	
Were samples collected for water chemistry? (Y/N):N	_ (Note lab sample no. or id and attach results) Lab Number	_
Field Mccoures Tornp (*C) Discolved Oxygen (	(mg/) pH (SU) Conductivity (pmhos/cm)	
is the sampling reach representative of the stream (Y/N)	If not, please explain	_
	0.0255	
Additional economitations riching of popular impacts		
BIOTIC EVALUATION		
Performed? (Y/N): (IFYes, Recard all observation ID number. Include appropria	ns, Voucher collections optional. NOTE: all voucher samples must be labeled with I ate field data sheets from the Primary Headwater Habital Assessment Manual)	hesie
Fish Observed? (Y/N) Voucher? (Y/N) Salar Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N)	manders Observed? (Y/N) Voucher? (Y/N) Acuatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)	
Comments Reparding Balogy		
12-357		

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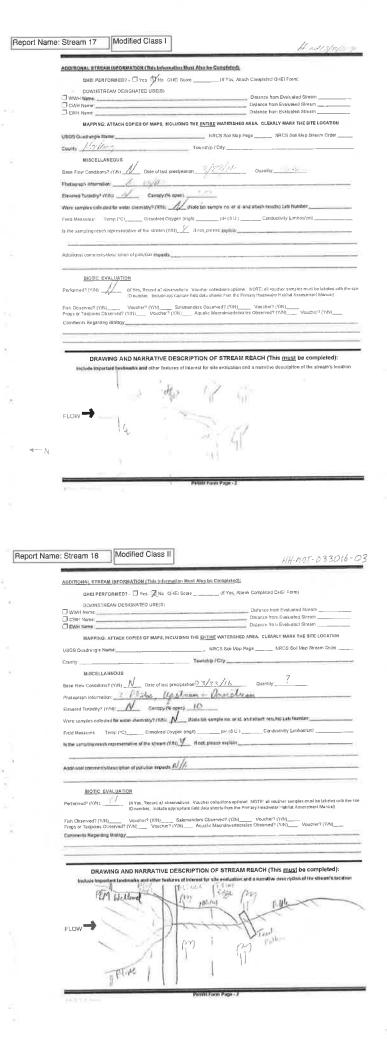
Report Name: Stream 12 Modified Class II	Report Name: Stream 12 Modified Class II HH-rot - 05/30/16-
	HH-PDT = 053/20/16      ADDITIONAL BITERAN INFORMATION LTOIS INformation West Also be Consisted.     Over the preprovide the preprovide of the preprovide of the previous of the presence from Evaluated Stream
BEDROCK (16 pt)     D     CORREC (65 298 mm) (12 pt)     CORREC (65 29	Were camples cellediad for watar chem lang? (Yh): <u>//</u> (Vere leb somple no or Vil an atlant neutral Lab Hamber Hato Measures Temp (*C
Matinum Pool Depth (Measure the maximum pool depth minin the 9 metro (28/0 (4 will soft reads in the Unit of the metro)     20 centimeters (20 pte)     22 5 3 dee 10 depth     25 and pool ben in cose culves in the soft soft water soft soft and the soft soft water soft soft soft soft soft soft soft soft	Add tonal comments description of polython imparts
This shown all an good alloc be completed         This shown all an good alloc be completed         NIPARIAN COLST I: first II and Right (R) as looking downsiteam &         HILERAIN WOOTH         L       R       (Mod PCR)         P       P       Read       Read         Moderale S-tom       R       (Mod PCR)       Read         Moderale S-tom       R       Readerabul Park, New Field       Conservation Tillinge         Name       R       Readerabul Park, New Field       Coopen Pasture         None       Fenced Pesture       Wining or Conservation         COMMENTS       Fenced Pesture       Wining or Conservation         Stream Flowing       Check ONL Y one box!       Dyckamel, no water (Cphenore)         Stream Flowing       Mod Channel, tooking pools, no flow (Internation)       Dyckamel, no water (Cphenore)         Stream Flowing       Stream Flowing       Mod Channel, tooking pools, no flow (Internation)         Stream Flowing       Stream Flowing       Stream Flowing       Stream Flowing         Stream Flowing       Stream Flowing       Stream Flowing       Stream Flowing         Stream Flowing       Stream Flowing       Stream Flowing       Stream Flowing         Stream Flowing       Stream Flowing	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed): Include Insected Induces and other formers of loss the evolution and a non-store strengthen of the thream's less after FLOW
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t Name: Stream 13 Modified Class II	
H- Add Stopper - 2	ADDIDORAL DTREAM INFORMATION (This Information Must Asso be Completed).
HHEI Score (sum of metrics 1, 2, 3) :	QHEI PERFORMED? - (] Yes () Yes () OHEI Score (If Yes, Atlach Completed QHEI Form)
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AN 1/3 // INTE NUMBER 08 RIVER RASH	Distance from Evaluated Stream
IN OF STREAM REACHING 2.00 AT LAT LONG	Distance from Evaluated Stream
	12
M CHANNEL ON NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY	USGG Que range Hung NRCS Soil Map Fage NRCS Soil Map Stream C
CATIONS: sore disturbance from pipeline	CountyTownship / Cay
the second state of a state of a state of the second of the second state of the state of the second state	MISCELLANEOUS
x of 40). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	
PERCENT TYPE PERCENT POINTS	1
EDROCK [16 pt] FINE DETRITUS [3 pt+] Max = 40	Elevated Turbidity? (Y/N) Ganopy (% open)
	Were samples collected for water chemisiny? (Y.N) (Note lab sample no or id and ettach results) Leb Number
	Sield Measures Temp (*C) Dissolved Oxygen (mg/) pH (S U.) Conductivity (µmhos/em)
	is the sampling reach representative of the stream (ViA) V (I not please explain
m Pool Depth (Measure the maximum pool depth within the fit mean (200 f) evaluation much at the time of Pool Depth	A didformal ensurements (discust all form of productions)
on, Avoid plumpe pasts from road culterits or storm water pipess (Check ONLY one bosy tradees (20 mts) 0 (195 sm - 10 cm (15 pls)	
50 cm (5 pts) 2 < 5 cm (5 pts) 2 < 2 <	
	BIOTIC EVALUATION
MAXIMUM POOL DEPTH (COMMANNE)	Performed? (Y/N)
FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Bankfull	A
40m (> 0'7'-13') [25 pte]	Fish Observed? (YA): // Vouche? (YA) Examiners Observed? (YA): Frogs of Tadpoles Observed? (YA) Advanter? (YA) Advanter? (Wal) Advanter? (YA)
- 2.0m p 4'8'- 2'7' (20 pto)	Connets Reputing Robay
ENTSAVERAGE BANKFULL WIGTH (meters)	
This information must also be convoluted	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ONOTE. River Left (L) and Right (R) as looking downstream or	
RIPARIAN WIDTH FLOODPLAIN GUALITY	
Wide > 10m CA. 30 Walling Forest, Wethand Conservation Tillage	Include important (and marks and other features of internet for site ovaluation and a nametive description of the stream
J Moderate S-10m VI VI Feld	A CHI Store I FOR DA
Narrow -5m     D     Residential, Park, New Field     D     Crop	
Stream Flowing May Channel, isolated pools, no few (Mamsterf)	1 P
	C III An is III III
REAM GRADIENT ESTIMATE	
	FRAM Form Page - 2
	4% (* * * * * * * * * * * * * * * * * * *
Almer Full, WOTH Meanung as the avoid ge of 1-4 measurements)       (Chock ONLY one body: (Chock ONLY one body: (C	Report Name: Stroom 14
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Chinese Primary Headwater Habitat Evaluation Form	ADD/DOI/A3, & FREAM INFORMATION (This Information Mass Area Der Completed);
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TE RANELOCATION DRAINAGE AREA (m <sup>il</sup> )	DDI/INSTREAM DESIGNATED USE/SI
NOTH OF STREAM REACH ID. 2. 001 LAT. LONG RIVER CODE RIVER MILE	CWH Name     Cistance from Evaluated Stream     Cistance from Evaluated Stream     Cistance from Evaluated Stream     Cistance from Evaluated Stream
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
TREAM CHANNEL ONONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY	UCOS Qued angle Name NROS Got Map Page NROS Got Map Strain Order
NODIFICATIONS: stren channel loses definition through product flows	CILLY, HUTCH
SUBSTRATE [Estimate percent of every type of substrate present, Creck ONLY <u>two</u> predominant substrate 7YPE boxes (Max of 40). Add Idal number of significant substrate lypes from (Max of 8). Find metric score is sum of boxes A & B. Type PERCENT TYPE PERCENT TYPE	Base Flow Conditions? (YA) Date of last prospilation
TYPE         PERCENT         TYPE         PERCENT         TYPE           D DID 0LA00 (16 pts)	Photograph information
BEDROCK (19 pl)     COBBLE (65-258 mm) [12 pls]     //     //     COBBLE (65-258 mm) [12 pls]     //     //     COBBLE (65-258 mm) [12 pls]     //	Elevated Tuttidys (YAI): Canapy (% open)
【□ GRAVEL (2:64 mm) (8 pls)	Were samples objected to water oranestry (Trin): (The rate set of a transfer to set or a set or object to the set of
Total of Percentages of Bidrock 10 (A)	Is the sampling teach representative of the stream (V/R) $\sum_{n=1}^{D}$ . If not please $e_{A_1}$ an _
INTER OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: CONTRACT, STORE STRATE TYPES: CONTRACT, STORE STRATE STORE STRATES STRATE STORE STRATES STRATE STORE STRATES	
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3 + 10 - 22 5 try [25 pts]	BIOTIC EVALUATION
COMMENTSNAXWUW POOL DEPTH (Second site average of 3-4 measurements) (Check ONLY one box): Barkfull	Performed? (VR)(if Yes, Record all costshations. Vauchir collections cplored: NOTE all two-duer scriptles invol be labeled with the set of the
BANK FULL WID IN (Measured as the awing of 3-4 measurements) [[[] [] [] [] [] [] [] [] [] [] [] [] [	Fais Octobered (1780
> 1.5m - 3.0m (> 4'8'-9'7) [20 pts]	Frogs of Telepisted Boogy
This bioinstition many also be completed supanian zone and FLOODFLAIN QUALITY OVIDTE. Hver Let (L) and Right (R) as booking downstream of RIDARIAN WOTH FLOODFLAIN QUALITY	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
L_R_(Per Bank) L_R_(Most Predominant per Beldk) L_R VIR Wide > 10m VI / Mature Potest, Welland III Conservation Tillage	Include Important landmarks and other features of Interest for site evaluation and a narrative description of the stream's local
A Moderate 5-10m Interview Forest, Shrub or Cid D D Urben or Industrial Field Department of Field	4-N Carlo All
Norre     Reydenbal Park, New Field     Crop     None     Fenced Pasture     Mining or Construction	· · · · · · · · · · · · · · · · · · ·
COMMENTS	FLOW
FLOW REGIME (Al Time of Evaluation) (Check ONLY one Base) Steam Flowing Dovation flow with with defaults (Intermitteni) Dovation flow with with defaults (Intermitteni) Construction	
SINUDERTY (Number of bends per 61 m (200 ft) of channel) (Check OAL Y one box)	
	and the stand
STREAM GRADIENT ESTIMATE D Flal (5 Surge)   Flal to Moderate   Moderate stream   Moderate to Severe   Severe streams	PRVNT From Paus - 2
PHIWH Form Page - 1	Benort Name: Stream 16 Class III
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Name: Stream 16 Class III Chapter Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) : 54	Report Name: Stream 16         Class III           AppthoHal STREAM INFORMATION (This Information Musi Ase be Completed);         If yes, Atlast Completed OrtEl Forat,
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Name: Stream 16 Class III Chieffic Addition Form HHEI Score (sum of metrics 1, 2, 3): HHEI Score (sum of	Report Name: Stream 16       Class III         Applitional STREAM INFORMATION [This Information Mus]. Also be Completed]:         OHEI PERFORMED7       Yes         Yes       Yes         OHEI PERFORMED7       Yes         Yes       Yes         OHEI PERFORMED7       Yes         Yes       Yes         OHEI PERFORMED7       Yes         OWNISTREAM DEDISMATED USE(6)       Datance for: Evaluated Stream         MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTITIE USE DATANCE       Datance for: Evaluate Stream
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U.	Primary H	reauwa	HHEI Scor	e (sum of metrics 1, 2, 3) :	2
SITEN	AMELOCATION	ر میشور . م	10,24		_
her	113/20116-9_SITE NUMBER_	04	RIVER BASIN	DRAINAGE AREA (ml <sup>2</sup> )	
LENGT	H OF STREAM REACH (8) 2001	LAT	LONG	RIVER CODE RIVER MILE	
DATE	3) Mar. 2016 SCOREN Mar 10 E: Complete All Items On This Forr	COMM	сита	A Chiele Dibitili Stroomp" for in	etrue
NOT					
STRE	AM CHANNEL ONNE /NA	TURAL CHANNI	EL MRECOVERED MR	ECOVERING CRECENT OR NO RI	ECOVE
MOD	IFICATIONS: Prior poper	1 Tram	provide prostruc	for any the second	
1	SUBSTRATE (Estimate percent of ave	ry type of subs	trate presert, Check OALY	wopredominani substrate TYPE boiss	T
TYPE	(Mex of 40). Add total number of signific	ERGENT		and sobre is sum of boxes A.5.0 PERCENT	
	BLOR SLADS [16 pits]		TYPE D (2 SILT (3 pt)	302	1
			D LEAF PACKWOO		
			CLAY OF HARDP		- Ir
	GRAVEL (2-64 mm) (8 pis)	20	MUCK [0 pts]		- 11
130	SAND (<2 mm) [8 pts]	10	C O ARTIFICIAL [3 pl		_  L
	Total of Percentages of	0 "	9	(B)	11
acon	Bidr Slabs, Bouider, Cobble, Bedrock	TRATE TYPES	TOTAL NUM	BER OF SUBBTRATE TYPES:	1
-	Maximum Post Depth (Measure the m			o fil evaluation reach at the time of	-
2,	evaluation Avoid stange pools from roa	d culverts or she	wm/waterroors) (Check Or	ILY one box	
8	> 30 certimeters [20 pts] > 22.5 - 30 cm (30 pts]		> 5 cm - 10 cm + 5 cm [5 pis]	15 pla]	-11
8	≥ 10 - 22.5 cm (25 pts)		I NOWATER OF	MOINT CHANNEL [0 pts]	71
	COMMENTS		MAXINU	A POOL DEPTHIERON TO SI	4
	BANK FULL MIDTH (Measured as the	svecage of 3-4		heck ONLY one box):	
B	> 4 0 meters (> 13') [30 pts] > 3 0 m - 4 0 m (> 8' 7" - 13') [25 pts]		> 1.0 m - 1.5 m	> 3' 3' - 4' 8') [15 pts]  5 pts]	
g	> 15m - 3.0m (> 4'9" - 6'7") [20 pts]		10000	1 1 1	11
	COMMENTS		AVERAD	E BANKFULL WIDTH-HITTIN	ЪŬ
	Comments		0.00023002		
			ormation must also be com	ileted and Right (R) as looking downstreams	
	RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH		VN QUALITY	and regin (re) as loaking downanceme	
	I, R (Per Bank)		Most Predominant per Bank)	L R Conservation Tillag	_
	Wide > 10m		feture Forest, Welland mmalure Forest, Shrub or Old	Urben or industriel	e.
	Moderate 5-10m		ld	On the Desider and Desi	
	Narrow <5m		Residential Park, New Field	Crop	
	COVMENTS	00 9	enced Pesture	Mining or Construct	:01
	/	afuellant after	in 200 by an a local		
	FLOW REGIME (AI Time of Eve Stream Flowing		Moist C	hannal, isolated pools, no flow (Intermi	ienl)
	Subsurface fibe with isolated po COMMENTS	ds (interstitial)	Finteren Orycha	nnel, no water (Epherneral)	
	a constant of the second se	10.000	1		
	None	per 61 m (200 f 1.0	Check ONLY	ane box) 🔲 3.0	
	Q 68 0	1.5	25	□ >3	
	STREAM ORACIENT ESTIMATE	1			
			In the series of Model	ale lo Severe 🛛 Severe II	

OF STREAM REACH COMPLETE ALL REACH COMPLETE ALL REACH COMPLETE ALL REACH COMPLETE ALL REACH COMPLETE ALL REACH SUBSTRATE (ES) IDS	ER <u>APT</u> s On This For	m - Refer to		SINRIVE		AINAGE AREA (m <sup>i7</sup> ) RIVER MILE	
CONTREAM REACH	CINONE /NA	m - Refer to	MENTS	IG RIVE			
Complete All Item M CHANNEL CATIONS:	ER ARTA	m - Refer te	WMENTS _	Protection that			
M CHANNEL			o "Field Eva				_
ICATIONS:		TURAL CHA		Justion Manual for C	hio's PHW	H Streams" for Instru	lons
SUBSTRATE (Eslipa	goline		NNEL 🗆 RI	ECOVERED RECO	VERING	RECENT OR NO RECO	VERY
SUBSTRATE (Eslima (Max of 40) Add Iolai		ROW					
(Max of 40) Add Iolal	e percent of eve	ery type of s	ubstrate pres	sent. Check ONLY INOP	recominent e	utstrate TYPE boxes	
	number of signific	ent subsinel PERCENT	e types found	(Max of B) Final metric o	core is sum o	PERCENT	HH
BLDR SLABS [16	pts]	PERCENT.		GILT () pl]		40	Poi
BOULDER (>256 r				LEAF PACKWOODY		6]	Subs
		5 .	00	CLAY or HARDPAN			Max
		15	90	MUCK [0 pis]			l r
		.7.0		ARTIFICIAL (3 pis)			<u>ن</u>
			(A)			(0)	A + I
		STRATE TYP	ES:	TOTAL NUNBER	OF SUBSTR	ATE TYPES:	
Maximum Pool Dapit	(Measure the m	naulmum po	ol depth with	in the 61 meter (200 FD	evaluation re	to enul sull te has	Pool D
evaluation. Anoid pice	pe pocts from ree	d dislorente or	observing and	igen) (Check ONCY')	ne box)		Max
22.5 - 30 am [30 pts	(S		ğ	< 5 cm (5 pts)		Conception 1 1 Destances	115
- 10 - 22 5 cm [25 pte		_	11		0.0000002	Dechie V	
COMMENTS				MAXIMUM PO	OL DEPTH (	entimeters);	_
		average of	3-4 measure	ments) (Check			Bank Wid
			2	≤ 1.0 m (≤ 3"3") [5 pi	s - 4 0 ) [12] 8]	···	Mas
15m - 30m (> 4'6"	- 9' 7") [20 pte]					K.d. 31	5
COMMENTS	_			AVERAUE BA	NKFULL WI	TH (meterer)	1
	_					_	
RIPARIAN ZO	NE AND FLOOD					oking downstream år	
	1DTH						
LR (PerBank)		bő.	Mature Fore	est, Welland	άñ	Conservation Tillage	
Moderaie 5	10m	(7) (R)		orest, Shrub or Old		Urban or industrial	
	1	2 2		Park, New Field	00	Open Paslure, Row	
					00	Crop Mining or Construction	
COMMENTS							
		slustion) (C	heck ONLY of	ne box)			
Stream Flowhg				Moist Channel	no water (Ep	ois, no flow (intermitteni) hemistal)	
COMMENTS							
	lumber of bends	per 61 m (20	0 ft) of channe	I) (Check ONLY one b	iox):		
None		1.0		20		3.0	
	BEDROCK (1992 br           COBILL (1992 br           GRAVE (2-40 m) (br           SAND (-42 mm) (br           Total of Percent           Bid Biday, Boolds, CO           Total of Percent           State of Percent           Bid Biday, Boolds, CO           State of Percent           Bank FULL WOTH (b           A Onderset > 130 (D9)           Addition - 30 m (> 4°)           COMMENTS           RIPARIAN ZO           RIPARIAN ZO           RIPARIAN ZO           RIPARIAN ZO           RIPARIAN ZO           Namow State           Namow State           Diverse           COMMENTS           FLOW REGUM           State Rowlp           State Rowlp           Cubardes F           BINUO BITY (h	BEDROCK         If ep 0           COMBLE (#0.25 mm) [12 unit)         GRAVEL (2.04 mm) [0 µ16]           GRAVEL (2.04 mm) [0 µ16]         Total of Percentages of           Total of Percentages of         Total of Percentages of           Bite Bitely, Bouder, Cobie, Bedroct, of         Total of Percentages of           Total of Percentages of         Total of Percentages of           Bite Bitely, Bouder, Cobie, Bedroct, of         Total of Percentages of           Common Pool Degitely (Messure den and State)         Total of Percentages of           20 continuents (20 µ16)         Cobie, Bedroct, of total state           20 continuents (20 µ16)         Cobie, Bedroct, of           20 continuents (20 µ16)         En (#0 et 15)           20 continuents         Cobie, Bedroct, of           1 for - 3.0 m (> 4 d' - 9'7) 20 percentage         Comments           20 microstema         File (Mither of Experimentage)           1 for - 3.0 m (> 4 d' - 9'7) 20 percentage         Comments           20 Mither of Experimentage         File (Mither of Experimentage)           1 for - 3.0 m (Mither of Experimentage)         None of Comments	BEDROCK (19 pt)	BEDROCK (Fe pd)	BEDROCK (rep)     Image: Control of the photock (rep)       Control of the photock (rep)     Image: Control of the photock (rep)       Control of the photock (rep)     Image: Control of the photock (rep)       SAND (of mm) (8 photock)     Image: Control of the photock (rep)       Total of Proceedings of the photock (rep)     Image: Control of the photock (rep)       Total of Proceedings of the photock (rep)     Image: Control of the photock (rep)       Total of Proceedings of the photock (rep)     Image: Control of the photock (rep)       Maximum Pool Dapin, (reps)     Image: Control of the photock (rep)       Solution: Ando paper (rep)     Image: Control of the photock (rep)       Solution: Ando paper (rep)     Image: Control of the photock (rep)       Solution: Ando paper)     Image: Control of the photock (rep)       Solution: Ando paper)     Image: Control of the photock (rep)       Solution: Ando paper)     Image: Control of the photock (rep)       Solution: Ando paper)     Image: Control of the photock (rep)       Solution: Ando paper)     Image: Control of the photock (rep)       Solution: Ando paper)     Image: Control of the photock (rep)       Solution: All on paper)     Image: Control of the photock (rep)       Solution: All on paper)     Image: Control of the photock (rep)       Solution: All on paper)     Image: Control of the photock (rep)       Solution: All on paper)     Image: Control of the	BEDROCK (Fe pl)       Image: Construction of the plot of the p	BEDROCK (rspd)       Image: Construction of the rest of the re



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	5-02 BITE NUMBER		RIVER BA				RAINAGE AREA (mi <sup>1</sup> )
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	All Items On This For	11	TANK THE PARTY OF	11	1 November 1970 Providence	Oblo's PHB	VH Streame" fot in
STREAM CHANN							RECENT OR NO RE
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O O BOULD	R (>256 mm) [16 pts]			LEAF P	ACKWOODY		is] <u>20</u>
	CK [16 pt]	15	00		ETRITUS () : r HARDPAN		77
GRAVE	(2-64 mm) [8 pts]	25	00	MUCK	(0 pls)		-
	2 mm) [8 pla]	40		ARTIFIC	CIAL [3 pis]		
Bidr Slabs, I	of Percenteges of louider, Cabble, Bedrock	15	(A)				(8) 5
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> 30 centime > 225 - 30 c	lors [70 pts]		8	= 5 cm	- 10 cm [15 ;		
1 + 10 - 22.6 0		_	Ő.		ATER OR MO	IST CHANNE	n.med a
COMMENT					MAXIMUM PC	OL DEPTH	(continuetors):
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COMMENT	· · · · · · · · · · · · · · · · · · ·	10.00			AVERAGE B/	NKFULL W	IDTH (meters)
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	RIAN ZONE AND FLOODF		LITY AND PLAIN QUALIT		r Leit (L) and	Righi (R) as i	looking downstreamນີ້າ
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CON	MENTS	_					
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Subs	where flow with isolated poo	ls (Interstit	±')	ō	Dry channel,		
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0.5	R	1.5			25	L	> >3

Ċ	HEI Score (sum of metrics 1, 2, 3)
SITE NA	MELOCATION Level (1998) (Association
HH-MD	T-033010-01 _SITE NUMEER RIVER DASM DRAINAGE AREA (mil)
	NOR STREAM REACH (E) 150/17 LAT_LONG. RIVER CODERIVER MILE
	Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions
	M CHANNEL ON NORE MATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY
	FICATIONS: Pupplied Roy
1	SUBSTRATE (Estimate percent of every type of substrate present, Check OV/LY two predominant substrate 7YPE boxes
TYPE	(Max of 40) Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B PERCENT TYPE PERCENT Metric
äB	
00	BEDROCK [16 pt] FINE DETRITUS [3 pts] Substrate Max = 40
00	GRAVEL (2-64 mm) [9 pts] // [] MUCK [1 pts]
M C	SAND (<2 mm) [8 pis] ATTEICIAL [3 pis]
	Total of Percentages of (III) A + B Bidr Sinbs, Boulder, Cobbie, Bedrock
	OF TWO MOST PREDOMINATE SUBSTRATE TYPES:
-	Maximum Peol Depth (Measure the maximum pool depth within the 61 meter (2001) instead on result at the time of exercision. Avoid alonge pools ham read culverts or shorn water pipes) (Check ONLY true back
$\Box$	> 30 ceremeters [30 pts] > 5 cm - 10 cm [15 pts] > 22 5 - 30 cm [30 pts] (9 + 5 cm [5 + 5 cm [5 pts] (9 + 5 cm [5 + 5
	- 10 - 22 á im 25 úrsi
-	COMMENTAMAXIMUM POOL DEPTH (centre)
	BANK FULL WIDTH (Its assured as the average of 5-4 measurements) (Check ONLY one bos): Bankfull >4.0 measure 137 (15 pts) I > 1.0 m - 1.5 m (> 3' 3' - 4' 8') (55 pts) Width Width
	- 10m - 40m (- 41" - 17) (26 pro)
	COMMENTSAVERAGE BANKFULL WIDTH (methans)
	This information <u>ust</u> at a as be completed
	RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstreem A
	L R (Per Bank) L R (Most Predominant per Bank) L R
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	ECOMMENT =
	Kork Recent Latin and De Polotiduary (chock offer Foreigned)     Moist Channel isolated pools, no flow (infermittent)     Dry channel no water (Ephemeral)
	COMMENTS

PHWH Form Page - 1

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-	IGNIONAL STREAM INFORMATION (This Information Must Also be Completed)
r.h	DHEI PERFORMED? I C Yes Alto OHEI Score (If Yes Altoch Completed OHEI Form)
	DOWNSTREAM DESIGNATED USE(S)
	With Name Distance from Evaluated Stream
	EWH
	NAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA CLEARLY MARK THE SITE LOCATION
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C	Township / City
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3	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
	include important landmarks and other features of interest for sile evoluation and a narrative description of the stream's lecali
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>15m - 30m (> 48'- 8'7) [20 pts]
This Information <u>multi</u> also be completed RIPARIAN ZONE AND FLOODPLAIN QUAUTY ÓNTE: River Lek (L) and Right (R) as looking downsteam ûr
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RIPARIAW WORTH     FLOODPLAN CUALITY     FLOODPLAN CUALITY       RIPARIAW WORTH     L B     (code Packing in per Bank)     L B       RIPARIAW WORTH     L B     (code Packing in per Bank)     L B       RIPARIAW WORTH     RIPARIAW WORTH     L B     (code Packing in per Bank)       RIPARIAW WORTH     RIPARIAW WORTH     L B     (code Packing in per Bank)       RIPARIAW WORTH     RIPARIAW WORTH     RIPARIAW WORTH     Conservation Tillage       Noterside 5-10m     Ripade Packing in per Bank)     L D     Urban or Indes/strail       RIPARIAW WORTH     Ripade Packing in per Bank)     L D     Urban or Indes/strail       RIPARIAW WORTH     Ripade Packing in per Bank)     L D     Urban or Indes/strail       Ripade S-10m     Ripade Packing in per Bank)     D     Urban or Indes/strail       Ripade S-10m     Ripade Packing in per Bank)     D     D       Ripade S-10m     Ripade Packing in per Bank)     D     D       Ripade S-10m     Ripade Packing in per Bank)     D     D       Ripade S-10m     Ripade Packing in per Bank)     D     D       Ripade S-10m     Ripade Packing in per Bank)     D     D       Ripade S-10m     Ripade Packing in per Bank)     D     D       Ripade S-10m     Riper Packing in per Bank)     D     D
RIPAGIAN WIDTH       FLOODPLAN CULATITY         Bit Performance       L R         Mode Performance       L R         Wide > 10m       Bit Millow Fordermain per Banky       L R         Mode Performance       Departure Forder         Mode Performance       Departure Forder         Performation 2 (Mode Performance)       Ubtan or Indepfind         Departure Forder       Departure Forder
RIPAGIAN WIDTH       FLOODPLAN CULATITY         B       (Periode Status)         B       (Periode Status)         Conservation Tilege         Diadwide Status       (Depen Peaking, Row Gene Peaking)         Notes       (Periode Status)         COMMENTS       (Periode Status)         B       (Periode Status)         Notes       (Periode Status)         Notes       (Periode Status)         Moder Tile       (Periode Status)         B       (Periode Status)         Notes       (Periode Status)         B       (Periode Status)         Moder Tile       (Periode Status)         B       (Periode Status)         Notes       (Periode Status)         B       (Periode Status)         Moder Tile       (Periode Status)         B       (Periode
RIPARALY WIDTH       FLOODPLAN SUBJICT       FloodProcentian Big of Bank)       L R (Conservation Tillage         ID River (Fe Bank)       L R (Mode = 10m)       L R (Mode = 10m)       L R (Mode = 10m)       Conservation Tillage         ID Narrow <ch< td="">       River (Fe Bank)       L R (Mode = 10m)       Conservation Tillage       Uban or industrial         ID Narrow <ch< td="">       River (Fe Bank)       Conservation Tillage       Uban or industrial         ID Narrow <ch< td="">       River (Fe Bank)       Conservation Tillage       Uban or industrial         ID Narrow <ch< td="">       River (Fe Bank)       Conservation Tillage       Uban or industrial         ID Narrow <ch< td="">       River (Fe Bank)       Conservation Tillage       Uban or industrial         ID Narrow <ch< td="">       River (Fe Bank)       Conservation Tillage       Conservation Tillage         ID Narrow <ch< td="">       River (Fe Bank)       Conservation Tillage       Conservation Tillage         ID Narrow <ch< td="">       River (Fe Bank)       Conservation Tillage       Conservation Tillage         ID Robit Education       Malkage Construction       Conservation Tillage       Conservation Tillage         ID Notes       River of Evelophic Robit Pask       Diry channet, Ino veter (Ephermene)       Conservation Tillage         ID Robit Diry (Humber of bends per 61 m (200 1) of channet)       Diry channet, Ino vete</ch<></ch<></ch<></ch<></ch<></ch<></ch<></ch<>
IPARIAN WIDTH I R (CRE Bank) I R (C

23, Modified Class 2	Stream 29, Modified Class 2
Chasta Primary Headwater Habitat Evaluation Form	AOOTIONAS, BITHLAM DIFORMATION (This Internation Ment Ann In-Completed).
HHEI Score (sum of metrics 1, 2, 3) : 32	OHEI PERFORMED2 - CI YES MILLIO OHEI Score (I' Yes, Allect Completed CHEI Formi
STE HANDLOCATION MATHING CONTRACTOR	DOWNSTREAM DESIGNATED LISES:
IEVOTU OE STREAM REACH (N) 202 LAT. LONGRIVER CODERIVER MILE	WHH Name     Distance from Evaluated Stream     Distance from Evaluated Stream     Distance from Evaluated Stream
DATE 3/25/11/2 SCORER (MS. MDT COMMENTS TN12/2017/11/17	EVGH (Jame)     Distance from Evaluated Stream
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for instructions	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATIO
	USGS Quadrengle Name NRCS Soi Map Pege NRCS Soi Map Stream Order
MODIFICATIONS:	Township / Cn.; MISCELLANEOUS
SUBSTRATE (Estimale percent of every type of substrate present. Check ONLY <u>two</u> predominant substrate TV/PE baxes (Max of 40). Add total number of significant substrate types found (Max of 8). Final miting score is sum of back A& 8 Metric	$Bese Flow Conclusors7 (YA) \underline{Y}$ Date of test progration $\frac{2}{2}/2.9710/2$ Quality
TYPE PERCENT TYPE PERCENT PRIOTS	
BLOP BLABS (15 pts)         Bill 3 pt.         200 Pt.         200 Pt.           BOULDER (>255 mm) (16 pts)         Image: Block (16 pts)         Image: Block (16 pts)         Substrate           BEDRACK (16 pts)         Image: Block (16 pts)         Image: Block (16 pts)         Substrate	Elevated Turbloly' (VRI) Canopy (% open) 20 %
COBBLE (69-256 mm) (12 pis)	Viero samples oplected for weller chemisiny? (YN),/ (Note tab semple no or to end anach results) Leb Number
SAND (<2 mm) (5 pts) 30 U ARTIFICIAL (3 pts)	Field Measures Temp (*CDissolved Oxysen (mg/t) pH ( 3 U ) Cenductivity (µmhos/cm)
Total of Porcentages of (B) Bldr Blabs, Boulder, Cobble, Bedrock (A) (A) (B)	Is the sampling reach representative of the stream (V/N)
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES.	
Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. And partice pools from reach outwarts of form writer poes;     (Check, Disk 21 meters)	Acctomal interventional angli en el policion impachi
Maximum Peol Depth (Measure the maximum peol depth manual set)     modulation And people people from two tests (Christs Obs Vines Heat)     set = 32     set	
117	BIOTIC EVALUATION
Constants Constants Bankfull Bankfull Bankfull Bankfull	Performant (VIN)
3. BARK POLL WOLD measure at the attention of the measure at the measure at the attention of the attention of the measure at the attention of the atten	Fish Observed? (YA) / Voucher? (YA) / Selmanders Observed? (YA) / Voucher? (YA)
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COMMENTSAVERAGE BANKPULL WIDTH (Balers)	
This briosmalion <u>musit</u> also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY 산가OTE: River Lsft (L) and Right (R) as looking downstream☆	
RIPARIAN WIDTH FLOODFLAIN GUADTY	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed)
創題 Wide >10m 用剤 Mature Forest, Welland UU Conservation Tillage	7.3 P00
Moderate 5-10m Field Open Pesiure, Row	at RICFLE ENVY
Narrow Com     Residential, Park, New Field     Coper Fiscal Cope     None     D    Kenced Pacture     Mining or Construction	CI COL AND REPORT
COMMENTS	
FLOW REGIME (AI Time of Evaluation) (Check ONLY one box) Wistram Rowing Stram Rowin	"Sale Internet
Subsyrface flow with (solited pools (interstitiel) [J] Dry channel, no writer (Ephemeral) COMMENTE	the second se
SINUOSITY (Number of bends per 81 m (200 ft) of channel)         (Check O/L/Y one box);         30           None         10         20         30           Finite         15         25         >3	0.50
□ None □ 1,0 □ 20 □ 30 □ 0.5 □ 15 □ 25 □ >3	A A A A A A A A A A A A A A A A A A A
STREAM ORADIENT ESTIMATE	NM -
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PI WII Form Page - 1	and the second
ream 24 - Modified Class 1	
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ream 24 - Modified Class 1	Stream 24 - Modified Class 1
ream 24 - Modified Class 1 ///-////-/237216-02 ChipEPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) : 23 HHEI Score (sum of metrics 1, 2, 3) : 23	Stream 24 - Modified Class 1
ream 24 - Modified Class 1 <i>IIII - MOL-D31216 - D.2</i> <b>ONCERN</b> Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) : 23 TERMANGECONTON SCORE HUMBER FOR BASIN	Stream 24 - Modified Class 1
Terram 24 - Modified Class 1	Stream 24 - Modified Class 1 ADOTTORIAL STREAM INFORMATION (This Information Must Also be Completed); OHEI PERFORMED7 - ] Yes 风No OHEI Score II' Yes, Attach Completed GHEI Form; DOWNSTREAM DESIGNATED USERS: Design from End. des Brain
Team 24 - Modified Class 1	Stream 24 - Modified Class 1
TRE DATE: CONDET AND THE CONTENT ON OF SHOWENG CONTENT OF SHOW	Stream 24 - Modified Class 1  ADD/TIONAL STEFAN INFORMATION IT IN Settem store Mark Also be Conselfed.  OKIE INFERNORRED? - Yes, 2 No. OKEI Bases
TREAM CHANNEL	Stream 24 - Modified Class 1
Team 24 - Modified Class 1	Stream 24 - Modified Class 1  ADOCTIONAL STEERAN INFORMATION Thes Information Must Also be Completed.  OHEI PERFORMED?- Yes JQ No. OHEI Score
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	Stream 24 - Modified Class 1  ADD/TIONAL STEEAN INFORMATION IT has between them that Analog Consolitors.  Once response to the control of the steel st
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Stream 25 - Modified Class I	5 0 3
HHEI Score (sum of matrics 1, 2, 3) : The NAME ADDITION OF MANY AND ADDITION OF MANY ADDI	
BUBSTRATE (Estimate percent of every type of substrate present, Check CML VIvog predominant substrate 7 V/FE bores (Mex of 40) Add total number of sign Attent substrate types forom (Mex of e)). Find metric score is sum of bores A & B.  Type BLDR SLABS [16 pts] BUD BLDR (325 mm) [16 pts] BLDR SLABS [16 pt	HHE Metr Poin Substra Mex = 13
2 Maximum Pool Death (Measure the maximum pool depth within the 61 meter (200 fit evaluation reach at the time of P	Pool De Max =
A. BALK FULL WIDTN (Messured as the average of 3-4 messurements)     Check OALV one box(:         → 4 C messor-(5) (8 prid)         → 3 c m = 4 - 0 (-7) (3 prid)         → 1 c m = 3 - 3 (0 messor)         → 1 c m = 3 - 3	Bankf Widt Max#
This infameation must also be completed       INFARLAN CLAUTY       RIPARLAN CLAUTY       AIRCTE River Left (1) and Rivet (R) as looking downstream &       RIPARLAN CLAUTY       L     R       (Per Bant)     L       R     (Most Predominari per Bankt)       Moderale 5-10m     Manure Forest (Nuclean Clauter)       Moderale 5-10m     D       Moderale 5-10m     D       Residential Park, New Field     Open Pablue, Row Crost       Name     Feesder Bankty     Manurg or Construction       None     Construction     Feesder Bankty       Construction     Feesder Bankty     Manurg or Construction	
FLOW REGIME (AI Time of Evelopilion) (Check DNLY one box) Bitwam Flowing Distants flow in historetgood (historitage) Distants converting Distance one will in historetgood (historitage) Distance (Ephemeral) COMMENTS	
SNU0 STY (Number of bandge pr El m (200 ft) of channel)         Chack OMLY one box);         30           None         1.0         20         3.0           0.5         1.5         2.5         >3	
STREAM GRADIENT ESTIMATE	t)

		aled Stream
	Distance from Evalua	ted Stream
] EWH Name	Distance from Evelue	led Stream
	OF MAPE, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MAR	
USGS Quadrangle Name	NRCS Soi Map Page NRCS S	ol Map Stream Order
County	Toenship / Dity	
MISCELLANEOUS	South AM)	
Build W Concilions? (Y/N)	13/21/16 2 ?	
Photograph Information		
Elevated Turbidity* (Y/N)	Canopy (Naccent) 35%	
Were samples collacted for vister cho	nistry? (YNV (Note tab sample no or id and attach results) Lab	Number
	Datalest Gropen (mpf)pH (5.0.1 Conductivity (s	
is the sampling reach representative	I the atream (VAI) If hall, please amplairs	
Additional comments Vescription of pr	interments N/A	
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## Stream 26 - Modified Class 1

Stream25 - Modified Class I

ADD/DONAL STREAM INFORMATION (This Information Must Also be Completed);

QHEI PERFORMED? - D Yes XNo QHEI Score \_\_\_\_\_\_ (II Yes, Artech Completed QHEI Form)

# his welt's for 110 P

111-MDT-031816-01

	HHEI Score (sum of metrics 1, 2, 3):	
TTE NAME ADCATION	C S RIVER BASIN DRAINAGE AREA (m <sup>2</sup> )	
ENGTH OF STREAM REACH M 150 11		¥ :
	m - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for instructions	2
07/02/24/02/34	TURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY	
	arelitation is provide REN	
(Max of 40) Add total number of signific           TYPE         BLDR SLABS (16 pis)           BOULDER (2558 mm) (16 pis)         BOULDER (2558 mm) (16 pis)           BOULDER (65,2538 mm) (17 pis)         BOULDER (65,2538 mm) (17 pis)           CRAVEL (244 mm) (17 pis)         BOULDER (17 pis)	pry type of substrate present. Check ONL Viego predominant substrate TYPE boxes misubstrates types found (Max of 8). Final metric score is sum of boxes A. Sa gencent present types of the present score of the state of the s	
Total of Percentages of	20 ARTIFICIAL (3 pls)	
Bidr Slabs, Boulder, Cobble, Bedrock	1 Sort below	
* 30 cer/limiters [20 pts]     * 22 5 - 30 cm [36 pts]     * 10 - 22 5 cm [25 pts]	d culureti or etore water piper 1 (check OME Yor book > 5 cm - 15 pig) + 5 cm (5 pig) + 5 cm (5 pig) - 5 cm - 10 pig	
COMMENTS		
BANK FULL WIDTH (Measured as the + 40 mmers (> 13) [30 pts] > 3.0 m - 40 m (> 6' 7' - 13) [23 pts]		
BARK FULL WIOTH (Measured as the + 4.0 million (> 12) (30 pits)	average of 3-4 measurements) (Check OLLY one box): Bankfull	n X
BARK FULL WIOTH (Measured as the + 40 means (> 17) [00 pt] > 2.0m - 4.0m (> 97 - 13) [23 pts] > 1.5m - 3.0m (> 47 - 97) [23 pts]	Average of 3-4 measurements - 10 m - 13 m (- 23 - 40) [15 pes) - 10 m (- 37 ) 23 - 40) [15 pes) - 10 m (- 37 ) 2 deal - 4 VERADE BANK/ ULL WIDTH (100 fmm)	ан Х С, У
BARK FULL WIDTH (Measured as the + 4.6 means): 17/100 ptd > 2.0 m 4.0 m (# 07 - 15)(25 std) > 1.5 m - 3.0 m (# 67 - 977)(20 ptd) COMMENTS	The information group also be completed  AVERAGE BANKFULL WIDTH (gamme)  This information group also be completed  Fundative algorithm of the given algorithm o	na x C V
BANK FULL WIDTH (Measured as the > 4.0 means) 127 (30 pic) > 3.0 m - 4.0 m (r 97 - 33)(25 std) > 1.5 m - 3.0 m (r 97 - 33)(25 std) COMMENTS COMMENTS REPARLAN ZONE AND FLOOOP <u>SIFARIAN ZONE AND FLOOOP</u> 1 R (Per Banh) C W do = 10 m		
BANK FULL WOTH (Measured as the     * 4.0 means (* 127 )00 ptd     * 3.0 m - 4.0 m (* 97 - 137)02 std     * 1.5 m - 3.0 m (* 97 - 137)02 std     * 1.5 m - 3.0 m (* 97 - 137)02 std     COMMENTS     COMMENTS     REPARLAN ZONE AND FLOODE     REPARLAN WOTH     L R (Per Dam)     Wode - 10m     Moderate 5-10m     Moderate 5-10m     None     None		
BANK FULL WOTH (Measured as the         A domesa (* 127 DB prid         A domesa (* 127 D		

QHEI PERFO	RMED7 - LIYes LYNO GHEISCORE	(If Yes, Allach Completed GHE Form)	
DOWNSTRE	AN DESIGNATED USE(S)		
WWH Name		Distance from Evaluated Stream	
		Distance from Evaluated Stream	
		Distance from Evatuated Stream	
MAPPING: A	TTACH COPIES OF MAPS INCLUDING T	THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCA	TION
JSGS Quedrangle Nan	10	NRCS Sel Map Page NRCS Sel Map Stream Or	dar
County		Township / City	
MISCELLAN	EQUS , /		
Base Flow Conditions?	(YA) Dale after predictator	n 3/21/16 OVIMIN JATACA	
Photograph Information	1	3 F	
Ervalet Turbidity" (Y/	NI AL CAPOPY (No COMO)	_80_	
Nere samples utilizates	the water chemistry? CONI	icte lab semple de lor a volation results Leb Number	
Feld Measures Te	mp (°C) Dissolved Oxygen (mg	A) pH (S U ) Contactively (unhoriton)	_
		If not, please explain	
is the same ingreech i	epicaentative di die siteaenternis		
kajsoral commentato <u>BIOTIC EV</u> A	escription of potuntos imparts		
BOTIC EV	u unnon 10 runner til unervision 10 runner til uter storenski 11 Vousing 1000 - Storens ervist vinn 21 Vousiner (100_	Varcher celestions reptimed INOTE all sandher samples much be later field and scherts have build hereit y tradicater Harold Assessment Scher ngers Gesenced ? (This:	#2:
BOTIC EV Parloamed? (YA) Parloamed? (YA), Flags or Tadpeors Cos	u unnon 10 runner til unervision 10 runner til uter storenski 11 Vousing 1000 - Storens ervist vinn 21 Vousiner (100_	Vauther collections epitonal. MOTE: all vauther samples mud he tata faid any sheets have bin Privary Headwater Harber Assessment Astro	#2:
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BODIC EV/ Parlormed? (VA) Prain Dover will reflect in opt or Tackness Do Commods Registrang	LUMTON C Yes, Report & Environment Vocatory Control Vision Strate Vision Badoge NG AND NARRATIVE DESCRI	Wardher collections reptictual INOTE all vandher tamples much he latas held zurg ohneth hans their Manary Haadwatter Hardwith Anneannet Hardwi nders Celuarued? (1995) — Wwenther? (1996) — Acadebic Macconvertisztates Conserved? (1996) — Acadebic Macconvertisztates Conser	ed):
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Stream 26 - Modified Class 1

Stand State Tenenumber	07	RIVEN BASIA		INAGE AREA (mil)	
ENGTH OF STREAM REACH (M) 2 CANE ATE 28 Hir 16 SCORER MDT	Bri CON	MENTS RIV	ER CODE	RIVER MILE	
NOTE: Complete All Items On This F	orm - Refer to	"Field Evaluation Manual for			
TREAM CHANNEL	NATURAL CHAN	HEL ARECOVERED GREC		RECENT OR NO RECO	DVERY
MODIFICATIONS:	turbance	from ppekse to	+tro Al-a	41	-
SUBSTRATE (Estimate percent of (Max of 40). Add total number of sign					нне
TYPE	PERCENT	TYPE	acore is sum o	PERCENT	Metri
BLDR SLABS [16 pts]		SILT [3 pl]	DEBRIS (3 pl	10	
BEDROCK [16 pl]		FINE DETRITUS (3			Substri Max =
COBBLE (65-256 mm) [12 pls]     GRAVEL (2-84 mm) [9 pls]	7.0	CLAY OF HARDPAN	[0 p1]		
D SAND (<2 mm) [6 pts]		ARTIFICIAL [3 pla]			14
Total of Percentages of	20	A		(B) percent	A+B
Bidr Sinbs, Boulder, Cobble, Bedrock	·	TOTAL NUMBE			
Maximum Post Depth (Measure the evenuation. Avoid plange pools trans-		Check OM V		ch at the time of	Pool De
> 30 cerdimeters [20 pts]		5 cm - 10 cm [15			-
> 225 - 30 cm [30 pts]		= 5 cm - 10 cm [15]	pnsj		1
> 10 - 22 5 cm [25 pin]	_	S cm - 10 cm [15		(hots)	5
□ > 10 - 22 5 cm [25 pHz] COMMENTS				245 221	-5
COMMENTA	the everage of 1	MAXIMUM P	DOL DEPTH (	uniters)	Backfi
COMMENTS BANK FULL WIDTH (Messured as I > 4.0 meters (> 13) (30 pts)	the everage of 3	MAXIMUM P MAXIMUM P -4 measurements) (Chec -> 10 m - 1.5 m (> 2*	DOL DEPTH (c NULY one bi 3'-4'8') [15 pt	andimitifica):	
COMMENTSBANK FULL WIDTH (Measured as I		MAXIMUM P(	DOL DEPTH (c NULY one bi 3'-4'8') [15 pt	andimitifica):	
COMMENTA		MAXIMUM P( -4 measurements) (Chec -> 10 m - 15 m (> 3 -> 10 m (≤ 3 3 7) B p	Not CHARACTER COL DEPTH (s k ONLY one bi 3"-4" 8") [15 pt de]	Acri D	
COHMENTS BANK FULL WIDTH (Messured as I > 4 Cinders (> 15) (30 pts) > 3 Cm - 4 0m (> 6'7' - 13) (25 pts)		MAXIMUM P( -4 measurements) (Chec -> 10 m - 15 m (> 3 -> 10 m (≤ 3 3 7) B p	DOL DEPTH (c NULY one bi 3'-4'8') [15 pt	Acri D	
COMMENTS BARK FULL WIDTH (Messured as 1 > 4 Cindery (* 17) (30 pts) > 3 Cin - 4 On (* 17* - 17 ) (20 pts) > 1 Sin - 3.0 m (> 4 CF - 67 7) (20 pts) COMMENTS	This b	MAXIMUM Pr -4 measurements) → 10 m - 15 m > 3 → 10 m (5 3 3 7 5 r AVERAGE B.	DOL DEPTH (s DOL DEPTH (s R ONLY one bi 3'- 4' 0') [15 pi 4s] ANKFULL WID	ration (East)	
COMMENTS 2.4. (FULL WIDTH (Messured as: 2.4. (Federa) (73) (30 / 41) 2.5. (64.00 / 6. 97 - 13) (23 / 49) 2.1. (92. 30 / 6. 47 - 19 / 7) (20 / 49) COMMENTS COMMENTS RIPARIAN ZONE AND FLOC RIPARIAN WORTH	This b DPLAIN QUALI FLOODPI	MAXIMUM P -4 measurements) (Chee → 10 m - 13 m p 2 -7, ≤ 10 m (5 3 0 7) Br AVERACE D. 10 mailion must also be complete TY 3HOTE: River Left(L) and ANO QUALTY	ANKFULL WID d Right (R) esloc	ration (East)	
COMMENTS SAIRK FULL WIDTH (Messured as 1 > 4 (in neuro (* 17) (80 pts) > 5 (m - 40 m (* 7' - 17) (25 pts) = 1 5 m - 3.0 m (> 6'' - 9'' 7) (20 pts) COMMENTS RIPARIAN ZONE AND FLOC <u>RIPARIAN ZONE AND FLOC</u> <u>RIPARIAN ZONE AND FLOC</u>	This b DDPLAIN QUALI <u>FLOODPI</u> L R	KAXIMUM P     Measurements     (Chee         → 10m - 13m  -33         < 10m (-533) Br         AveRAGE Br         AveRAGE Br         AverAGE Br         AverAGE Br         (Mod Precomplete Back)         (Mod Precomplete Back)         (Mod Precomplete Back)         (Bod PrecompleteBack)         (Bod Precom	ANT CHARACTER DOL DEPTH (c k OALY one bi 3"- 4" B") [15 pt de] ANKFULL WID d Right (R) estor L R	Annotation (Construction)	
COMMENTS SANK FULL WIDTH (Messured as 1 > 4 (in refere (17) (36 pta) > 3 (in - 4 00 pe (9 - 7) (7) (72 pta) 1 5 m - 3.0 m (> 4 (9 - 9 7) (20 pta) CONNENTS RIPARIAN 20NE AND FLOC RIPARIAN WOTH 1 & C (Per Beal) 2 (We > 10 m		IAXIMUM P     Add      A	ANKFULL WID d Right (R) esloc	calments as:	
COMMENTS COMMENTS COMMENTS Comments Comments Comments Comments Comments Comments Comments Comments Comments RipAriAn MOTH Comments C	This b DDPLAIN QUALI FLOODPI L R D D D D D D	In AXMUUS P     A measurements)     Chec     Y10 m -15 m -2     S 10 m -15 m -2     Average B	ANKFULL WID ANKFULL WID Right (R) estor	Annotation (Construction)	
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COMMENTS COMMENTS COMMENTS Comments Comments Comments Comments Comments Comments Comments Comments Comments RipAriAn MOTH Comments C	This b DDPLAIN QUALI FLOODPI L R D D D D D D	In AXMUUS P     A measurements)     Chec     Y10 m -15 m -2     S 10 m -15 m -2     Average B	ANKFULL WID ANKFULL WID Right (R) estor	All and the state of the state	
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	If Yes, Alach Completed GHEI Forma
DOWNSTREAM DESIGNATED USE(\$)	Durance from Evaluated (Distance
	Distance from Evaluated Stream
	NTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATIO
USGS Quedrangit Name	NRCS Soil Map Page NRCS Soll Map Stream Orde
Courty Tour	isligi / City
an address of the beauty	
Base Flow Conditions? (Y#J) // Date of last precipitation	5 Providence - Commence - Commence -
Base Flow Conditions? (Y/N) // Date of tast precipitation	04940
Photopics Warrelies	
Elevated Turbid Tyre (1996 Eantpy (16 rom)	6
there samples collected for waini chowsiny? (Y/K	
Field Measures Temp (*C) Dissolved Oxygen (mg/)	
Is the same ing reach representative of the stream (YIN) if not	please dag take
Additional commentations inplus of polarison linguist BIOTIC EVALUATION Reformed (1/d)	🛩 rolections astianal. NOTE: al vauenei samples must be labéled
BIOTIC EVALUATION (If Yes, Recald all datervations, Wouth (Dinumest, include appropriate field da	er rolections aplianal INOTE: at yourner sampler must be bedrod la skett/ borr the Pontary Headwriter Haz Lat Astersment Manume
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BIOTIC EVALUATION Performants (1781)	er rolections aplianal INOTE: at yourner sampler must be bedrod la skett/ borr the Pontary Headwriter Haz Lat Astersment Manume
BIOTIC EVALUATION Performants (1781)	er rolections aplianal INOTE: at yourner sampler must be bedrod la skett/ borr the Pontary Headwriter Haz Lat Astersment Manume
BIOTIC EVALUATION (If Yes, Record all conservatives, Waich 10 mmere, incude upprinter field ab Prob. Observed? (TVN) // Vouche? (If Ni) Salamenders Frigs or Taquees Observer? (TVI) // Vouche? (Yes) // Agu Commerks Regarding Biology	w statesions optional NOTE; is ourset samples must be labeled to disets for the Prinary Headwite Via: tel Assessment Maniper Observed? (VIN) Also Macromoster Alles Observed? (VIN) Also Macromoster Alles Observed? (VIN)
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BIOTIC EVALUATION Performants (1714) (1796, Recald all delevations, Walthold (1796, Recald all delevations, Walthold (1797) (1997) (1797)(1797)(1	w statesions optional NOTE; is ourset samples must be labeled to disets for the Prinary Headwite Via: tel Assessment Maniper Observed? (VIN) Also Macromoster Alles Observed? (VIN) Also Macromoster Alles Observed? (VIN)
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BIOTIC EVALUATION Performants (1714) (1796, Recald all delevations, Walthold (1796, Recald all delevations, Walthold (1797) (1997) (1797)(1797)(1	IN OPENING STATUS NOTE: BY OUTER SUMPLY MUST BE INDER to cheet for the Prinary Headware Hail Let Assessment Manuer Observul? (VIN) // Voucher? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) N OF STREAM REACH (This <u>must</u> be completed
BIOTIC EVALUATION Performants (1714) (1796, Recald all delevations, Walthold (1796, Recald all delevations, Walthold (1797) (1997) (1797)(1797)(1	IN OPENING STATUS NOTE: BY OUTER SUMPLY MUST BE INDER to cheet for the Prinary Headware Hail Let Assessment Manuer Observul? (VIN) // Voucher? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) N OF STREAM REACH (This <u>must</u> be completed
BIOTIC EVALUATION Performants (1719)	IN OPENING STATUS NOTE: BY OUTER SUMPLY MUST BE INDER to cheet for the Prinary Headware Hail Let Assessment Manuer Observul? (VIN) // Voucher? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) N OF STREAM REACH (This <u>must</u> be completed
BIOTIC EVALUATION Performants (1714) (1796, Recald all delevations, Walthold (1796, Recald all delevations, Walthold (1797) (1997) (1797)(1797)(1	IN OPENING STATUS NOTE: BY OUTER SUMPLY MUST BE INDER to cheet for the Prinary Headware Hail Let Assessment Manuer Observul? (VIN) // Voucher? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) N OF STREAM REACH (This <u>must</u> be completed
BIOTIC EVALUATION Performants (1719)	IN OPENING STATUS NOTE: BY OUTER SUMPLY MUST BE INDER to cheet for the Prinary Headware Hail Let Assessment Manuer Observul? (VIN) // Voucher? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) N OF STREAM REACH (This <u>must</u> be completed
BIOTIC EVALUATION Performants (1719)	IN OPENING STATUS NOTE: BY OUTER SUMPLY MUST BE INDER to cheet for the Prinary Headware Hail Let Assessment Manuer Observul? (VIN) // Voucher? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) and Macromonics of the Society of TYN) // Voucier? (VIN) N OF STREAM REACH (This <u>must</u> be completed

Form Page -

Stream 28 - Modified Class 1

Stream 27 - Modified Class 1

1.       SUBSTRATE (Estimate parcent of every type at substrate present, Check ON Y type predominal substrate TYPE boars	LENGTH OF STREAM REACH (C)	6 пілея вазія ат соло Л. сомменть 529.09	Miver code	AINAGE AREA (mi <sup>1</sup> ) MVEN MIE /H Streams" for Instruction	
Evenuetica. Accele proops proofs from rand cabortis of elements are press. (Check CMV Y are bot: - 300 cellifiers (20 pt) - 250 cellifiers (2	(Max of 40). Add (dati number of significa TYPE BLDR 6LABS (HB pla) BOULDER (>358 mm) (16 pla) COBBLE (65-258 mm) (12 pla) COBBLE (65-258 mm) (12 pla) GRAVEL (2 64 mm) (9 pla) GRAVEL (2 64 mm) (5 pla) Total of Parcentages el Bld Stible, Solder, Cobble, Barcek	A CENT TYPE ACENT TYPE CLEAR CLEAR	p) Final metric score is sum p() ACKWOODY DEBRIS (3 p ETHITUS (3 pm) ( HARDPAN (0 pm) 0 pts) CIAL [3 pts]	el constanti de la constanti d	tric nis traie
Alometen (a 17) (26) (a)     Sign (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	evaluation. Avoid plunge pools from road > 30 centimaters [20 pts] > 22.5 - 37 cm [30 pts] > 10 - 72.5 cm [25 pts]	culverts of stand water populy (0) S son CAL < S con NO W	Check ONLY one box's - 10 cm [15 pis] (3 pis] ATER OR MOUTT CHARGE	1900 0.5	
RIPARIAN ZONE AND FLODELINN GUALITY	> > 4.0 meters (> 13') [30 pts] > 3.0 m → 4.0 m (> 9' 7' → 13') [25 pts] > 1.5 m → 3.0 m (> 4' 6' → 9' 7') [20 pts]	□ > 1.8m ⊠ ≤ 1.0m	ι - 1.5 m (≥ 3'3" - 4'6") [15 μ ι(≤ 3'3') [5 ριε]	Ang Arect 11	llh :
Streem Forwig     Most Channel, Isdeled pools, no how (Intermittent)     Common (Intermittent)     Common (Intermittent)     SiNUO STY (Number of bands per 61 m (200 R) of channel, Ind (V) Y one box)     None     10	RIPARIAN WIDTH           R         (Par (pan))           N/02         Wide > 10m           Moderate 5-10m         Moderate 5-10m           Narrow <5m	AIN QUALITY ANOTE: Rive FLOODPLAIN QUALITY I R (Mod Die dominality of Mature Format Weiter Part Formative Format Weiter Field State Formative Format Weiter Field	r Left (L) and Right (R) as id e flankt IR d III abort Clat III v Field III	Conservation Tiliaga Urban or Industrial Open Pasture, Row Crop	
None 1.0 20 3.0	Subsurface flow with indicting model	Center striker			
	🖸 None 🔤	1.0 🗆 :	20		

- Modified Class 1	HE NOTE 032231
ADDITIONAL STREAM INFORMATION (This Information Must Also be Com	p[sted]:
GHEI PERFORMEDY - TYes (MNo GHE) Score()	
nowuteray des swates uses	
WWH Name	Dislance from Evaluated Stream
5 GHILLIAN C	Eislande fom Evaluated Stream
J LVIII (HERE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	
MAPPING ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WA	
USGS Quadrangle Name NRCS	
County Township / County	
MISCELLANEOUS	116 (Early AM) Oughtly ? Hearys
Base Flow Conditions? (YiN) Date of last precipitation	Quantity Preduce
Process Internet 2 Plate Upstern Proce	phien
Elevated Turbidity* (YTI) Canopy(% color)	
Were sempler controlled for water chamility? (Y/N) (those we sample	no or lif and aftern results) Lats Mumber
Field Messures Temp ("C) Dissolved Oxygen (mg/) P	H (S U ) Conductivity (pinhos/an)
is the sampling teach representative of the stream (YAN) / if not preases	wish
BIOTIC EVALUATION Performed? (1/N)	ond optional - NOT EI al voucher samples must be fabeled with from the Primary Hand water Habital Assessment Manuah
Fish Observed? (Y/N) Voucher1 (Y/N) Salamanders Observed Frogs of Teddolles Observed? (Y/N) Voucher2 (Y/N) Aqualic Macro	
Comments Regarding Biology	
DRAWING AND NARRATIVE DESCRIPTION OF S	TREAM REACH (This must be completed):
The second s	atuating and a parrallys description of the stream's local
P Hum Hand Pepeline &	and when the
PLOW - ( O Tholes	ant this
1 10%	V VINI

VH Form Page -

Stream 27 - Modified Class 1

Stream 28 - Modified Class 1

			,	MOT-032816
ChieEPA Primary I	Headwater H	abitat Evalu HHEI Score		
TE NAME COCATION				AMAGE AREA (m <sup>1</sup> )
ATE 03/28/16 BOORER DOUTE	RCOMMENTS	Ephemeral RIV	ER CODE	RIVER MILE
	TURAL CHANNEL	New do micro		RECENT OR NO RECOVE
BLDR SLABS (ffs pht)     BOULDR (>258 mm) (ffs pht)     BOULDR (>258 mm) (ffs pht)     COBBLE (65-256 mm) (ff pht)     GRAVEL (264 mm) (ffs pht)     GRAVEL (264 mm) (ffs pht)     Total of Percentinges of     Bdr Slabs, Boulder, Cobble, Bedrock	Enclaubstrate types four SERCENT TYPE SECOND	esenf. Check OVL Y two d (Max of 8) Final metric SILT [3 pt] LEAF PACKWOODY FINE DETRITUS [3, CLAY & HARDAAN MUCK [0 pts] ARTIFICIAL [3 pts]	score is sum DEBRIS (3 pi pis) [9 st]	(B)
CORE OF TWO MOST PREDOMINATE SUBS Maximum Pool Depth (Measure dre ra erituation: Austri plunge poors inner roo > 30 continueters (20 pts) > 22.5 - 30 cm (20 pts) > 10 - 22 cm (20 pts)	maximum pool depth w	thin the 61 mater (200 fr ( ppts) (Check UNLY	() evaluation re one boxy pls)	ach at the line of
COMMENTS		MAXIMUM P	DOL DEPTH (	centimeters):
BANK FULL WIDTH (Measured as the + 4.5 miles (+ 13) (36 pts) > 3.5 m + 4.0 m (+ 97 - 13) (25 pts) > 1.5 m + 3.0 m (+ 47 - 77) (26 pts) COMMENTS	in the second	J > 1.0 m - 1.5 m ≫ 3 ⊴L s1.0 m is <b>3 3 1 (5</b> )		Beit 21
7976-1778-		1//08-14	11/11/2 = 204 	
RIPARIAN ZONE AND FLOOD	FLOODPLAIN QUA		Right (R) as lo	ooking downstream ນີ້
L R (Per Bank)	Meture Fo	dominant per Bank) west, Wetland	άů	Conservation Tillage
Moderale 5-10m	명 丞 Immature Field	Forest Shrub or Old	00	Urben or Industne
Narrow <5m	Resident	al Park, New Field	00	Open Pasture, Row Crop
COMMENTE Public	The Fenced P	the mound	00	Mining or Construction
FLOW REGIME (At Time of Evi Stream Rowing	aluation) (Check ONLY	one box)	nei, isoʻated po , no weler (Ep	ols, no flow (intermittent) hemeral)
COMMENTS TURNET			box)	
SINUOSITY (Number of bends Nane 0.5	per 61 m (200 ft) of char 1.0 1.5	20 25	2	3.0 >3

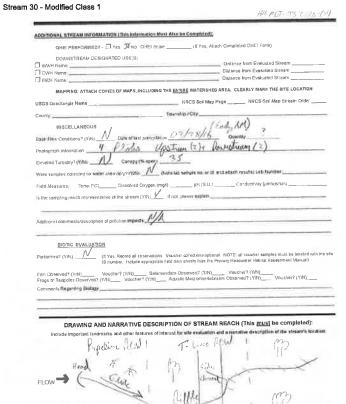
QHEIPERFORMED7 - Yes VNO QHE	Score (If Yes, Atlach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WAVE Nome	Distance from Evaluated Stream
CWH Marine	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
MAPPING, ATTACK COPIES OF MAPE, INCLU	DING THE ENTINE WATER SHED ANEA. CLEARLY MARK THE SITE LOCATION
USGS Quadrengie Name	NRCS Soil Map Page NRCS Soil Map Stream Order
County	Township / City
MISCELLANEOUS	1 1 Contended of
MISCELLANEOUS Base Frow Conditions? (VAI) N Data efficiency	grater D 3/ 23/16 Guanty
Photos aprinformation 1 Platy	(policen (2) + powneticent2)
Bevare Turbiology (mate A/ Canady (% no	
Were samples collected for water chemistry? (Y/Nr	
	en [mgA] pH (S U ) Canductivity (umhos/um)
	If not please explain
is the sempling reach representative of the stream (YAV)	bot bears orbau
	14
kaakanal commentivitiesia phan et poliurien imperitis 🦯	-/A
BIOTIC EVALUATION	
112	ations. Voucher collections optional INOTE all voucher samples must be labeled with
Performed? (Y/N) (If Yes, Record all observ	ations. Volicher bote bienens oppandit, NOTE, all volution samples much de abaudo mo oprate field deta shoels from the Primary Headwaler Habitot Assessment Manual)
Fish Observed? (Y/N) Vousher? (Y/N)5	Salemanders Observed? (Y/N) Voucher? (Y/NI
<ul> <li>Manufactoria (New York, New York,</li></ul>	
Frogs of Tadpoles Observed (11/4)	Alasse inscramentations construct (
Commente Regarding Biology	
	N P4850 IBSCUITCROUNCE CONNECT (
Commints Regarding Matopy	
Comment Reprint Notice	SCRIPTION OF STREAM REACH (This <u>musi</u> be completed):
Comment Regerding Westge	SCRIPTION OF STREAM REACH (This <u>musi</u> be completed):
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>musi</u> be completed):
Comment Regerding Westge	Aquadic Macromverteemites Observed? (VM) Voucher? (VM) SCRIPTION OF STREAM REACH (This must be completed): a discress for the evolution and a non-dive description of the stream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>musi</u> be completed):
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Commany Reporting Monorg	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Committe Reporting Unoops DRAWING AND NARRATIVE DE Induction Induction and other feature (Figure Southing	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Comments Reporting Mostors	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): a discovert for the evolution and a nanetice description of the tream's less
Commany Reporting Monorg	SCRIPTION OF STREAM REACH (This <u>must</u> be completed): . diletered for the evolution and a nanoelike description of the tiream's less 

MUMP 03 SH 05

Stream 29 - Modified Class 2

### Stream 30 - Modified Class 1

STEPAMEROCATION CONTRACTS CALL AND CONTRACTS C	AT COMMENTS AND REVENUES AND RE	
BUBSTRATE (Estimate parcent) of every     (Max of 40). Add teal number of significant     BUCR SLABS (16 pits)     BUCR SLABS (16 pits)     BUCR SLABS (16 pits)     BUCR (228 mm) (12 pits)     GANAZIL (24 simplified)     GANAZIL (24 simplified)     BUCR (228 mm) (12 pits)     GANAZIL (24 simplified)     BUCR (24 mm) (12 pits)     GANAZIL (24 simplified)     BUCR (24 mm) (12 pits)     GANAZIL (24 simplified)     BUCR (24 mm) (12 pits)     GANAZIL (24 simplified)     GAN	type of substrate present. Check ONL Y type           tsubstrate present. Check And Y type           tsubstrate present. Check And David           tsubstrate present. Check Check David           tsubstrate present. Check David           tsubstrate present. Check Check David           tsubstrate present. Check Check David           tsubstrate present. Check David David           tsubstrate present. Check David David Present. Check Da	Core is sum of bares A & B. HHE I PERCENT V/J Big Big OF SUBSTRATE TYPE2 COT SUBSTRATE
COMMENTE     Anne FULL WIDTH (Measured as the si     Admeter ()- 12) [10 pts]     20m - 40m ()-9 T-12) [25 pts]     31.5m - 40m ()-9 T-12) [25 pts]     COMMENTE     COMMENTE	scape of 3-6 measurements) (Check D > 1.0 m = 1.5 m (> 2 3 C = 1.0 m ( c 3 3) [5 pt	ONLY one box): Bankfull *- 4' 6') [15 pte] Width
RIPARIAN ZONE AND FLOODPL RIPARIAN WIDTH R (Per Bank) Ø(2) Wide > 10m Moderale 5-10m Nerrow - Son Norder R (Per Bank) E (DW BERME A Turn of Sonk)	ELCODEVANI CUALITY R (Most Prodominant) per Bank) Mature Forest, Westand Mature Forest, Westand Field Residential, Park, Here Find Field Forest Park, Here Find	L R     Conservation Tillage     Uban of Installed     Conservation Tillage     Uban of Installed     Conservation     Conservation     Mining or Construction
ELOW REGIME (Al Time of Evelue     Streem Riowing     Butenum Revenue     Scanward Revenue     Sinuce To a streem Riow with Installed pools     Community Revenue     Sinuce Revenu	Moisi Channe	A solvied pools, no flow (Intermittent) no water (Ephenewi)



Ph

No X

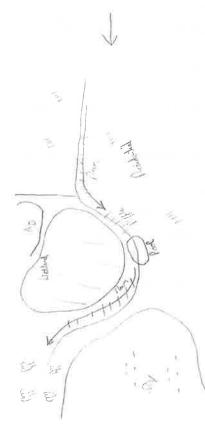
ream 31 - Modified Class 2				
				1. pet 3/381.45
ChieFPA Primary I	Headwater Ha	bitat Evalua HHEI Score (s	tion Form	24. 12
ITERAMEROCATION Noroster Land	10-2	HHEI Scole (s	dim of metales 1,	2, a) .
16 PUT 3/18/16- 3 BITE NUMBER	03 RIVER BAS	5IN	DRAINAGE A	REA (mP)
	LATLON	G RIVER	R CODE R	IVER MILE
NOTE: Complete All Items On This For			NOS PHIMH CITAR	me" for instruction
MODIFICATIONS:	WARL CHANNEL HA	the along &	all dee	OIL NO NEODIEN
SUBSTRATE (Esilmals percent of eve				
(May of 40) Add total number of signific	ent substrate types found (		ore is sum of boxes A	AB H
DD BLOR SLABS [16 pis]	ERCENT TYPE	SILT [3 pl]	_	
BOULDER (>256 mm) [16 pts]     BEDROCK [16 pt]	'00	LEAF PACK/WOODY D FINE DETRITUS [3 pla		Sub
COBBLE (65-258 mm) [12 pis]	<u> </u>	CLAY & HARDPAN D		Ma
GRAVEL (2-54 mm) [9 pts]	70 00	MUCK [0 ple] ARTIFICIAL [3 ple]	-	- 17
	<u> </u>	WRITHOWE [3 bie]	_	(B)
Total of Percentages of Bidr Stabs, Boulder, Cobbie, Bedrock	5 (A) 7			241
SCORE OF TWO MOST PREDOMINATE SUBS	TRATE TYPES: Income	TOTAL NUMBER	OF SUBSTRATE TYP	ES: Polanet
evaluation. Avoid niunge pools from role > 30 centimeters (20 pts) > 22.5 - 30 cm (10 pts) 23 10 - 22.5 cm (175 pts)		> 5 cm - 10 cm (15 pl < 5 cm (5 pts) NO WATER OR MOUTH NO WATER OT OR MOUTH NO WATER OF MOUTH NO WA	5]	
COMMENTS		MAXIMUM POC	L DEPTH (continent	na):
BANK FULL WIDTH (Measured as the	average of J-4 measuren	nentsj (Check	ONLY one box):	Ba
> 4.0 meters (> 13') [30 pis] > 3.0 m - 4.0 m (> 6' 7'' - 13') [25 pis]	ম	> 1.0 m - 1.5 m i> 3'3' ≤ 1.0 m (≤ 3'3") 15 pts		Ma Ma
> 1.5 m + 3.0 m (+ 4.6" + 977) [20 pm]	,			
COMMENTS		AVERAGE BAN	IKFULL WIDTH (ID)	
		beleiqmos ed cals <u>tau</u>		
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH	FLOODPLAIN QUALITY DINC	DTE_River Left (L) and R Y	ignt (H) as looking dow	vosi ream pr
Vide > 10m	L R (Most Predo	minani per Banki si, Walland	L R Conserv	nton Tillage
Moderale 5-10m	M T Immeture Fo	PON, Shrub or O'd		rindusinel
Nerrow <5m	Field Residential, I	Park_New Field		sslure, Row
	D Fenced Pask		Crop	r Construction
COMMENTS				
FLOW REGIME (At Time of Eve Stream Rowing	kuation) (Check GALY on	a boz)	valued pools, no fig	. Coloresticate
Subsurface flow with isolated por	ols (intersitiei)		o water (Ephemeral)	
COMMENTS	1			
SHUDSITY (Number of bends)	1.0	2.0	30	
	5	2 5	2 >3	
□ os / □				
	D Mademir ( + 100 +	Moderate to	-	J Saliere (154) 5 h

OHEI PERFORMED? . Yes IND OHEI Score	
DOWNSTREAM DESIGNATED LSE(S)	ATTAC A PHILIPPINAL PROPERTY
VAWH Name	Distance films Even and Distants
TEWH Name	Distance for Cristal Stream
	THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	NRCS Sol Map Page NRCS Sol Map Stream Order
County	Township / Cl.y
MISCELLANEOUS	- lister
Base Frow Conditions? (Y/N): // Date of tast precipitation	n 3/11/16 Quantity 1999
Photograph Information	
Elevated Tultad IV" (YR.) _//_ Canopy (% open).	10
Were samples collected for water chemistry? (YAL) 1	No e lat, sample no ot la land ettach results) Lab Number
Field Measures Temp (°C) Dissolved Oxygen (Mg	//) pH (S U ) Cenduclivity (umhos/cm)
is the sampling leach representative of the stream (Y/T-)	I'not piepse exalcin
BIOTIC EVALUATION Performed? FYRI:	Vouther colorions optional NOTE: al worker remploymust be blacked with the di fed duit scheduls and Pennery Management Machae American (Tarcia)
BIOTIC EVALUATION Performed? VTRI:	Vourher collections optional INOTE all reacher remplosimust by binded with the d
Performed? (Y/N): (II Yes. Record all observations	Vouther colorions optional NOTE: al worker remploymust be blacked with the di fed duit scheduls and Pennery Management Machae American (Tarcia)
BIOTIC EVALUATION Performed? VTRI:	Vouther colorions optional NOTE: al worker remploymust be blacked with the di fed duit scheduls and Pennery Management Machae American (Tarcia)
BIOTIC EVALUATION Performed? VTRI:	Vouther colorions optional NOTE: al worker remploymust be blacked with the di fed duit scheduls and Pennery Management Machae American (Tarcia)
BIOTIC EVALUATION Performed? VTNF (IV vs. Record all Observations Fon Discoved? (VTNF Vocadary of All Vocadary of	Vouther colorions optional NOTE: al worker remploymust be blacked with the di fed duit scheduls and Pennery Management Machae American (Tarcia)
BIOTIC EVALUATION Performed? VTNF (IV vs. Record all Observations Fon Discoved? (VTNF Vocadary of All Vocadary of	Voucher exteriors optional NOTE all worker remptoermettie blacke with the d lack and drynds have the former phone where the data dreamagners (Derival) norse Diserved? (VML
BIOTIC EVALUATION Performed? VTNF (IV vs. Record all Observations Fon Discoved? (VTNF Vocadary of All Vocadary of	Voucher exteriors optional NOTE all worker remptoermettie blacke with the d lack and drynds have the former phone where the data dreamagners (Derival) norse Diserved? (VML
DOTIC EVALUATION Performed? (VTR):	Voucher exteriors optional NOTE all worker remptoermettie blacke with the d lack and drynds have the former phone where the data dreamagners (Derival) norse Diserved? (VML
DOTIC EVALUATION Performed? (VTR):	Vouder colorions optional NOTE all worker remptoemust be blacked with the d lack and dryck has the Person June and the Made Assessment (Januar) nors Discrete 30 (CMM
DOTIC EVALUATION Performed? (VTR):	Vouder colorions optional NOTE all worker remptoemust be blacked with the d lack and dryck has the Person June and the Made Assessment (Januar) nors Discrete 30 (CMM

nk-nd stars

Stream 31 - Modified Class 2

Stream 32-Fair	Fair Var	murater 1) -	Tarra (1977-20
<b>ChicERA</b>	Qualitative Habitat Ev and Use Assessmen	aluation Index	HEI Score: (44.5)
Stream & Location: ALP	Good Have - Hawazen		Date: 0 3/ 28/ 06
- Com Bentron / M		Name & Attiliation: AL	<u>/1</u>
River Code:	STORET #: Lat	/Long: /8_	Office vention
1] SUBSTRATE Check OWLY TO estimate % of p BEST TYPES POOL RE	ote every type present	Check ONE (Or 2 ORIGIN	& average) QUALITY
DD BLOR SLABS [10]		CI CIMESTONE (1)	MODERATE [-1] Substrate
	CT T MUKK (2)	UWETLANDS (0)	E NORMAL (0)
GI GRAVEL [7] 40		E BANDSTONE [0]	BEXTENSIVE [4]
FTFT ANALOGICAL	(Score natural substrates: gre 4 or more (2) studge from point courts	ME DRIPHRAP (0)	MODERATE [-1] MODERATE [-1] MOXIMAL [0] NONE [1]
NUMBER OF BEST TYPES: Comments	[2 3 or less [0]	SHALE [-1]	D NONE [1]
Commenta	15	COAL FINES [-2]	· 2
2] INSTREAM COVER Indicate gasty, 3-lightsi quality in modera diameter tog Dati a table, well dow UNDERCUT BANKS [1] OVERHANDING VEGETATIC SHALLOWS IN SLOW WATI ROOTMATS [1]	N [1] ROOTWADS [1]	attouts of it have control of mag uity or in small anounts of highes dess in deep or last water. Large or well defined, functional pools. OXBOWS, BACKWATERS [1] AQUATIC MACROPHYTES [3] LOGS OR WOODY DEBRIS [1]	Check ONE Cost A granger Extensive >75% [11] MODERATE 2576% [7] SPAREE 6-20% [3] B NEARLY ABSENT <5% [1] Control
Commonts Sarda e	noded lands, laws		mian Maximum 20
3) CHANNEL MORPHOLOGI SINUOSITY DEVELOPM	Check ONE In each calegory (Or 2 & CHANNELIZATION	STABILITY	
HIGH [4] EXCELLER	IT [7] INONE (8]		
MODERATE [3] GOOD [5]     LOW [2] FAIR [3]	RECOVERED [4]	DI MODERATE [2]	_
LOW [2]      FAIR [3]     NONE [1]     CommentsC	RECENT OR NO RECOVER	(1)	Meximum 11.5
( )	3.5		20
4) BANK EROSION AND RI	RIPARIAN ZONE Check ONE in each call RIPARIAN WIDTH	epory for EACH BANK (Or 7 per be OOD PLAIN QUALITY	nit & averaget)
B EROSION	WIDE > 50m (4)         0         FOREST           MODERATE 10-film [2]         0         SHRUB           ARROW 6-10m [2]         0         SHRUB           ERY NARROW < 5m [1]	SWAMP [3]	CONSERVATION TILLAGE [1] URBAN OR HOUSTRIAL [0] MINING / CONSTRUCTION [0]
	en naterio e	ABTURE, ROWCROP (0) past	Marine 3
Comments	1.5	্য 👘	10
5] POOL / GLIDE AND RIFFI MAXIMUM DEPTH	E / RUN QUALITY CHANNEL WIDTH CI	URRENT VELOCITY	Recreation Potential
Check ONE (ONLYI) Ch	eck ONE (Or 2 & average)	Check AI, L that apply	Primary Contact
□ > fm [4] □ POOI □ 0.7 <fm [4]="" pooi<="" td="" □=""><td>WOTH &gt; RIFFLE WOTH [2] TORRE</td><td>FAST (1) CI SLOW (1) FAST (1) CINTERSTITIAL (-1) 1) CINTERMITTENT (-2)</td><td>Secondary Contact</td></fm>	WOTH > RIFFLE WOTH [2] TORRE	FAST (1) CI SLOW (1) FAST (1) CINTERSTITIAL (-1) 1) CINTERMITTENT (-2)	Secondary Contact
0.4-40.7m [2] DP000	WOTH > REFLE WOTH (0) A FAST (	1) DINTERMITTENT (-2 RATE (1) DEDDIES (1)	Pool
[] < 9.2m [0] //	) hdo	ate for reach - pools and rithes	Current 6
Comments APD = 3			and an and a second sec
Indicate for functional r of riffle-obligate species	ffles; Best areas must be large Check ONE (Or 2 &		ation
RIFFLE DEPTH F	UN DEPTH RIFFLE / RUN	SUBSTRATE RIFFLE/R	UN EMBEDDEDNESS
BESTAREAS > 10cm [2] MA	XIMUM > 50cm [2] 🗌 STABLE (e.g., Co XIMUM < 50cm [1] 🔀 MOD. STABLE (e.	oble, Boulder) [2]  g., Large Gravel) [1]	NONE [2] LOW [1]
BEST AREAS < 6cm [metric=0]	UNSTABLE (e.g.,		
Comments 2	1		O Maximum
DRAINAGE AREA	□ VERY LOW - LOW (2-4) □ MODERATE (6-10) □ HIGH - VERY HIGH (10-6)	%POOL: 70 %GLII %RUN: 60 %RIFFI	
EPA 4520			05/16/06



Stream 32-Fair

	METHOD STAGE BOAT BOAT BOAT BOAT BOAT LUNE LUNE BOATHER DISTANCE DRY DISTANCE DRY DISTANCE DRY DISTANCE DRY DISTANCE DRY
WILSAKE ALCARE WILSARE ALCORPTTES EXCESS TUBBORY EXCLORATION FOAR SCHOOR FOAR SCHOOR SCHOOR SCHOOR SCHOOR SCHOOR ESCHOOR SCHOOR FOAL SCHOOL SCHOOL	BJAESTHEINC
PHOLO: PERSONAL <sup>6</sup> IL ODI // MA ACTUBEL/JISTORE (OL ODI // MA NOBELO: (DANE) (PERSONAL) IL OVERO (DANES) IL OVERO (DANES) IL OVERO (DANES) IL OVERO (DANES) IL OVERO (DANES) IL OVERO (DANES) IL OVERO (DANES)	D) MAINTENANCE
	Cirde some & CCM/MENT
иля станист с удот, записали конструкти с соядел с удот, имая с соядел с участ имая с соядел с участ участ в участ соядила с имаят с соядели с соедила с имаят соедила с соядели с с имаят с соедила с с она с с с с с с с с с с с с с с с с с с с	EJ ISSUES
Y width Y depth mail: depth 2 bankhull width bankhull width bankhull mail bankhull mai	F] MEASUREMENTS

101			-	HHEI Score (		
		02816-15 SITE NUMBER		RIVER DASH	08	ANNAGE AREA (mi <sup>2</sup> )
ENOT	H OF B	TREAM REACH IN 4001	t LAT.	LONG RIV		NIVER MILE
BTE	04	8/16 sconen MOT	BCR CO			
NOT	E: Con	plete All Items On This F	orm - Refer t	o "Field Evaluation Manual for	Ohio's PHA	/H Streams" for Instruct
STRE	AM CH			NUEL DRECOVERED DREC	оуенны С	RECENT OR NO RECOVE
MOD	FICAT	TONE: Within T	- Line R	OW/ Residential lo	6	
d.	SUBS	TRATE (Estimate percent of	every type of a	ubstrale present, Check ONLY two	predominants	substrate TYPE boxes
	(Maxi	of 40) Add total number of sign	PERCENT	a Lypes found (Max ol 8)_Final metric	score is sum	of boxes A & B
		DR SLABS [18 pts]	FERGENI	SILT [3 p1]		205
		DULDER (>256 mm) [18 pls] EDROCK [16 pt]	-5-	LEAF PACKWOODY		
00	l c	OBBLE (65-258 mm) [12 pis]	ID.	CLAY & HARDPAN		
		RAVEL (2-64 mm) (8 pts)	3()	MUCK [0 plo]     ARTIFICIAL [3 plo]		
191_	9	AND (<2 mm) [6 pts]				
	Bidr S	Total of Percentages of labs, Boulder, Cobble, Bedrock	, 15	(A)		(B)
SCORE		NO MOST PREDOMINATE SU		ES: TOTAL NUNBE	R OF SUBST	RATE TYPES:
	Marb	num Pool Depth Offeasure th	maximum po	of depth within the 61 meter (200 fi	) evaluation re	each at the lime of P
-	*****	ation. Avoid plunge pools from: entimeters (20 pts)	cond culverts or	storm water pipes) (Check ONLY	one poxi	
ö		- 20 cm (30 pts)		C) <5 cm [5 pts]		
ă	- 10 -	22.5 cm [25 pts]		NO WATER OR MC	ANT CHANDA	Keekte 3"
	COM	MENTA		MAXIMUM P	OOL DEPTH	centimeters)
s		FULL WIDTH (Measured as	the average of		k ONLY one	
Н		rolers (> 15') [30 pts] 1 - 4 0 m (> 9' 7" - 13') [25 pts]		ີ > 1.0 m - 1.5 m (> 3* ຊີ້ s 1.0 m (≤ 3*3*) [5]		preg
	>16n	1 - 3 0 m (> 4* 6" - 6* 7*)[20 pt∎]	1			Dat 7/
	COV	MENTS	_	AVERAGE B	ANKFULL VI	OTH (meters)
	_					
		RIPARIAN ZONE AND FLO	DDPLAIN QUA	Information must also be complete LITY ONOTE: River Left (L) and	nd Righl (R) as i	ooking downstream å
		RIPARIAN WIDTH	FLOOD	PLAIN QUALITY		
		(Per Bank) Wide >10m	οÖ	(Most Predominant per Benk) Meture Foresi, Welland	Ľ.	Conservation Tilage
	L B		N 10	Immalure Forest, Shrub or Old	00	Urban or Industrial
			29 28	mand and a second secon		
		Moderate 5-10m		Field Residential Park New Field	пп	Open Pasture, Row
	00	( Moderate 5-10m ) Narrow <5m		Field Residential, Park, New Field Fanced Pasture	00 00	Open Pasture, Row Crop Mining or Construction
		( Moderate 5-10m ) Narrow <5m	ØQ	Residential, Park, New Field		Crop
		Moderate 5-10m Narrow <5m None	<b>0</b> 0	Residential, Park, New Field Fenced Pasture Tack ONLY one box)	00	Crop Mining or Construction
		Moderate 5-10m     Narrow <5m     None     COMMENTS     FLOW REGIME (A) Time of a Stream Flowing	Evaluation) (C	Residential, Park, New Field Fenced Pesture	wt, instated (c	Crop Mining or Construction
		Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (Al Time of Stream Flowing Subsurface flow with instated	Evaluation) (C	Residential, Park, New Field Fenced Pasture	00	Crop Mining or Construction
		Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (AI Turne of Stream Rowing Subsurface flow with instated COMMENTS.	Evaluation) (C	Residential, Park, New Field Fenced Pasture	wi, instaled p , no water (E	Crop Mining or Construction

and a second second second second second second	
ADDITIONAL STREAM INFORMATION (This Informative Must Also be Cr	mpleted):
QHEI PERFORMED? Tyes KNo OHEI Score	(It Yas Attach Completed OHE) Form)
DOWNSTREAM DESIGNATED USE(5)	
WWH Name	Distance from Evaluated Stream
CWH Name	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTITE NUSCES Quedrengle NomaNRC	IS Sol Map Page NRCS Sol Map Stream Order
NISCELLANEOUS Bese Flow Conditions? (MAG. A) Dete of last precipitation: 0.3/0.2	In Charly ary 7
Bese Flow Conditions? (MAL Dete of last precipitation:	Duantity
Photograph Information 2 Plates, Upsilizem 1	Vounsheam
Elevoted Turbidky' (Y/N) _N_ Compy (14 cress _40_	
Weiter an opperate called the weiter channing of milities 📈 (Note lab samp	xe no or id, and attach results) Lab Number
Field Measures; Terno (°C) Dissolved Oxygen (mg/i)	bul (STL) Conductively (umbosfem)
is the sampling reach representative of the stream (Y/A) 🖉 . If not please	e externe
Additional commentations given of solution imparts _P/A	
BIOTIC SYAL HATION	
BIOTIC EVALUATION Performed <sup>2</sup> (VAI)	ctions opboral - NOT E' all voucher somplos mult be labeled with the ste ke from the Primary Heodwater Habital Assessment Manual)
Performed? (Y/A) (ITYes, Record all observations. Voucher cole ID number. Indude appropriate field data shes	He from the Primary Headwriter Habital Assessment Manual)
Performed? (Y/II) (ITYes, Record all observations. Voucher cole ID number. Indude appropriate field data shes	He from the Primary Headwriter Habital Assessment Manual)
Performed <sup>2</sup> (VAI) (If Yes, Recard all observations. Variable colle ID number. Indude appropriate field data stress Fish Observed? (VAI) Vouchar? (VA) Salamenders 2056/0 Frogs or Tadpoles Observed? (VAI) Aquake Ma	He from the Primary Headwriter Habital Assessment Manual)
Performed <sup>2</sup> (YA), (If Yes, Record all observations. Voucher colle ID namoer. Indude appropriate field data stres Flish Observed? (YA), Salamenders 205597 Frogs or Tadpoles Observed? (YA), Aquakc Ma	He from the Primary Headwriter Habital Assessment Manual)
Performe./? (VRi) III Yee, Record all doservations. Voucher cole ID rumore. Indude approprive field deta stress Flish Observer2 (VRI) Voucher? (VR) Salumenders Observ Forger of Tadpoblesrever2 (VRI) Voucher? (VR) Attrack Ma Comments Response Borroory	tis from the Primery Head-write' Habital Assessment Kanual) erd? (V/N) Voucher? (V/N) voucher? (V/N) erdinvertebroites Observed? (V/N) voucher? (V/N)
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Performed? (V/Ir) (If Yer), Record all observations. Vocifier cole ID number. Indude approprive field deta stres Fish Observed? (V/N) Vocifier? (V/N) Salamenders Observ Forgis or Tadpoblerved? (V/N) Vocifier? (V/N) Attrake Ma Comments Response Borrogy	ist too the Primary Headwork? Habiat Assessment Yahuan) wd? (YN)
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Stream 33 - Modified Class 2

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ADDITIONAL STREAM INFORMATION (This	
	No OHEI Score (If Yes Altach Completed QHEI Form)
DOWNSTREAM DESIGNATEO USI	E(S) Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPINO: ATTACH COPIES OF MA	APS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOC
	NRCS Soil Map Page NRCS Soil Map Stream C
County	Township / City
MISCELLANEOUS Break Filty: Conditions? (Y/N): M Dale	other programs (3/22/15) (Early (H)) ?
Elevated Turbidity' (VTI) Can	пору (% орел) <u>2. С́1</u>
Were symples collected for water chemistry?	(Y/N)] Note lab sample no or ld and atlach results) Lab Number
Elevi Measures Term (*C) Disso	pyed Oxygen (mg/l) pH (SU ) Conductivily (µmhos/am)
	(YAN) V Unot please mariale
Additional commentations replaced at pollution a	months_pt/fA
ID number In	d di diservalons. Voucher collections optional. NOTE: sil voucher samyber must ha tab is une aporopriste filmt dans sheets from the Prinning Headwader Hahtaf Assestment Mar N)Salamanders Observed? (YNI) Voucher? (YNI) Salamanders Observed? (YNI) Voucher? (YNI) Voucher? (Y
DRAWING AND NARRA	TIVE DESCRIPTION OF STREAM REACH (This must be comple
DRAWING AND NARRA Include Insurtial Landonarks and on FLOW	TIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed on the stream of the stream

HH-M	HOF S	2816-14SITE NUMBE TREAM REACH (NO) 23/14_ BOORER	Al LAT.	RIVER BASIN	VER CODE	AINAGE AREA (mi <sup>2</sup> ) RIVER MILE WH Streams" for Instr	_
	AM CH FICAT			m line fan	COVERING (	D RECENT OR NO RECO	WERY
	(Mexi d BL BE CC GF SA	TRATE (Estimate percent of 40). Add total number of si ADD. Add total number of si DR SLABS [16 pts] SUDER (~255 nm) [16 pts] SDROCK (16 pt] DBBLE (65-255 nm) [12 pts] AVEL (2-84 nm) [5 pts] ND (<2 nm) [6 pts] Totel of Percentages of lass, Boulder, Coble, Bedr	gnificant substrat	Substrate present. Check OKLY Yes types found (Max ol 9), Final matrix Yes SiLT 13 pt] CLEAP PACKWOOD FINIC DETINUE 1 CLEAP ACKWOOD MUCK 10 pts] ARTIFICIAL (3 pts) (A)	ic score is sum nY DEBRIG [3 p 9 pts] 1 [9 pt]	of boxes A & B <u>PERCENT</u> <u>15</u> <u>15</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u>	HHI Meti Bubst Man - 7/
	Mastr ******	VO MOST PREDOMINATE 3 him Pool Depth (Measure filos, Avaid plunge pools fro ministers (20 pts) - 30 cm (30 pts) 22.5 cm (23 pts)	the maximum po	ool depth within the fit mean (200 r storm water poss) (Check DA), + 5 cm - 10 cm (1) - 5 cm (5 pn) NO watell OR s	fij evaluation f V one book 9 pts] 10(157 CHINNK)	tech at the time of	Pool D Mari
	BANK > 4.0 m > 3.0 m > 1.5 m	NENTA FULL WIDTH (Measured e dens (> 13) [30 pte] - 4 0 m (> 6' 7' - 13) [25 pt - 3 0 m (> 4' 8' - 6' 7') [20 p	1	73–4 measurements) (Chu □ > 1.0 m - 1.5 m (> 区 ≤ 1.0 m (< 3°37)[5	ck ONLY one 3' 3' - 4' 8') [15	pter LS	Bank Wid Mare
-	-	RIPARIAN ZONE AND FL	This DODPLAIN QUA	Information <u>must</u> also be completed by the second	lad d Right (R) es	ooking downstream 🖆	
	ы р ЯК	(Per Bank) Wide >10m		PLAIN QUALITY (Most Predominant per Bank) Meture Forest, Wetland Immeture Forest, Shrub or Old Field		Conservation Tillage Urban or industrial	
	00 00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>R R</b> 00	Residentia, Pars, New Field Fenced Paslure	00	Open Pasture, Row Crop Mining or Construction	
	Ø	FLOW REGIME (At Time of Stream Flowing Subsorface from with isolate COMMENTS	d pools (Interatil)	el) Noist Cha Dry chann	el no water (E	oofs, ne fow (internitiant) phemeral)	
				0 1) of channel) (Check ONLY on	e box):		

14-MOT-03:816-14

Stream 34 - Modified Class 2

PHWH Form Page - 1

	Modified Class 2	011-107-635-116
Chi	Prima	ry Headwater Habitat Evaluation Form
_		HHEI SCOre (sum of metrics 1, 2, 3) :
SITENAME	LOCATION	oper Hessian
	032816-12 DITE NUMBI	
	STREAM REACH (1) - HO	
		DT/BCR_ COMMENTS_ Prterritter
NOTE: CO	implete All items On This	s Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru
STREAM C		E / NATURAL CHANNEL D RECOVERED RECOVERING RECENT OR NO RECO
MODIFICA	TIONS: Within	T-Line ROW
1 908	STRATE (Estimals parcent	of every type of substrate present, Check OKLY two predominant substrate TYPE boxes
(Mar	a of 40) Add total number of a	significant substrate types found (Max of 8). Final metric score is sum of boxes A & B
	BLOR SLABS [16 pte]	PERCENT TYPE SILT [3 pt]
00 1	BOULDER (>256 mm) [16 pts	a] LEAF PACK/WOODY DEBRIS [1 pts]
	BEDROCK [18 pt]	
	COBBLE (65-256 mm) [12 pts GRAVEL (2-84 mm) [8 pts]	
	SAND (<2 mm) [6 pts]	2.5 D MUCK [0 pis]
	Total of Percentages of	
	Stabs, Boulder, Cobble, Bedr	rock <u>45</u>
SCORE OF 1	WO MOST PREDOMINATE	SUBSTRATE TYPES: Local TOTAL NUMBER OF SUBSTRATE TYPES: Local
Q +22 (X +10	cecilimateix (20 pts) 5 - 30 cm (30 pts) - 22 5 cm (25 pts)	Som (5 pis) Som (5 pis) NO WATES OR MOUST CHARDER (19 pis) V/2542
-	AMENTA	MAKIMUM POOL DEPTH (centinglas):
3 BAN	(K FULL WIDTH (Measured a meters (> 13') [30 pts]	as the average of 3-4 measurements) (Check ONLY one box):
		16) \$ 1.0 m (\$ 3' 3") [5 pis)
> 3.0	m - 4.0 m (> 8'7" - 13') (25 pt	
	m - 4.0 m (> 9'7" - 13') (25 pt m - 3.0 m (> 4'8" - 9'7") (20 p	pres poet 41
□ >1.5		AVERAGE BANKFULL WIDTH (metworf
□ >1.5	m - 3 0 m (> 4' 8'' - 9' 7") [20 p	AVERAGE BANKFULL WIDTH (metrist
□ >1.5	m - 3.0m (> 4'8"-9'7") (20 p MENTS RIPARIAN ZONE AND FL	AVERAGE BANKFULL WIDTH (metvrs) This information <u>musi</u> also be completed LOODPLAIN QUALITY ANOTE: Rever Let (L) and Right (R) as looking downstreem à
C > 13	m - 3.0 m (> 4'8"-9'7') [20 p MENTS RIPARIAN ZONE AND FL RIPARIAN WIDTH	AVERAGE BANKFULL WIDTH metvrst
C > 13	m - 3.0 m (> 4'8"- 9'7") [20 p MENTS RIPARIAN ZONE AND FL RIPARIAN ZONE AND FL RIPARIAN WIDTH R (Per Bank)	AVERAGE BANKFULL WIDTH (methraf)  This Information must also be completed CODDELMN QUALITY ON/OTE: Rever Let (L) and Right (R) as Looking downstream      APHOTE: Rever Let (L) and Right (R) as Looking downstream
C > 13 COM	m - 3.0m (> 4'8'- 6'7') [20 p MENTA RIPARIAN ZONE AND FL RIPARIAN WIDTH R (Per Gank) 7) Wide > 10m	AVERACE DANKFULL WIDTH (metric)
دە: cox لا	m - 3.0 m (> 4*8*- 9*7*) [20 p	
C >13 COA	m - 3.0 m (> 4*8"- 6*7") [20 p	AVERAGE BANKFULL WIDTH (methraf)      This Information must also be completed     CODELMN QUAITY ON'DE: River Let (L) and Right (R) as looking downstream      APHOTE: River Let (L) and Right (R) as looking downstream      CODENN DUAITY     LOBORTAN     LOBORTAN
در، C دور درام درام درام درام	m - 3.0 m (> 4*8*- 9*7) [20 p	AVERAGE BANKFULL WIDTH (methods)      This Information must late be completed      LOODPLAIN QUALITY     WhOTE: Rever Left (L) and Right (R) as looking downstream.'S      FLCORDRAIN QUALITY     Whote Predominant) per Bankt     L     R     Mature Forest, Welland     Que method reverses      Conservation Tillage     Que method reverses      Que nor industrial      Que Pasture Road      Que
ັ ເຜ ອີກ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ	m - 30m (c 41%-0'7) [20 p	AVERAGE BANKFULL WIDTH (method)      This Information must late be completed      COOPLAIN QUALITY     OhOTE: Rever Let (L) and Right (R) as looking downstream     FloopPlain QUALITY     Ohot Predominant per Bank     L     R     Mature Forest, Welland     Conservation Tillage     Go from the forest, Stream O     Ohot Predominant per Flood     Open Padlute, Ron     Field     Fenced Pesture     Maing or Construction     of Evaluation     (Check ONLY one bay)
در، C دور درام درام درام درام	m - 20 m (> 4' 8'- 9' 7) [20 p MEPARIAN ZONE AND FL RIPARIAN ZONE AND FL RIPARIAN YOUTH R (Par Gail) Wide 10 m Notersis 5-10m Network 5m Network 5m COMMENTS 7 filme FLOW REGME (AT filme	AVEAGE BANKFULL WIDTH (method)      This Information must size be completed     LOODFLAM QUALITY - wholl's: River Let (L) and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's: River Let (L) and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3
נא כא גע גע גע גע גע גע גע גע גע גע	m - 20 m (> 4'8'-9'7) [20 p MENTS RIPARIAN ZONE AND FL RIPARIAN/WIDTH P (Par Bank) Wide >10m Morests 5-10m Name COMMUTE COMMUTE Stream Rowing Stream Rowing Str	AVEAGE BANKFULL WIDTH (method)      This Information must size be completed     LOODFLAM QUALITY - wholl's: River Let (L) and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's: River Let (L) and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3     LOODFLAM QUALITY - wholl's River L and Right (R) as looking downstream-3
נא כא גע גע גע גע גע גע גע גע גע גע	m         - 20m         (-4/89'7)         (20 pr           MENTS	AVEAGE BANKFULL WIDTH (method)      This Information must also be completed     LOODELMN QUALITY ON'DEL (1) and Right (R) as Looking downstream <u>PROODENNOULUITY     L R (Most Previonment per Bank)     Residential, Pank, New Field     Conservation Tillinge     Residential, Pank, New Field     Conservation     Residential, Pank, New Field  </u>
	m         - 20m         (-4/89'7)         (20 pr           RIPARIAN 20NE AND FL         RIPARIAN Y00TH         Riperiod (20 pr           Mide > 10m         Wide > 10m         Nemover 50m           Modewate 5-10m         Nemover 50m         Nemover 50m           Name         COMMENTS         COMMENTS           Silvuo Si TY (Number of be None         Silvuo Si TY (Number of be None	
L 200 201 201 201 201 201 201 201 201 201	m         - 2 om (> 4' 8'- 9' 7) [20 p           MEHTE	AVEAGE BANKFULL WIDTH (method)      This Information must also be completed     LOODELMN QUALITY ON'DEL (1) and Right (R) as Looking downstream <u>PROODENNOULUITY     L R (Most Previonment per Bank)     Residential, Pank, New Field     Conservation Tillinge     Residential, Pank, New Field     Conservation     Residential, Pank, New Field  </u>
	m         - 20m         (-4'8'-9'7)         (20 p)           MENTE	

Modified Class 2	111-101 032 916 12
ADDITIONAL STREAM INFORMATION (This Information Must Also to C	amptaled);
OHEI PERFORMED? TYes RNO OHEI Score	(If Yes, Altach, Completed OHEI Form)
DOWNSTREAM DESIGNATED USE(6)	
WWH Name     Continue	Distance from Evaluated Stream
D CWH Name	Dislance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS INCLUDING THE ENTIRE	WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	CS Sol Map Page NRCS Sol Map Stream Order
County Township //	City
NECELLANEOUS BASE PLAN EARLON VIET N Date attest presidentes D3/2 Pactores to presidentes T. Malan Japatres 1	(Ford Mer) s/16 Quantity 7
Elevated turbon turing AV Canapy thingens 10	
Where we applies training the water as a matery over M	ple do lor id, and all schiresults) Lab (fumber
Field Measures Temp (*C) Dissolver(Oxygep (mp4)	
is the excepting reach representative of the ensure (VAU, $\mathbb Z$ . Head gives	
Andrijonal cremments/bescription of pollution impacts	
BIOTIC EVALUATION Performed? [Y/Ji)	adions aptoris' - NOTE) all vision en samples must be labeleo with the kite es from the Ponany Headwater (Jabret Assessment Harriel)
Fish Observed? [Y(N) Vouche1? [Y(N) Salkriphdars Observ Frogs at Tadpoles Observed? [Y(N) Voucher? [Y(N) Aqualic Ma Comments Regarding to dog	ved? (YM) Voucher? (YM) cordinvenebrates Observed? (YM) Voucher? (YM)
•	
ORAWING AND NARRATIVE DESCRIPTION OF include Important landmarks and other features of interest for sile	
	durante dr
TELIND	THE BURNESSIMO
10 1000	6 (2 - (2 × 35)
19 63	23 T 12 1 12 132
FLOW	1
Circl Edge	- Alter
mi stan on	la se
PRVII form	Page - 7

Stream 35 - Modified Class 2

	Nodified Class 1			MILLOT DOTE	13
	Primar	y Headv	vater Habitat Eval	uation Form	2.4
			HHEI Score	e (sum of metrics 1, 2, 3) :	<u> </u>
ITE NAMEAG	22816-13 SITE NUMBE	11-14	RIVER BASH	DRAMACE AREA (m <sup>2</sup> )	
ENOTH OF S	TREAM REACH (#)	AF LAT	LONG F	IVER CODE RIVER MILE	
	and the second se		MMENTS TO THE AND	- Ohler Dibitil Character Carls	
STREAM CH				or Ohio's PHWH Streams" for in	
MODIFICAT		T. line			LUUTEN
SUBS	TRATE (Esilmale percent o	Levery type of	substrale present. Chock ONLY h	vo predaminani substrate 71/PE baxe:	s 1
			te types found (Max of 8). Final met		HHEI
00 81	.DR SLABS [16 pts] DULDER (>256 mm) [16 pts]		□ [] SILT [3 pt]	DY DEBRIG [3 pla]	Point
ОО ВЕ	DROCK [16 pl]		FINE DETRITUS	[3 pts]	Substral Max = 44
	DBLE (85-255 mm) [12 pls] LAVEL (2-54 mm) [1 pts]	70	CLAY OF HAROPA	Det of 14	
	ND (<2 mm) [8 pts]	15	ARTIFICIAL (3 pt)	1	1 4
Birk S	Total of Percentages of labs, Boulder, Cobble, Bedro	× 70	(A)	(8)	A+B
	O MOST PREDOMINATE S		PES:	BER OF SUBSTRATE TYPES:	-
Maxle	num Fool Depth (Measure s	te staséture po	ool depth within the 61 meter (200	f) evaluation reach at the time of	Pool Dep
1 > 30 cr	intimaters [20 pts]	need subwits e	(Check ONL > 5 cm - 10 cm [1	5 pis]	Has = X
	- 30 cm [10 pts] 22.5 cm [25 pts]		G' HO WATER OR I	WORST CHAMPLES (0 pris)	10
	MENTS		MAXIMUM	POOL DEPTH (centimeters):	
BANK	FULL WIDTH (Measured as	the average o	3-4 measurements) (Ch	eck ONLY one box):	Bankful
> 4.0 m	elers (> 13') [30 pte] - 4.0 m (> 9'7" - 13') [25 pte]		> 5.0 m - 15 m (> ス < 10 m (≤ 3'3")	3'3" - 4'8") [16 pts] 5 pts]	Width Max=30
□ >30m				But	115
🔲 > 3 0 m	- 3.0 m (> 4'8' - 9'7") [20 pt			BANKPULL WIDTH (meters)	1/
□ > 1.5 m		-	AVERAGE	EXAMPLE HISTA (MELLS)	
□ > 1.5 m	- 3.0 m (> 4'8'- 9'7') (20 pi		information must also be comple	eled	
□ > 1.5 m	- 3.0 m (> 4' 8' - 9' 7") [20 pt	ODPLAIN QUA	information must also be comple	eled nd Right (R) as looking downstream ລໍ	-
COWN	- 3.0 m (> 4'8'-9'7) (20 pi ENTS RIPARIAN ZONE AND FLO <u>RIPARIAN WIDTH</u> (Per Banh)	ODPLAIN QUA	Information <u>must</u> also be comple UTY ONOTE: River Lot (L) as <u>A Alli CLAUTY</u> (What Perdooreant per Banks	eled nd Right (R) as looking downstream A	
C > 1.5 m	- 3.0 m (> 4'8'- 9'7) (20 pi IENTE RIPARIAN ZONE AND FLC <u>RIPARIAN WIDTH</u> (Per Banh) L Wrde >10m	ODPLAIN QUA	Information <u>must</u> also be compli- UTY <u>CNOTE</u> : River Left (L) are and <u>CUATTY</u> (Main Perdormant per Bank) Main Find (Chang) (Immalue Fores) Shub or Old	eleci nd Right (R) as looking downstream A ເຼ. ຂ	
C > 1.5m	- 3.0 m (> 4*9*-9*7*) (20 pi ENTE RIPARIAN ZONE AND FLC <u>RIPARIAN WOTH</u> (Per Bar) Write >10m Write >10m		Information <u>musi</u> also be comple UTY ONOTE: River LeR (L) an or and <u>Custorn</u> (Musi Perdonnent per Banki Malare Fund (Weisand	eled A Righi (R) as looking downstream A	e
CON CON CR CR CR CR CR CR CR CR CR CR CR CR CR	- 3.0 m (> 4'8'- 9'7') (20 pi MENTS RIPARIAN 20NE AND FLO RIPARIAN WOIDTH (Per Banh) K. Wrie > 10m Modele 5-10m Narrow <5m None		Information <u>must</u> also be complete UTY GNOTE: Rever Let (L) and More Particulation More Particulatio More P	aled nd Right (R) as looking downstream A Conservation Tillag Urban or Industrial	e Z
C > 1.5m	-3.0 m (> 4*8*-9*7*) (20 pi #ENTS		Information <u>must</u> also be complete UTY ONOTE: River Left (L) = <u>RAIL CASITY</u> (Must Preforment per Banki Must Preforment per Banki Must Preforment per Banki Ummaure Forest, Shrub or Old Field Residentini, Park, New Field Fonced Pasture	eled I Righi (R) as looking downstream A Conservation Tillag Urben or Industrial Open Pesture, Row	e Z
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	104 MAT (3571
ADDITIONAL STREAM INFORMATION (This Information Musi Also be	Completed)
QHELPERFORMED? - TYES Z No QHE Score	(PYes_Attach Completed QHEI Form)
DOW/NSTHEAM DESIGNATED USE(S)	
WWH: Name     CV/H finne	Distance from Evaluated Siream
	Distance from Evaluated Stream
MAPPING ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE	WATERSHED AREA. CLEARLY MARK THE SITE LOCAT
USOS Questingle Name NE	RCS Sol Map Page NRCS Sol Map Stream Ord
County Township	/ City
MISCELLANEOUS /	(Carlanter)
Base Flow Conditions? (MN) M Deta effaut precipitation	Garry Rearing
MISCELLANEOUS Base Flow Conditions? (VIN) Data effait principlation?	1 Downstream U
Elevaled Furbicity? (YA) N Changy the normal 15	-
Were samples collected for water chemistry? (Y/N) M	nple no prid and alloch results) Lab Number
Fiold Measures Temp ("C) Dissolved Outgen (mg4)	
is the sampling reach representative of the stream (Y/N) 2. If not plea	
Ta the pumping reacting products of the article of the	
Additional comments/description of politicon enough	
Additional commentation carbon of contraction and the	
BIOTIC EVALUATION	
1	lectons optional NOTE all voucher samples must be labele
Performed* (Y/N) (ff Yes, Record Birdsseval dis. Voudier op ID number Include appropriate field sets sh	sets from the Primary Headwater http://d.Assess.net/Manua
Fish Observed? (Y/N) Voucher? (Y/N) Salamonde-s Observed?	rved? (Y/N)Voucher? (Y/N)
Frogs or Tadpoles Observed? (VA) Voucher? (V/N) Aqualic N	lacronivertebrates Observed? (*/N) Voconer? (*//4
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DRAWING AND NARRATIVE DESCRIPTION O	
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tream 37 - Modified Class 1		WH. MAT 03786
ChieEPA Primary H	eadwater Habitat Evaluat HHEI Score (w	
LENGTH OF STREAM REACH IN 15011 DATE 03/28/16 SCORER 101/00 NOTE: Complete All Items On This Form	II RIVER BASIN LONG RIVER COUMENTS 524444.44 - Refer to "Field Evaluation Manual for Oh JRAL CHANNEL Ø RECOVERED I RECOV	
1. SUBSTRATE (Estimate percent of ever (Mex of 40), Add total number of significan	Whype of subbattelic present, Check ONLY by point in subbattelic poes found (Max of 6). Final metric son metric son the subbattelic son the subbattelic son lease packwoodby by the Destination of the subbattelic son muck (by pail 4).           10         ILIT 3 P0 ILIT	Pre is sum of bowes A & B. PERCENT Store BRIS (3 pts)
2. Maximum Pool Depth (Measure the ma	Vinum pool depth wilblin the St aware (200 fd e culverts or storm water poet) (Check Off, Y one > 5 cm - 10 cm (15 pts) < < 6 cm (5 pts) No water on Mois	tox):
3. BANK FULL WIDTH (Measured as the c > 4.0 meters p 137 [30 pit] > 3.0 m - 4.0 m p € 077 - 137 [25 pit] > 1.5 m - 3.0 m (> 4' 6' - 6' 7') [20 pite] COMMENTS	აwarage o [3-4 measuremonts] (Check C > Lom - 1.5 m )> 33° s 1.0 m (s 373) წreij AVERAGE BAN	Bot 11 5
RIPARIAN ZONE AND FLOODPI RIPARIAN WIDTH L R (Per Back) PN/34 Vida >10m Moderals 6-10m Narrow <5m CNMEHTS	This Information <u>musi</u> also be completed AIN QUALITY - ONOTE: River Left (L) and Rig FICOOPE/AIC/AUTY L R (Most Prodombani per Bank) ) - Matter Forest, Welland R (R) - Freid   Residential, Park, New Field   Fanced Perture	h) (R) as looking downstream  L R Conservation Theore Urben or industrial Copen Pasture Row Copen Maing or Construction
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SINUOSITY (Number of bends pe Nane Q 0.5	1.0 [200 ft] of channel) [Check OALY one box 1.0 [] 2.0 5 [] 2.5	0: 3 0 >3
GTREAM GRADIENT ESTIMATE	Moderate (2 #100 #  Moderate to S	levere 🕅 Sovelenda: An
	PHWH Form Page - 1	

GHELPERFORMED? -	t'es 🕅 No QHEI Score	(IFYes_ Allach Completed QHE; Form)
DOWNSTREAM DESIGNA		
WWR Name	TED Gae(o)	Distance from Evaluated Stream
C'ALL Name		Distance from Evaluated Stream
D EWH Name		Distance From Evaluated Stream
MAPPING: ATTACH COPIE	S OF MAPS, INCLUDING THE E	NTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATIO
USGS Quadranole Name		NRCS Sol Map Fage NRCS Sol Map Stream Order
Base Row Condition #7 1976	Tasks of last superindation (	states ( and API) 3 Haves
Photograph Information		
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Elevated TurbidLy" (Y/N).	Camppy w opent	
		b sample no or id and attach results) Lab Number
Field Measures: Temp (*C)	Dissolved Oxygen (mg4)	pH (S U ) Conductivity (umhos/om)
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	e Recard all cheervations. Visit	ter collections options! NDTE: all worther samples et ut be Noted
	s, Record all observations. Voud	ner volladi ona opti cevil. 1907ED ali vovetner canaj ina must be la saleka fa anteeta laun tra Prima y Hando valer Hando di Assensament Manuali Observer@r(IRI)Voucher? (VIN)Voucher?r(VIN) alic Macromvert etimtes. Observer? (VIN)Voucher?r(VIN)
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BIOTIC EVALUATION Performenty (YML)	s, Record al dovervations. Vood and approximate set do her? (Vh)	Ide sent tables to the theory that the tables of

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Stream 37 - Modified Class 1

Stream	38	-	Modified	Class	1
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HA NOT-032816 10

Ching Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) : SITE NAMELOCATION (2004) NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CHANNEL ONNE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY MODIFICATIONS: Within trans ROW SUBSTRATE (Emlimate percent of every type of substrate present, Check OMLY two predominent substrate TYPE boxes (Mex of 40). Add Iolai number of significant substrate types found (Max of 6). Final metric score is sum of boxes A & B 6 HHEI Metric Points PERCENT PERCENT BLOR SLABS (16 plu) BOULDER (>256 mm) (18 plu) SILT [3 pt] LEAF PACKWOODY DEBRIG [3 pts] -----10 Subsirale 
 BODICOEK (>26 mm) [10 pig]

 BEDROCK [16p]

 COBBLE (65-256 mm) [12 pig]

 GRAVEL (2-64 mm) [10 pig]

 SAND (<2 mm) [10 pig]</td>

 470
 FINE DETRITUS [3 pls] CLAY or HARDPAN [0 pl] Max = 40 00 Ø0 MUCK [0 pls] 14 ARTIFICIAL [3 pls] Total of Percentages of IA Bidr Stabs, Boulder, Cobbie, Bedrock \_\_\_\_\_ IA BCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: (B) ~~ 4 A+B z Nax = 30 000 5 MAXIMUM POOL DEPTH (centimators): COMMENTS BANK FULL WIDTH (Meesured as the average of 3-4 mean > 4.0 metric (> 13) (30 pte) > 3.0 m - 4.0 m (> 6 7 m - 13) (25 pte) > 1.5 m - 3.0 m (> 4 6 m - 9 m) (20 pte) surements) (Check ONLY one box); □ > 1.0 m - 1.5 m (> 3'3" - 4'6") [15 pts] (3) ≤ 1.0 m (≤ 3'3") [5 pre] Bankfull Width Max=30 5 2 AVERAGE BANKFULL WIDTH Invite COMMENTS\_ This information must also be completed RIPARIAN ZONE AND FLOOGPLAIN QUALITY SNOTE: River (aft()) and Right (R) as looking downstream \$ RIPARIAN CONE AN (Par Banh) Wide > 10m L R (Most Predominent per Benk)
 Mature Forest, Weitend
 Field ज्ञात्व. ۵Ô Conservation Tillage Urban or Industrial an. Moderate 5-10m Open Paslure, Row Crop Mining or Construction D Narrow <5m Residential, Park, New Field 80 00 COMMENTS\_ Fenced Pasture FLOW REGIME (AI Time of Evaluation) (Check ONLY one box): Stream Flowing Dublic for the box: Dublic flowing Dublic flow white (statistic pools, no flow (Internitiont) Comment of the statistic pools, no flow (Internition) Comment of the statistic pools, no flow (Internition) Downland, Internition) Downland, Internition 8 SINUQ SITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None \_\_\_\_\_\_10 \_\_\_\_20 0.5 \_\_\_\_\_25 \_\_\_\_25 None 0.5 BTREAM GRADIENT ESTIMATE D Moderate 12 17100 m 2 Moderate to Severe Severe . 12 Million PHWH Form Page - 1

#### Stream 38 - Modified Class 1 111-1107-03:816-10 ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed): QHEI PERFORMED? - ] Yes 30 No QHEI Score \_\_\_\_\_ (II Yes Altach Completed QHEI Form) DOWNSTREAM DES:GNATED USE(S) Distance from Evaluated Broam WWH Name \_ Distance from Evaluated Stream Distance from Evaluated Stream CWH NAME MAPPING ATTACH COPIES OF MAPS, DICLUDING THE ENTIRE WATER SHED AREA. CLEARLY MARK THE SITE LOCATION NRCS Soil Map Page \_\_\_\_\_ NRCS Soll Map Stream Order \_ USGS Quadrangle fiam Township / City \_\_\_\_ County (EnlyAM) MISCELLANEOUS Flow Conditions? (YAN). N Date of last precipitation 0.3/29/16 Quantity ...... Protogram Information: 2 Posta Spother Post Steam Elevated Turbichly (YN) N Dancou (The open) 20 Were samples collected for water chemistry? (Y/Nr \_\_\_\_\_\_\_ (Note like sample no or to and state render) Las tamber Dissolved Oxygen (mgA) \_ pH (SU)\_\_\_\_ Field Measures: Temp (°C) is the sampling reach representative of the stream (VIN) \_\_\_\_\_\_ If not places explain\_\_\_\_ Additional comments/description of polution monitor \_\_\_\_\_\_ BIOTIC EVALUATION Performed? (VAN) \_\_\_\_\_\_ (II Yee, Record all diservations. Voucher collections optional. NOTE: all ID number. Include appropriate Beld data sheets from the Primery Hoadw Fish Coserved? (YRN)\_\_\_\_\_\_ Vouchet? (YRN)\_\_\_\_\_ Salamenders Observed? (YRN)\_\_\_\_\_ Vouchet? (YRN)\_\_\_\_ Frogs of Tadpoles Observed? (YRN)\_\_\_\_\_ Voucher? (YRN)\_\_\_\_ Aquatic Macroinvertebrates Observed? (YRN)\_\_\_\_ Comments Reparting Bolagy \_\_\_\_ DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): toclude im vrtant land marks and other features of interest for site evaluation and a narrative dosc ADW Einge p $(P_{1})$ m rul Que in 1 () 118 10 PLOW -9022 m m m 27 1111-02

HÞ	NAMELOCATION Gard, J 1-MDT-032816-09 JUTE NUMBER	07	NUMER DADAY		RAINAGE AREA (m <sup>2</sup> )
	11 OF STREAM REACH (A) - 2 (2)		LONG RIV	ER CODE_	RIVER MLE
NO	TE: Complete All Items On This I	orm - Refer	to "Field Evaluation Manual for	Ohio's PH	WH Streams" for Instru
STR			ANNEL RECOVERED DREC	overing (	RECENT OR NO RECO
MO	DIFICATIONS: T-Lu	re 110h	(within)	_	
			substrale present, Check ONLY two le types found (Max of B), Final metric		
TYP	E	PERCENT	TYPE		PERCENT
			LEAF PACKWOODY	DEBRIS	pte] <u>10</u>
		- c	FINE DETRITUS [3]     CLAY OF HAROPAN		
		10	D D MUCK [0 pls]	to but	
121	SAND (<2 mm) [8 pts]	40	ARTIFICIAL (3 pts)		
	Total of Percentages of Bidr Slebs, Boulder, Cobble, Bedroc	5	IAI CI		(B)
ICON	LE OF TWO MOST FREDOMINATE BU		TOTAL NUNBE	R OF BUBS	RATE TYPES:
1	Masimum Pool Depth (Measure m	e maxhmum pe	not depth within the 61 meter (200 ft	evstusion	each at the hme of
÷.	evaluation. Avoid manage pools from = 30 continuetors [20 pts]	rout rolverts o	(Check ONLY	one box;:	
貫	> 225 - 30 um (30 uts)		< 5 cm [5 pin]	prag	
				110000000000000000000000000000000000000	in the second second
<u>u</u>	> to - 22 5 on [25 pts]			1000	Product 1 1 "
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je E	COMMENTS	the Average of	MAXMUN Profile	NOL DEPTH	Commenters):
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	СОМИЕНТВ ВАКК FULL WIDTH (Мезилий на < 4.0 mateus, b 13) (30 ptel > 3.0 m < 40 m (97 m 13) (35 ptel > 1.5 m < 3.0 m (< 4' 6 ~ 0 7') (35 ptel COMMENTE	ODPLAIN QUA FLOOD L R	MAXIMUU PC MAXIMUU PC 3-4 moscuremon(s) (Circue > 10 m - 15 m ir 3 C 10 m (c 3 37) Bp AVERAGE BU AVERAGE BU Information must also be complate UTY JHOTE Rem Left D and PLAN COULTY	AVARTED L DEPTH	Province 111 (continentines): 111 (continentines): (pTH (maters) (conservation thisage
	Соницента_           Ваку ГЛЦ, WDTH, Макроний ка           • Conside to 110 (Dong)           • 30 m + 40 m (of 7 - 13) (Dong)           • 30 m (of 8 - 07) (20 µc)           • 15 m - 30 m (of 8 - 07) (20 µc)           Comment of the 10 m (20 µc)           If PARIAN ZONE AND PLO           BURAINAN ZONE AND PLO           BURAINAN ZONE (AND PLO           If Que (10 m (20 µc))           If Que (10 m (20 µc))           If Que (10 m (20 m (		MADIUM P (3-4 messuraments) (Chee > 1.0 m - 1.3 m + 3 < 1.0 m - 1.3 m + 3 < 1.0 m - 1.1 m + 3 AVERAGE BU AVERAGE BU AVE	k OALY one 3'- 4' 8') (15 X9) ANKFULL W d Right (1) as L R L R	Provide Construction Construction Construction
	COMMENTS	doplain qua <u>Flood</u> L R Q Q <b>R</b> Q Q <b>R</b> . Q	MAXIMUM PA I - 4 mossurements) (Chee	COL DEPTH & OALE Yons 3'-4'87) [15 3'-4'87] [15 3'-4'87] [15 4 ANARFULL W C C C C C	Reveller L.
	Соницента_           Ваку ГЛЦ, WDTH, Макроний ка           • Conside to 110 (Dong)           • 30 m + 40 m (of 7 - 13) (Dong)           • 30 m (of 8 - 07) (20 µc)           • 15 m - 30 m (of 8 - 07) (20 µc)           Comment of the 10 m (20 µc)           If PARIAN ZONE AND PLO           BURAINAN ZONE AND PLO           BURAINAN ZONE (AND PLO           If Que (10 m (20 µc))           If Que (10 m (20 µc))           If Que (10 m (20 m (		MADIUM P     ADULTING      Chec     10 m - 13 m - 3     Chec     10 m - 13 m - 3     Chec     Che	k OALY one 3'- 4' 8') (15 X9) ANKFULL W d Right (1) as L R L R	Provide a construction of the second
	COMMENTS	odpelain qua FLOOD L R D Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	MADIUM MADIUM (Chec ) - 1.0 m - 1.3 m - 3 - 1.0 m - 1.2 m - 2 - 1.0 m - 2 - 1.0 m - 1.2 m - 2 - 1.0 m -	COL DEPTH & OALE Yons 3'-4'87) [15 3'-4'87] [15 3'-4'87] [15 4 ANARFULL W C C C C C	Reveller L.
	COMMENTS	I ODPLAIN QUA <u>FLOOD</u> L H Z Z Z Z Z Z Evelusion)	MADIUM P MADIUM P 13-4 messurements) (Chee > 1.0 m - 1.3 m + 3 < 1.0 m - 1.3 m + 3 < 1.0 m - 1.3 m + 3 < 1.0 m - 1.3 m + 3 AVERAGE P AVERAGE P AV	AMARFULL W           AMARFULL W           AMARFULL W           Image:	Conservation Triage     Unance of the device of the d
	COMMENTS	This odpLAIN QUA ELOOO L R 2 2 2 2 3	Maxiful Processor     Average State State     Average State	AMARFULL W           AMARFULL W           AMARFULL W           Image:	Conservation Triage     Unance of the device of the d
	COMMENTS	This odpeLain Qua Peoco 20 20 20 20 20 20 20 20 20 20 20 20 20	MADIUM P (1-4 mesurements) (Chee > 1.0 m - 1.3 m + 3 < 1.0 m - 1.3 m + 3 < 1.0 m - 1.3 m + 3 < 1.0 m - 1.1 m + 3 AVERAGE BU AVERAGE	ANARFOLL W Regist of an Construction Cons	Conservation Titage     Usans of boystel     Open forces     Monage of Conservation     models, no flow (intermillent)     homege
	COMMENTS	DOPLAIN QUA	MADIUM P     MADIUM P     ADIUM     ADIUM     ADIUM P     ADIUM P     ADIUM P     ADIUM P     ADI	ANARFOLL W Regist of an Construction Cons	Conservation Triage     Unance of the device of the d
	COMMENTS	This odpPLAIN QUA FLOOD L R Z 2 Z 2 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	MADIUM STATUS	ANARFOLL W Regist of an Construction Cons	Conservation Tillage Udays to housited Other services (Other services) Conservation Tillage Udays to housited Other services (Other services) Udays to housited Other services (Other services) (Other

Stream 39 - Modified Class 1

- Modified Class 1	14-1001 027816-59
ADDITIONAL STREAM INFORMATION (This Information Meet A	ise be Completed).
QHEI PERFORMED? TYes A No OHEI Score	(II Yes, Atlach Completed QHEI Form)
CWH Neme	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
	ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Cuschangle Name	NRCS Sof Map Page NRCS Sol Map Stream Order
Countra Tow	wriship / City
Field Measures Temp (*C) Dissoved Oxygen (mg/)	or i photophyra
Additional comments/description of pollution impacts $P^{2/2}$	
BIOTIC EVALUATION Performed? (Y/N)/ [/ Yes, Record all chaervalions, Vou ID number Include appropriate Sea	ionet eoliosiuona optionual. HOTE 📓 koucher samples much to labeled auth the Jaka steeds from hin Pommry Heodinader Habital Assessment Manuali
Fish Observed? (Y/N) Voucher? (Y/N) Salamender Fregs or Tadpales Observed? (Y/N) Voucher? (Y/N) Ad	rs Observed? (Y/N) Voucher? (Y/N) Gualic Macroinvertetwales Observed? (Y/N) Voucher? (Y/N)

Stream 39 - Modified Class 1

Stream 40 - Modified Class I

Comments Reparcing Biology \_\_\_\_\_ DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Instance important lucineses and other taken are eleveness for the evaluation and a new store description of the stream's location 2.0 (B) print grand  $[0]_2$ FLOW -10-04  $l_i' \flat_i$ 69 m

Manual Association (Contract

111 MOT-032 116 01

MIL MOTOR MARCHINE	
ChiePA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) :	
STE NAMEROCATION STATUT ROOM - Proceeders	-
HH-MDT-032916-01SITE NUMBERRIVER BASIN DRAINAGE AREA (ml <sup>2</sup> )	
ENGTH OF STREAM REACH (1) 2004 LAT LCHG NWER CODE RIVER MILE	-
ATE 13/21/16 SCORER MOT 101R COMMENTS ECONTRACE	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PrWH Streams" for Instruct	
TREAM CHANNEL ONNE / NATURAL CHANNEL OF RECOVERED RECOVERING RECENT OR NO RECOVE	RY
MODIFICATIONS: Atr word near lead	
TYPE PERCENT TYPE PERCENT	HHEI Aetric Points
BOULDER (>258 mm) [16 pte] LEAF PACKWOODY DEBRIS [3 pts]	
	ubstrate text = 40
GRAVEL (2-64 mm) [9 pts]	14
SAND (<2 mm) (# 614)     ARTIFICIAL [3 pis]	(7)
Total of Percentages of (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	A + B
CORE OF TWO MOBT PREDOMINATE SUBSTRATE TYPES:	
	oul Depth
evaluation Avoid plunge prois from road culvers or storm viag ment) (Check ONLY one box) > 30 centimeters (20 pts) > 5 cm - 10 cm (15 pts)	tax = 20
>225 - 30 (m (50 pls) - 5 cm (5 pls) + 10 - 725 cm (75 pls) P1 NO WATER ON MOIDT CHANNEL (0 pls)	0
Josh 4 Of	
	itur ind
> 4.0 m elers (> 13) [30 pte] > 4.0 m elers (> 13) [30 pte]	Width
□ > 3.0 m - 4.0 m (> 6/7 - 13) [25 pte] □ > 1.5 m - 3.0 m (> 4/6' - 6/7) [20 pte] ↓ 4 ↓	Acres 1
COMMENTS AVERAGE BANKFULL WIDTH (molers)	5
This information <u>must</u> also be completed ສາອລສເລກ ZONE AND FLOODPLAIN GUALITY ທີ່NOTE: River Left (L) and Right (R) as jooking downstream ທີ	
RIPARIAN ZONE AND FLOODPLAIN QUALITY & MOTE: River Left (L) and Right (R) as looking downstream <u>RIPARIAN WIDTH FLOODPLAIN QUALITY</u>	
L R (Most Predominiant per Bank) L R V Mule + 10m O Meture Forost, Wotland O Conservation Tillage	
The Angle States The The The Angle States Shrub or Old The Lidean or Industrial	
Field Oven Pasiure, Row	
Nerrow <5m     Crop     Crop     None     None     Some     S	
COMMENTE L'appelised TONIC-ASSESS ROM	
FLOW REGIME (Af Time of Evaluation) (Check OWLY one box): Stream Flowing Gubyerface flow vihi isolated pools (no flow (Intermitten)) Dry shannel, no water (Ephemeral)	
EDW/EWING	
SINUOSITY (Number of bends per 61 m   200 N of channel   [Check ONLY one box)	
□ None □ 10	
STREAM GRADIENT ESTIMATE	
🗍 Fiel (0 Section 6.) 🗌 Fiel to Moderate 🔄 Moderate ; Fillora 🖉 Moderate to Sector 💭 Sector 6.	

QHEIPERFORMED7 - L. Yes (2) No (2)	HEI Score (II Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WAVE Nome	Distance from Evalualed Stream
	Distance Pers Evaluated Science
EWH Name	Distance from Evaluated Stream
	LUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name	NRCS Soil Map Page NRCS Soil Map Stream Oroer
Courty	Tourship / City
MIDCELLANEOUS	
Base Flow Conditions? (YA) N Date of last	accestor (13/28/16 Quantity ?
Photograph Information ? P. J. Jose, 1	lastices & the stress
Elevelet Turbidy/ IVIN) _A Cemopy (Vi	
	Note lat sample no or or une allach results) (ah Number
Held Maasures Temp (*C) Dissolved Dx	/gen. (mgh) bH (5 U ) Conductivity (pinhos/cm)
is the sampling reach representative of the stream (Y/	h.j // If not please mything
	1110
Arbblingal crimp ents/desc iptiga of solution mounts	C//6
Aquiliunal commentandeso iptica el poculor innereta BIOTIC EVALUATION Floriorme 57 (Y/N) (I' Yes, Record al class	valions. Voucher constants assess NOTE all voucher complete much be labeled volin
BIOTIC EVALUATION Ferformed7 (Y/N) <u>M</u> (() Yes, Record all clubs 10 houses and all clubs	
BIOTIC EVALUATION Ferformed7 (Y/N) (I Yes, Record al cluss Discord al clus	nonans, Yuushin opinishaa aykaraa NOTE'si vuunne nongees muut ba lahaa suba sugaraa kali data Abeela fura kan Pittary taabuuri Habiat Asemistenti Manuel Subana data General (1999) - Vuuntari (1991)
BIOTIC EVALUATION Ferformed7 (Y/N) (I Yes, Record al cluss Discord al clus	nonans, Yuushin opinishaa aykaraa NOTE'si vuunne nongees muut ba lahaa suba sugaraa kali data Abeela fura kan Pittary taabuuri Habiat Asemistenti Manuel Subana data General (1999) - Vuuntari (1991)
HOTTE EVALUATION Par'ormed? (I/N) (I/Yes, Resord et diss Banutise, Boode et Fish Cose ved? (YAI) Vouche? ( Frons a Tagoles Observe? (I/A) Vouche? ( Cenner ets Reserving Boody	nostans. Visuther Gere dama systemic NOTE: all voucher complete much be labeled volint inspirate beil dez Areste fan Bin Primary Institution Assembler Bullands Salemandes Observert (VM) Voucher? (VM) //N) Aqualic Merodevortebrates Observer? (VM) Voucher? (VM)
HOTIC EVALUATION           Performed? (1/A)	vosteas. Vauene dore dans agterial. NOTE al voucher complex must be labeled volt-     rappene bed data bette fore the Primary Hasticane Habita Asterna end Manual     Savemanders Observen? (YA) Voucher? (YA)     (N) Aquale Microdevortebrates Observed? (YA) Voucher? (YA)  ESCRIPTION OF STREAM REACH (This <u>must</u> be completed):
HOTIC EVALUATION           Performed? (1/A)	
HOTIC EVALUATION           Performed? (1/A)	vrsteas. Vauelier opredaministationer. NOTE: al voucher complex much be labeled volor- propriete field data better from the Primary Handback Hallman -  Savemanders Observeri? (YAN) Voucher? (YAN) (RI) Aqualic Microdevortebrates Observeri? (YAN) Voucher? (YAN) EBCRIPTION OF STREAM REACH (This must be completed):
HOTIC EVALUATION           Performed? (1/A)	
HOTIC EVALUATION           Performed? (1/A)	
EIGTIC         EVALUATION           Performed?         ((1'yes, Record et disas)           Performed?         (VAI)           Performed?         (VAI)           Performed?         (VAI)           Performed?         (VAI)           Performed?         (VAI)           Performed?         (VAI)           Conserved?         (VAI)           Conserved?         (VAI)           Drawing AND NARRATIVE D	
BIOTIC EVALUATION For ome of IVAL  For ome of IVAL  (I) Yes, Record at data  For one of Tacklor at the other of the other	
BIOTIC EVALUATION For ome of IVAL  For ome of IVAL  (I) Yes, Record at data  For one of Tacklor at the other of the other	
BIOTIC EVALUATION For ome of IVAL  For ome of IVAL  (I) Yes, Record at data  For one of Tacklor at the other of the other	
BIOTIC EVALUATION For ome of IVAL  For ome of IVAL  (I) Yes, Record at data  For one of Tacklor at the other of the other	
BIOTIC EVALUATION For ome of IVAL  For ome of IVAL  (I) Yes, Record at data  For one of Tacklor at the other of the other	

	41 - Modified Class I			HH M	07-1033916-	673
Chiel	Primary H	eadwa	ater Habitat Evaluati HHEI Score (su	ion For	m 26 1, 2, 3) :	7
	CATION Game Hone - A		the second s			
	916-02 SITE NUMBER A			DRAIN	AGE AREA (mi*)	_
And a second second second second	inolt.		LONG RIVER	CODE	RIVER MILE	
DATE AZ	1/16 BOORER MOTIGE	R CON	MENTS Epherical			-
UATE TAT	- Inte All Items On This Form	Rofer to	"Field Evaluation Manual for Oh	IO'S PHWH	Streams" for Instru	ctions
NOTE. COM			INEL CRECOVERED DRECOVE			
STREAM CHA			INEL DE RECOVERED ED RECOVE		EGENT ON NO NEODA	
(Mac of TYPE TYPE TYPE TYPE TYPE Bit Second	C 40) Add teal remover of sponten C 40) Add teal remover of sponten C 40) Add teal remover of sponten D 40 C 41 C	AUDURATE RCENT S C C C C C C C C C C C C C C C C C C	al depth within like 51 me tar (200 ft) as storm water piper) (Check ONLY on 5 cm - 10 cm [15 pts 4 5 cm [5 pts] 10 WATER OR MOUT MAXIMUM POO	SERIIS (2 pris) pr pr subustran valuation react s boxy T CHARGEE ( L DERTHI (25 pres) ALLY one box - 4 (5) (15 pres)	(B) 5 (B) 5 TE TYPES: 5 hallhaline of Perio (C) (C) (C) (C) (C) (C) (C) (C)	HHEI Metric Bubsirale Max = 40 14 A + B Pool Depth Max = 30 D Barrichull Wildh Max = 20 S
	RIPARIAN ZONE AND FLOODP	LAIN QUAI	Information <u>must</u> also be completed LTTY & &NOTE: River Left (L) and <i>Re</i> PLAIN QUALITY	ght (R) as looi	king downstream to	
LR	(Per Bank)	LR	(Most Predominant per Bank)	μ Π Π	Conservation Tillage	
风Ģ			Mature Forest, Welland Immature Forest, Shrub or Old		Urban or Industrial	
	Moderate 5-10m	ØØ	Field		Open Pesture, Row	
	] Neutow <5m	ø 🗆	Residential, Park, New Field	- UU ,	Crop	
		00	Fenced Pasture		Mining or Construction	
		_				
	None COMMENTS FLOW REGIME (At Time of Eval Stream Flowing Software flowing COMMENTS		Moisi Channel	isclated pool to water (Ephi	is_no flow (Intermittent) emeral)	-
00	COMMENTS FLOW REGIME (At Time of Evel Stream Flowing Suburbace flow with isolated peet	s (Interstici	Dry channel, n	o walar (Ephi	is, no flow (Intermittent) emeral) 3 D >3	-

QHEI PERFORMED? - C Ye	s 🖾 No OHEIScore	(II Yes Atlach Complet	ed QriEl Form)
DOWNSTREAM DESIGNATE	n use(s)		
WWP Name:		Distance	from Evaluated Stream
CV/H Name		Distance	from Evaluated Stream
EWH Name			fom Evaluated Stream
MAPPING: ATTACH COPIES O	F MAPS, INCLUDING THE ENT	IRE WATERSHED AREA. CL	EARLY MARK THE SITE LOCATION
USG3 Qued and in Name		NRCS Soil Map Page	NRCS Soil Map Stream Order
County:	Townsh	ip / Clly	
MISCELLANEOUS //			-2
Base I w Conditions? (YA) <u>N</u> ( Photograph Internetion <u>Z P</u>	Detworf light precipitation: _//	3/2.8/16 Quant	ity
Photograph Intermetion 2 Pfin	too : Moost um	+ Answertram	
Elevated Turbidity? (YAN)	Canopy (% open) 15		
Were samples collected for water chemis	. /	sample ao òr id and altach r	esulls) Lab Number
Field Measures Temp (*C)	Dissolved Oxygen (mg/l)	pH (& U ) Co	nduclivity (µmhos/cm)
is the sampling reach representative of th	ne stream (YAN) 4 Hinos o	leose explain	
	The share of		
	nt/A		
Additional commentations of polar	the moads 10/11		
BIOTIC EVALUATION			
BIOTIC EVALUATION			
Performed? (V/N) N MY	trund all chaervaliens. Watchar	culturations optional HOTE at	watter service must be labeled with t
Performed? (Y/N) (# Yes, %	r. Include appropriate field data	sheets from 2:4 Prinsiy Heads	ater Habitat Assessment Manual)
Performed? (Y/N) (# Yes, %	r. Include appropriate field data	sheets from 2:4 Prinsiy Heads	ater Habitat Assessment Manual)
Performed? (YIN) (#Ym. 1) Denete Fish Observed? (YIN) Voucher? Frogs or Tadpoles Observed? (YIN)	r. Include appropriate field data	sheets from 2:4 Prinsiy Heads	ater Habitat Assessment Manual)
Performed? (V/N) N MY	r. Include appropriate field data	sheets from 2:4 Prinsiy Heads	ater Habitat Assessment Manual)
Performed? (Y/N) (/ Ym h Downto Fish Observed? (Y/N) Voucher? Frogs or Tacboles Observed? (Y/N)	r. Include appropriate field data	sheets from 2:4 Prinsiy Heads	ater Habitat Assessment Manual)
Performed? (Y/N) (/ Ym h Downto Fish Observed? (Y/N) Voucher? Frogs or Tacboles Observed? (Y/N)	r. Include appropriate field data	sheets from 2:4 Prinsiy Heads	ater Habitat Assessment Manual)
Performed? (VN),	r Incode appropriate Bell data ? (YNI) Salam enders Ob . Voucher? (YNI) Aqualic	served? (Y/N) Vouch Macroinvertebrates Observe	ater Habitat Assessment Manual)
Performed? (VN),	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	alar (abla: Assesment) Manual) #? (YAI) Voucher? (YAI) d? (YAI) Voucher? (YAI)
Performed? (VN),	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
Performed? (VN),	<ul> <li>(WR)Salamanders Ob Voethel? (Y/N)Aqualo</li> </ul>	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
Performed? (VN),	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
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Performed? (VN),	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
Performed? (VN) (4 Yes, 8 Generative Fish Observed? (VN) Vourther? Frags Tradiole Observed? (VN) Connects Regarding Biddoy  DRAWING AND NARI include important Landmarks and	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
Performed? (VN) (4 Yes, 8 Generative Fish Observed? (VN) Vourther? Frags Tradiole Observed? (VN) Connects Regarding Biddoy  DRAWING AND NARI include important Landmarks and	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
Performed? (VN) (4 Yes, 8 Generative Fish Observed? (VN) Vourther? Frags Tradiole Observed? (VN) Connects Regarding Biddoy  DRAWING AND NARI include important Landmarks and	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
Performed? (VN),	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
Performed? (VN),	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که
Performed? (VN) (4 Yes, 8 Generative Fish Observed? (VN) Vourther? Frags Tradiole Observed? (VN) Connects Regarding Biddoy  DRAWING AND NARI include important Landmarks and	r Indiate agenge de Tau data (V/H)Salemenders ob Voucher? (V/N)Aquelo RATIVE DESCRIPTION father termunes of interest for	Served? (YM) Vouch Macroinvertabrates Observe	الله: (۲۵۸۱ کی کو معادر ۲۵۱ کی کو که معادر ۲۵۱ کی که

## Stream 42 - Modified Class II

Stream 41 - Modified Class I

	ORMATION (This Information Must		
QHEI PERFORM	ED7 - 🗆 Yes 🖉 No. QHEi Score _	(If Yes, Allach Co	ompleted QHEI Form)
DOWNSTREAM I	DESIGNATED USE(8)		Istance from Evaluated Stream
J WAVH Name		UI	stance from Evaluated Stream
D EWR Name		Dit	stance from Evaluated Stream
MAPPING: ATTA	CH COPIES OF MAPS, NICLUDING TH	E ENTIRE WATERSHED ARE	A. CLEARLY MARK THE BITE LOCATION
USGE Quadrangie Name_		NRCS Sol Map Page	NRGS Sal Map Stream Older
County			
MISCELLANEOU			
Dues Daw Cambles NA	Dale of last press and	03/28/16	Cupity 2
Bilds yow Cougnoise (1).	4 Platos, Upo	Turner & Downord	lucam <sup>(1)</sup>
Photograph Information	N Canapy (14 open)	252	All all and a second se
Elevated Turbidity? (Y/N)	Canapy (14 open)	and the second	
			Hoch HISVISI Lab Number
Field Measures Temp (	(°C) Dissolved Oxygen (m@/)	pH (SU )	Conductivity (umhos/em)
is the sampling reach repre	esentative of the stream (YAN) $\underline{Y}_{-}$ .	I nol, please transm	
	plion of peixton mands 11/4		
Programme current coarce are	Provide and and a second		
5-1-01	ID numora: solude appropriate field Voucher? (Y/N) Salamand ed? (Y/N) Voucher? (Y/N)	id gata sheets from the Printing	OTE: all voucher semples must be labeled w y Neadwater Habitat Asservament Menuals Voucher? (Y/N) Observed? (Y/N) Voucher? (Y/N)
	AND NADDATIVE DESCOID	TION OF STREAM REA	ACH (This must be completed):
			intervalive description of the stream's last
	. ლ	1 T. 1:10 1	Q_m C. a
ongi	(m) //	1	65 2 0.
Will	VIP V	North W	1 11 11 100
$\mathcal{O}_{\mathcal{O}}$	dl	111	
6. Ch	(P) (P) (1)	1-	Gliden All
	TP PI C. WILL	o put	Grine 194
6. Ch	TP ET CULL	and C	· · Ag
6. Ch	TP PI COM	and C	·: Ag
6. Ch	A P P P	and City	· · · Ag

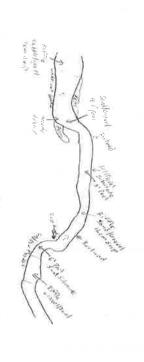
Stream 42 - Modified Class II

SCER	Primary H		HHEI Score (sum o	r metrics 1, 2, 3) : <u>ンン</u>
HH-M	DT-032916-03	03_ RIVE	LONG RIVER COD	ERAINAGE AREA (mi <sup>n</sup> )
	23/19/16 scorer 10170 E: Complete All Items On This Form			PHWH Streams" for Instructions
			BRECOVERED BRECOVEREN W + Stream For	
1. TYPE	SUBSTRATE (Estimula percent of aver (Max of 40), Add total number of significe	ry type of substrate ant substrate types to ERCENT TYP	ound (Max of 8) Final metric score is	SUM OF DOXES A & B HHI PERCENT MEL
	BLDR SLABS [16 pts]		SILT [3 pl]	
	BEDROCK [16 pt]		FINE DETRITUS [3 pts]	Subeti Mex =
		<u>15</u> DI 30 DI	MUCK [0 ple]	20
	SAND (<2 mm) [8 pl8]	30 01	ARTIFICIAL (3 pla)	L
	Totel of Percentages of Bidr Slabs, Boulder, Cobble. Bedrock	15 (A) 1	5 TOTAL NUMBER OF SU	(D) S A+D
2 CORE	Maximum Pool Digith (Measure the ma	aximum pool depth	within the 61 meter (200 fo evaluat	ion reach all the lime of Pool De
(7)	=-stuation. Avoid prunge polits from roki > 30 centilmeters [20 pts]	culverts or storm we	sternices) (Chells CMLY one box)	Max
8	> 22.5 - 30 cm [30 pts] > 10 - 22 5 cm [25 pts]		C <5 cm [5 abit	Contin 10 pers) 20
	CONVENTS		MAXIMUM POOL DE	PTH (cantinations): 14"
3 g	BANK FULL WIDTH (Measured as the > 4 Ometers (> 13') [30 ple]	everage of 3-4 mea	A > 1.0 m + 1.5 m (> 3'3" + 4"8")	one box): Banki [15 pie] Widu Max=
8	> 3 0 m - 4 0 m (> 9 7 - 13') [26 pts] > 1.5 m - 3.0 m (> 4'8' - 6'7') [20 pts]		[] ≤ 1.0 m (≤ 3°3°) [5 pte]	ant Willie
	COMMENTS		AVERAGE BANKFUL	
-			lion <u>musi</u> also be completed	
	RIPARIAN ZONE AND FLOODF RIPARIAN WIDTH	FLOODPLAIN QU		as looking downsiream \$
	L R (Per Benk)		Predominani per Bank) L I Forest, Welland D	R Conservation Tillage
			ure Forest, Shrub or Old	Urban or Industnal
	Moderate 5-10m	Field		Coper Pasture, Ros
	Moderate 5-10m	Field	ntel, Park, New Field 🛛 🗍	Crop
		DD Riston	Patter / _ Of	Crop
	Nerrow dm	Internet Check ON	LY one box):	chop Mana er Canstynsten In Call Call Call Call
	Nerrow 45m     None     COMMENTS	Iveban) (Check ON	LY one box): Moist Channel, isolal	chop Mana er Canstynsten In Call Call Call Call

m 43 - Good Warm			( and warren		
<b>OhioEPA</b>		Habitat Evaluation ssessment Field S		HEI Score:	65.5
Stream & Location:	SH Harrison Qt	1-3/23/16-1		Date: _ 3	2012/01/10
		Scorers Full Name & Af		Econe, DE	Office service
River Code:	- STORET #:	Lat/Long.:		4 (D. 10) (D. 10)	- Apole
1] SUBSTRATE Check (	SWLY Two substrate TYPE BOX		Check ONE (Or 2		
BEST TYPES PO	OTHER TY		IGIN	QUALITY CHEAVY (-2)	
BLDR /SLABS [10]			NEW YORK TOP	EZHODEDETE	[-1] Sub
BOULDER [9]     COBBLE [9]	3 14 D MUCK [2]	DWETLA	ND5 [0]	DINORMAL (0)	C 1
GRAVEL [7]	17 60 [] [SIL1 [2]	L [0] 3 0 DEANDS	AN [0]	DEXTENSIVE	1551
	20 20 ARTIFICIA	val substrates innote CIRIPMA	PIOL SUDOO	DEXTENSIVE PRODERATE NORMAL [0] NONF [1]	[-1] MA
NUMBER OF BEST TY	PES: 4 or more [2] sludge	e from point-sources)	TURINE (0)	NORMAL (0)	E
Comments	[0] 4asi to 21	COAL!	FINES [-2]	CI NONE [1]	
					_
2] INSTREAM COVER	Indicate presence 0 to 3: 0-Ab	And the second s	note common of marg all arbourds of Heaton	AMOUN	
quality; 3 Highest quality in	modenate or grasses amounts to	n , very large toxalders in deep o	a fast water, large	Check ONE (Or 2	
Conneter kig that is stable. I UNOFRCUT BANKS	(1) Z POOLS	> 70cm [2] OXBOW6. E	ACKWATERS [1]	MODERATE 25	76% [7]
OVERPOARCONTA REA	E Manager Martin	menali		D SPARSE 5-26"	
ROOTMATS [1]	W WATER) (1] BOULD	EAB (1)   LOGS OR W	OODY DEBRIS [1]		Cover
Comments					mum
000000					20
3] CHANNEL MORPHO	OLOGY Check ONE in each o	ategory (Or 2.6 merage)	110 00007		
SINUOSITY DEVE	ELOPMENT CHANN	ELIZATION STAT	BILITY		
	CELLENT [7] CHONE [6]				
D MODERATE (3) D GC	DOD [5] CAECOVER	HED [4] S MOD MNB [3] C LOW	JEHATE [2]		
MODERATE (3)     GO     LOW (2)     PFA     NONE (1)     PC	DOD [5] CAECOVER	HED [4] 2 MOL	JEHATE [2]		honne/
D MODERATE (3) D GC	DOD [5] CAECOVER	HED [4] S MOD MNB [3] C LOW	JEHATE [2]		
MODEHATE (3)     OG     COW (2)     PTA     NONE (1)     OG     Comments	ND RIPARIAN ZONE Che	HED (4) IF MOD INHO (5) IF LOW ON NO RECOVERY (1)	DERIATE [2] V [1] SH BANK (Cr 2 per to	M	abread a
MODERATE (3) G GG     MODERATE (3) G GG     LOW (3) GFA     NONE (1) GFA     Comments	ND RIPARIAN ZONE Che	LED [4] BY AND LINE (1) CON SIN NO RECOVERY [1] CK ONE IN WARTH CAMEGORY for EAC	DERATE [2] V(1) SY BANK (Cr 2 per to IN QUALITY	Afa	20
MODERATE (3)     OUV (2)     OV (2)		KED [4] COM INNO 13 COM CK ONE IN worth conlegary for EAC FLOOD PLAI DO FOREST, WYAMP [3]		Afa	20
MODERATE [3]     GO     MODERATE [3]     GO     MODE [1]     P     Comments      A     BANK EROSION A     EROSION     MONE / LITTLE [3]     Comments	DOD [5]         Checover           R[3]         Accover           NOR RIPARIAN ZONE CINE         RIPARIAN WIDTH           -         A RIPARIAN WIDTH           -         B RIPARIAN WIDTH           -         B RIPARIAN CONE CINE           -         B RIPARIAN WIDTH           -         B RIPARIAN CONE CINE	HED (4) CANCE HIND (3) CONVERY (1) CR ONE IN RECOVERY (1) FLOOD PLAN FLOOD PLAN CONVERT, SWAMP (2) CONVERT, SWAMP (2) CONVERTS,		M	ILLAGE
MODERATE [3]     GO     MODERATE [3]     GO     MODE [1]     P     Comments      A     BANK EROSION A     EROSION     MONE / LITTLE [3]     Comments	IDD [3]         IPECOVER           IR [3]         IPECOVER           IR [3]         IPECOVER           IR [3]         IPECOVER           IR [3]         IPECOVER           IPECOVER         IPECOVER	CONE in work category for EAC FLOOD PLAI CONE in work category for EAC FLOOD FLOOD FL		AG nk & annunger) ) CONSERVATION 1 URBAN OR INDU 1 MINING / CONSTR also production of lines	TELAGE
Audernare (a) a g Low (a) PTA None (1) Pro Comments     A BANK EROSION A _ EROSION     _ ONE (JTTLE (a) P MODERATE (a) P MODERATE (a) P MODERATE (a)	DOD [5]         Checover           R[3]         Accover           NOR RIPARIAN ZONE CINE         RIPARIAN WIDTH           -         A RIPARIAN WIDTH           -         B RIPARIAN WIDTH           -         B RIPARIAN CONE CINE           -         B RIPARIAN WIDTH           -         B RIPARIAN CONE CINE	HED (4) CANCE HIND (3) CONVERY (1) CR ONE IN RECOVERY (1) FLOOD PLAN FLOOD PLAN CONVERT, SWAMP (2) CONVERT, SWAMP (2) CONVERTS,		AG nk & arrouge) CONSERVATION 1 URBAN OR NOUS MINING / CONSTR 400 productional land 100m riportian Pal	TILLAGE
MODERATE [3]     O	IDD [3]         IPECOVER           IR [3]         IPECOVER           IR [3]         IPECOVER           IR [3]         IPECOVER           IR [3]         IPECOVER           IPECOVER         IPECOVER	CONE in work category for EAC FLOOD PLAI CONE in work category for EAC FLOOD FLOOD FL		AG nk & arrouge) CONSERVATION 1 URBAN OR NOUS MINING / CONSTR 400 productional land 100m riportian Pal	TELAGE
Woopenare (a)         0           Low(a)         PA           Nonet (1)         Pc           Comments         PA           BANK EROSION A:         P           P         EROSION A:           NONE/LITLE (3)         P           MODERATE (2)         P           MEAVY / SEVERE (1)         Comments	DOD [5]              PECOVER PROVING	CC OHE IN NUCL COMPANY [1]	VII) VII) VII) VII) VII) VII) VII VII VI	Ma nk & amouppe) CONSERVATION 1 URBAN OR INDU J MINING / CONSTITU I MINING / CONSTITUTION I MONTONIA I Man Ma	ntLLAGE STRIAL (C IUCTION (vat)(r) parten t0
Imperiate [3]         Imperiate [3]           Imperiate [3]         Imperiate [3] <t< td=""><td>DOD [3]              PECOVER INFARIAN ZONE INFARIAN ZONE INFARIAN WIDTH INFARIAN WIDTH INFARIAN WIDTH INFARIAN WIDTH INFARIAN ZONE INFARIAN WIDTH INFARIAN S-1000 INFARIAN S-1000 I</td><td>CURRENT V</td><td>VII) VII) VIII VIII VIII VIII VIII VIII</td><td>AG PA &amp; arround P D CONSERVATION T D URBAN OR HOUSE I WAINING CONSTIT AWARD CONSTIT AWARD CONSTIT AWARD AND AND AND AND AGA AGA P Recreation P</td><td>Amarina 20 TILLAGE STRIAL (C UUCTION Tool(IV) Parrien 10 20tortila</td></t<>	DOD [3]              PECOVER INFARIAN ZONE INFARIAN ZONE INFARIAN WIDTH INFARIAN WIDTH INFARIAN WIDTH INFARIAN WIDTH INFARIAN ZONE INFARIAN WIDTH INFARIAN S-1000 INFARIAN S-1000 I	CURRENT V	VII) VII) VIII VIII VIII VIII VIII VIII	AG PA & arround P D CONSERVATION T D URBAN OR HOUSE I WAINING CONSTIT AWARD CONSTIT AWARD CONSTIT AWARD AND AND AND AND AGA AGA P Recreation P	Amarina 20 TILLAGE STRIAL (C UUCTION Tool(IV) Parrien 10 20tortila
□ modefrare [3]         □ cow [3]           □ cow [4]         □ PrA           □ nonke [1]         □ PrA           □ monke [1]         □ PrA           □ monker/untrue [3]         □ Pranopenante [3]           □ Pranopenante [3]         □ Pranopenante [3]	DOD [5] <b>PECOVER</b> <b>REQUENT</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVE</b>	HED (4)         Chock           HIND (3)         Cove           SN ND RECOVERY (1)         Cove           CR ONE IN methical calegory for EAC         FLOOD PLAI           FLOOD PLAI         FLOOD PLAI           Cove         Cove           Cove         Cove           Cove         Cove           Cove         Cove           FLOOD PLAI         Cove           Cove         Cove           Cove	>>>         >>>>>>>>>>>>>>>>>>>>>>>>>>>>	Kis conservation of uneaxion on modul uneaxion on modul uneaxion on social tobri postari and find tobri postari and kia Recreation P Primary Cr	Amarina 20 TRLLAGE STRIAL (C LUCTION Invol(V) Potential confact
Imperiance (a)         Got           Imperiance (a)         Got           Imperiance         Got </td <td>DOD [3]              PECOVER PENDEV PECOVER</td> <td>COURT         COURT           Color         Color           Color         Color           Color         FLOOD PLAI           FLOOD PLAI         FLOOD PLAI           Color         FLOOD PLAI           Con</td> <td>SHEAAK (Gr 2 per ta N GUALITY</td> <td>Ada conserviction pression environment pression environment and predicertand trend to an experiment to an experime</td> <td>Include Strain ( Strain ( Stra</td>	DOD [3]              PECOVER PENDEV PECOVER	COURT         COURT           Color         Color           Color         Color           Color         FLOOD PLAI           FLOOD PLAI         FLOOD PLAI           Color         FLOOD PLAI           Con	SHEAAK (Gr 2 per ta N GUALITY	Ada conserviction pression environment pression environment and predicertand trend to an experiment to an experime	Include Strain ( Strain ( Stra
□ modefrare [3]         □ cow [3]           □ cow [4]         □ rAF           □ nonke [1]         □ PFA           □ nonke / untrue [3]         □ nonke / untrue [3]           □ nonke / untrue [3]         □ PModefrare [3]           □ Pmodefrare [3]         □ P modefrare [3]           □ Pmodefrare [3]         □ Pool, / GLIDE AMM           □ Ani(MM DEPTH choicy one [GWX]         □ D - 4-07m [3]           □ D - 4-07m [3]         □ D - 4-07m [3]	DOD [5] <b>PECOVER</b> <b>REQUENT</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVER</b> <b>ARCOVE</b>	EED (4)         Choose           Stand (3)         Conv	>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Ada conserviction pression environment pression environment and predicertand trend to an experiment to an experime	Annun 20 Internet Strikk (strike) Strike Strik Strik Strike Strik Strike
Moderiane (a)         Gameriane (a)           Low (a)         PrA           Nonke (1)         PrC           Comments         Provide (a)           Panke Sensor (a)         A           Provide (a)         Provide (a)	DOD [3]              PECOVER PENDEV PECOVER	COURT         COURT           Color         Color           Color         FLOOD           Color <td>SHEARK [0, 2 pm fail IN QUALITY</td> <td>Ada conservation 7 uneax of an andur uneax of an andur uneax of and 100m rooman has Recreation P Primary C Secondry C</td> <td>Includes Includ</td>	SHEARK [0, 2 pm fail IN QUALITY	Ada conservation 7 uneax of an andur uneax of an andur uneax of and 100m rooman has Recreation P Primary C Secondry C	Includes Includ
Imperiance (a)         Got (a)	DOD [3]              PECOVER PENDEV PECOVER	CUPRENT V         Cov           Cov         FLOOD PLAI           Cov         FLOOD PLAI      <	SHEARK [0, 2 pm fail IN QUALITY	Ada conservation 7 uneax of an andur uneax of an andur uneax of and 100m rooman has Recreation P Primary C Secondry C	Annun 20 IntLAGE StrildL (o UCTION) Intestiti Darien Xmun 20 Confact Confact Confact
Imperiate (3)         Gate           Imperiate (3)         Imperiate           Imperiate         Imperiate <td>DOD [5]        </td> <td>CURRENT V     CORE IN SECTION 20      CONTRACT SECTION 20      CON</td> <td>Ar BANK (Cr 2 pm for IN QUALITY IN QUALITY IN QUALITY IN REY FELD(1) WCROP (0) ELOCITY Set apply ELOCITY Set apply Set a</td> <td>Ada cel &amp; annunger) D URBAN OR INGUI URBAN OR INGUI URBAN OR INGUI URBAN OR INGUI INGUI INGUI Recreation P Primary C Secondary United and other C Ada</td> <td>relade strikt ( strikt ( strikt ( strikt) strikt ( strikt) stri</td>	DOD [5]	CURRENT V     CORE IN SECTION 20      CONTRACT SECTION 20      CON	Ar BANK (Cr 2 pm for IN QUALITY IN QUALITY IN QUALITY IN REY FELD(1) WCROP (0) ELOCITY Set apply ELOCITY Set apply Set a	Ada cel & annunger) D URBAN OR INGUI URBAN OR INGUI URBAN OR INGUI URBAN OR INGUI INGUI INGUI Recreation P Primary C Secondary United and other C Ada	relade strikt ( strikt ( strikt ( strikt) strikt ( strikt) stri
Modervare (a)         Go           Low (a)         PrA           Nonle (1)         PrA           Comments         Prank           4)         BANK EROSION A           FROSION         None / UTTLE (3)           PMODERATE (2)         Properator           PMODERATE (2)         Presson           PMODERATE (2)         Presson           S)         POOL / GLIDE AAXC           MAXIMUM DEPTIC         Comments           S)         POOL / GLIDE AAXC           MAXIMUM DEPTIC         Davernitis           Davernitis         Davernitis           Davernitis         Davernitis	DOD [5]	CURRENT V     CORE IN SECTION     CONTRACT, SWAMP (I)     CONTRACT, SWAMP	Ar BAAK (Cr 2 per ta IN GUALITY IN GUALITY IN GUALITY IN REW RELO[1] BE Courty Select (1) BE Courty Select (1) DE Courty Select (1) DE Court Select (1) Second and rifles.	Addition of the second	rinum rinum striikt (striikt) striikt (striikt) striikt strii striikt striikt striikt striikt striikt striikt
Imperiance (a)         Got (a)	DOD [3]              PECOVER	CURRENT V         Construction           Construction         Construction           Construction         FLOOD PLAT           FLOOD PLAT         FLOOD PLAT           Construction	A BAAK (0' 7 pm ta IN QUALITY IN QUALITY Do [2] Do	According of the second	rinum rinum striikt (striikt) striikt (striikt) striikt strii striikt striikt striikt striikt striikt striikt
Modervare (a)         Got           Low (a)         PrA           Nonle (1)         PrA           Comments         Pravise RPOSION A           A)         BANK EROSION A           EROSION         Properson           PMODERATE (a)         Properson           Comments         S)         POOL / GLIDE AAVC           MAXIMUM DEPTION         Properson           Comments         Properson           DAVE (COUL)         Properson           PADERATE (a)         Properson	DOD [5]	EEE [4]	A BANK (Cr 2 per to YI BANK (Cr 2 per to NI QUALITY	Addition of the second of the	Pool / Contact
□ coertiane (a)         □ coertiane (a)           □ cow (a)         □ range           ■ constraint         □ range           ■ constraint         □ range           □ comments         □ range           ■ constraint         □ range           □ comments         □ range           □ range         □ range <td>DOD [5]              <b>PECOVER</b> <b>REGUTE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACUPE</b> <b>ACCUPE</b> <b>ACUPE</b> <b>ACUPE</b></td> <td>CURRENT V         Construction           Construction         Construction           Construction         FLOOD PLAT           FLOOD PLAT         FLOOD PLAT           Construction         FLOOD PLAT           Construction</td> <td>Ar BAAK (Cr 2) and the IN QUALITY Do (2) DO (2) D</td> <td>Addi rick &amp; amultiperi ) UREAN ON INCOMENT UREAN OR INCOMENT INFORMATION ON INCOMENT INFORMATION INFORM</td> <td>Annung Annung</td>	DOD [5] <b>PECOVER</b> <b>REGUTE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACUPE</b> <b>ACCUPE</b> <b>ACUPE</b> <b>ACUPE</b>	CURRENT V         Construction           Construction         Construction           Construction         FLOOD PLAT           FLOOD PLAT         FLOOD PLAT           Construction	Ar BAAK (Cr 2) and the IN QUALITY Do (2) DO (2) D	Addi rick & amultiperi ) UREAN ON INCOMENT UREAN OR INCOMENT INFORMATION ON INCOMENT INFORMATION INFORM	Annung Annung
□ coertaine (a)         □ coertaine (a)           □ cow (a)         □ fr A           ■ constant         □ fr A           B constant         □ fr A           □ comments         □ constant           ■ constant         □ constant           □ constant	DOD [5] <b>PECOVER</b> <b>REGUTE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACUPE</b> <b>ACCUPE</b> <b>ACUPE</b> <b>ACUPE</b>	EED (4)         Choose           MIND (3)         LOW           SHN (3)         LOW           FLOOD PLAI           Constraints, swamp (3)	Ar BAAK (Cr 2) and the IN QUALITY Do (2) DO (2) D	Addition of the second of the	Annual Strain Control Control Control Strain Strain Control Strain
Image: Application of the second se	JOD [5]     TECOVER       IR[3]     ARCOVER       JARCOVER     ARCOVER       NOR (1)     ARCOVER       ARDARIAN ZONE     ARCOVER       ARDARIAN ZONE     Image and a straight and straight and a straight and a straigh	CUPRENT V     Construction     Cons	Arita Series Construction of the series of t	Addi ch. & arrouger) ) CONSERVATION 7 URBAN ON INGUE JURBAN OF INGUE JURBAN ON INGUE JURBAN OF INGUE JURBAN OF INGUE Recreation P Primary C Primary C Mon Mon M Secondary J Secondary J Mon M Secondary J Secondary J Mon M Secondary J M Secondary J Secondary	Annual Control of Cont
□ coertaine (a)         □ coertaine (a)           □ cow (a)         □ fr A           ■ constant         □ fr A           B constant         □ fr A           □ comments         □ constant           ■ constant         □ constant           □ constant	DOD [5] <b>PECOVER</b> <b>REGUTE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACCUPE</b> <b>ACUPE</b> <b>ACCUPE</b> <b>ACUPE</b> <b>ACUPE</b>	CURRENT V Solution of the second call of the secon	Ari BANK (Gr 2 per to IN GUALITY IN GUALITY IN GUALITY IN GUALITY IN CROP (G) BELOCITY Val apply BELOCITY Val apply BELOCITY Support a population support a population support a population support a population (1) IN TERMITENT [2] BOOKE (1) Support a population (1) IN TERMITENT [2] BOOKE (1) Support a population (1) IN TERMITENT [2] BOOKE (1) Support a population (1) IN TERMITENT [2] Support (2) I	Addition (Internet Participation)	Annual Strain Control Control Control Strain Strain Control Strain

OhioEPA	Qualitative and Use A	e Habitat Evalua Issessment Fie	tion Index	QHEI Score: 51
Stream & Location: 6	THE OWNER AND ADDRESS OF TAXABLE PARTY.	123/11-2	AM:	
200 mil2		Scorera Full Name	& Attiliation: Phi	lip Rounes Aliem
River Code:	STORET #:	Lat/Lon	1 <u>;</u> /	8_, tocation
BEST TYPES POO BLDR /SLAB6 [10] BOULDER [9] COBBLE [8] GRAVEL [7]	OTHER TY           Image: Display state s	PES POOL RIFFLE L IS [3]	ORIGIN JMESTONE [1] TILLS [1] VETLANDS [0]	DUALITY HEAVY (-2) HEAVY (-2) HEAVY (-2) CHORMAL [0] HEAVY (-2) CHORMAL [0] HORMAL [0] NORMAL [0] NORMAL [0]
2] INSTREAM COVER damp, 3 Hohest quality in In damping that is stable, we demonstrate the stable, we demonstrate the stable, we demonstrate the stable we and the stable of the stable we are stable of the stabl	I developed rocked in dree I POOL TATION [1] BOOT	> 70cm [2] OXBO WADS [1] ( AQU/	deep of last vale, large delayed, hectonal pool bwS, BACKWATERS TIC MACROPHYTES I S OR WOODY DEBRIS	CATENSIVE >75% [11]     OMODERATE 25-75% [7]     G*SPARSE 5-28% [3]
HIGH [4]         EXC           MODERATE [3]         GOC           LOW [2]         FAIF           NONE [1]         POC           Comments         Comments	LOPMENT CHANN ELLENT [7] DINONE [6] DD [6] CRECOVE A [3] CRECOVE DR [1] RECENT	NELIZATION RED (4) RED (4) CON NO RECOVERY (1) CON NO RECOVERY (1)	STABILITY 1 HIGH [3] 3'MODERATE [2] 3'LOW [1]	Channel Maximum 20
C NONE /LITTLE [3] [ MODERATE [2] [ C HEAVY / SEVERE [1] [	RIPARIAN WIDT) WIDE > 50m [4] MODERATE 10-50m [ PNARROW 8-10m [2]	FLOOD FOREST, SWA	PLAIN QUALITY MP (3) D FIELD (3) PARK, NEW FIELD (1) UNE (1)	Constant & A avenant     Constant A avenant     Constant A avenant     Unean on INDUSTRIAL [0]     Unean on INDUSTRIAL [0]     Manina / Construction (0)     Construction (0
70.7-<1m [4]	RIFFLE / FUN QUALT CHANNEL WIDT Check ONE (OP 26 ave POOL WIDTH > RIFFLE WI POOL WIDTH > RIFFLE WI POOL WIDTH & RIFFLE WI	H         CUHHE           rage)         Check           DTH (2)         TORRENTIAL           DTH (2)         VERY FAST (1)           DTH (0)         LAST (1)           DTM (0)         LAST (1)	NT VELOCITY ALL bot spoly (-1) SLOW (1) 1) ORTERSTITAL ONTERMITTER (1) EDDLES (1) RECOVER (1) RECOVER (1)	
A STORE AND A STORE STORE AND A STORE AND	RUN DEPTH MAXIMUM > 50cm [2] [ MAXIMUM < 50cm [1] [	RIFFLE / RUN SUB	STRATE RIFFLE Boulder) (2) Top Gravel) [1]	Deviation DNO RIFFLE (metric / RUN EMBEDDEDNESS NONE [2] DLOW [1] GMOOFRATE [0] EXTENSIVE [1] EXTENSIVE [1] BLOW FOR ALL (1) BLOW FOR ALL (1)
Comments				La contractor Alexandria

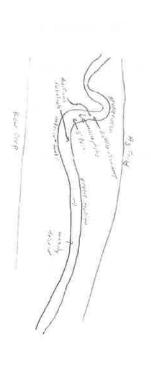
EPA 4520



Stream 44 - Fair Warmwater

METHOD STAGE	14 6 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
	Bauge 15				
OTHER DOP					
DISTANCE DAY					
	BJAESTHETIC	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA	CIICHE SUITHE & COMMENT	EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME	F] MEASUREMENTS
meters SECCHI DEPTH	OIL SHEEN	MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED		BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION / SUBFACE	∑ baniduli width baniduli ⊈ depth
CANOPY cm	I TRASH / UTTER	RELOCATED / CUTOFFS		FALSE BANK / MANURE / LAGOON WASH H <sub>2</sub> 0 / TILE / H <sub>2</sub> 0 TABLE	W/D ratio bankfull max. depth
□ 30%-<55%	CSO#/8SO#/OUTFALLS	ISLANDS / SCOURED		NATURAL / WETLAND / STAGNANT	entrench, ratio
1 10 Une CI DEC	ION AREA DEPTH	IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE		ATMOSPHERE / DATA PAUCITY	Le Tree:

D BOAT		1242 5			
DIST,ANCE	LOW DRY				
molers	CLARITY 2011 - 34 mpile (2011 - 24 20 - 40 cm 20 - 70 cm/ CTB 3 - 70 cm/ CTB	BJ AESTHETIC NUISANCE ALGAE INVASIVE MACROPHITES EXCESS TURBIDITY DISCOLORATION ONL SHEEN	DJ MAINTENANCE PUBLIC, PRINATE / BOTH / NA ACTIVE / HSTORIC / BOTH / NA YOUNG-SUCCESSION-OL SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED	Circle some & COMMENT	EJ /SSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / INFRAGMME CONTAMMATED / LANDFLL BAR9-CONSTRUCTION-SEDMENT LOGGING / IRFIGATION / COULING LANK / EPOSION / SUFFACE
C:ANOPY		TRASH / LITTER     NUISANCE ODOR     SUUDGE DEPOSITS     CSO4/3SO6/0UTFALLS     COM	MOVING-BEDI-CATOFTS ARMOURED/SLUMPS (SLANDS/SCOURED)		FALSE DANK / MANUHE / LAGOON WASH H-0 / TILE / H-0 TABLE ACID / MINE / QUARRY / FLOW MATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME



		SITE NUMBER	HH-SICOUL	RIVER BAS	SIN	DRAJ	NAGE AREA (mi²)	_
IGTH O	FSTR	EAM REACH (R)	LAT.	LON	G RIVE	R CODE	RIVER MILE	
Е <u>\$/4</u>	23/16	BCORER P3R	CON	"Field Eva	luation Manual for C	hio's PHWH	Streams" for Instru	ction
					COVERED PRECO		RECENT OR NO RECO	VERY
REAM			DATURAL CHIM					
				_			in the second second second second	
8	UBSTR	ATE (Estimate percent of e 40). Add tolal number of sign	every type of su litcant substrate	Ibstrate pres	ent, Chack ONLY <u>two</u> ρ (Μεκ of 8). Final matrics	core is sum of	Dono Brite a	H) Me
YPE			PERCENT	TYPE	SILT 13 pt7		PERCENT	Po
18	BOU	R SLABS [16 pls] LDER (>256 mm) [16 pts]		σö	LEAF PACKWOODY		1 5_	Sub
	BEO	ROCK [18 pl]		00	FINE DETRITUS [3 p CLAY or HARDPAN			Ma
		BLE (85-256 mm) [12 pts]		80	MUCK [0 pts]	o pu		
Ж		0 (<2 mm) [6 plu]	75	ōō	ARTIFICIAL [3 pls]			Ľ
		tal of Percentages of					(B)	
B	ick She	ps Boulder, Cobble, Bedrock	<u> </u>	9	TO TAL NUNBER			1000
		MOST PREDOMINATE SU						Pop
	terim	m Pool Depth (Measure th	e maximum po	of depth with	in the 61 meter (200 fg slogs) (Check ONLY of	eveluation centric box)	is at the sine of	Ma
1 .	30 cen	m Pool Depth (Aleasure to on, Avoid plunge pools from timeters (20 pts) 30 am (30 pts)	idea currente la	Q	> 5 cm - 10 cm (15 p	[s]		
		30 um (30 pts) 2.5 cm (25 pts)		8	< 5 cm [5 pix] NO WATER OR NO	THT CHANNEL	(0 pts)	12
100	10 - 2	2/2 CH [22 11/3]						
		that a second			MAXWOM PC		101 5	
	OMM				MAXIMUM PC	OL DEPTH (C	wollprister al:	-
-	ANK	ULL WIOTH (Massured as	the average of	3-6 measure	meats) (Check	ONLY one b	enilpretera):	W.
] ;	40me	ULL WIOTH (Measured as lers (> 13) [30 pts] - 4.0 m (> 917' - 13') [25 pts]		3-5 measure		ONLY one b	enipretera:	W.
] ;	40me	ULL WIOTH (Massured as lors (> 13') [30 pte]		3-5 meatre []	ments) (Check > 1.0 m = 1.5 m ≥ 3 ≤ 1.0 m (≈ 3° 3°)[5 p	OOL DEPTH ( ONLY one b 3 4 87 [15 pi 14]		V.
	40me 30m 16m	ULL WIOTH (Measured as lers (> 13) [30 pts] - 4.0 m (> 917' - 13') [25 pts]		3-6 meatur 0 5	meats) (Check	OOL DEPTH ( ONLY one b 3 4 87 [15 pi 14]		W.
	40me 30m 16m	ULL WIOTH (Measured as lers(=) 13) [30 pte] - 4.0 m (> 9'7' - 13) [25 pte] - 3.0 m (> 4'8' - 9'7') [20 pte	1		(Chec) > 1.0 m = 1.5 m (> 3 < 1.0 m (= 3*3*) [5 p AVERAGE B/	OL DEPTH (C ONLY one b 3"-4"8") [15 pi 4"4] ANKFULL WID d	Fl . C.S	Ba
	40me 30m 16m	TULL WIDTH (Massured as lers (> 13) (30 pts) - 4 0 m (> 9 7' - 13) (25 pts) - 3 0 m (> 4'8' - 9' 7') (20 pts ENT8 RIPARIAN ZONE AND FLO	This ODPLAIN QUA	information UTY \$48	ments) (Checi > 1.0 m = 1.5 m i > 3 > 5 1.0 m (± 3' 3') [5 p 	OL DEPTH (C ONLY one b 3"-4"8") [15 pi 4"4] ANKFULL WID d	Fl . C.S	W.
	40mm 30m 16m	FULL WIOTH (Measured as ters (> 13) (30 pts)           - 4 0 m (> 37 '- 13) (25 pts)           - 3 0 m (> 4'6' - 9'7') (20 pts)           ENT8	This ODPLAIN QUA	information UTY ON Most Pred	ments) (Chec) > 1.0 m - 1.5 m (> 3' > 1.0 m (s' 3') [5 p AVERAGE B/ must also be complete IOTE: River Left (L) and IT/ company per flamb)	OL DEPTH (C ONLY one b 3" 4" 9") [15 pi 1" ANKFULL WID d Right (R) as lo L R	erifi supplements: available a	W.
	40me 30m 16m	TULL WIDTH (Massured as lers (> 13) (30 pts) - 4 0 m (> 9 7' - 13) (25 pts) - 3 0 m (> 4'8' - 9' 7') (20 pts ENT8 RIPARIAN ZONE AND FLO		information UTY ON (Mat Pred Matam For	AVERAGE B/ must also be complete MUST and the solution of the solution AVERAGE B/ must also be complete NOTE: River Left (L) and IT/ consumption for the solution at, webcard	COL DEPTH (C COALY one b 3" 4" 8") [15 pr 4" 8") [15 pr 4" ANKFULL WID d Right (R) as Ic L R D D	conservation Tillage	V.
	40mm 30m 16m COMM	FULL WIDTH (Massured as less 6 13) (20 pln)           4.0 m (> 97 - 13) (25 pul)           3.0 m (> 4'8' - 9'7') [20 ple           ENT8           RIPARIAN ZONE AND FLO RIPARIAN ZONE AND FLO (Per Bonk)	This ODPLAIN QUA	information UTY ON (Mat Pred Matam For	ments) (Chec) > 1.0 m - 1.5 m (> 3' > 1.0 m (s' 3') [5 p AVERAGE B/ must also be complete IOTE: River Left (L) and IT/ company per flamb)	OL DEPTH (C ONLY one b 3" 4" 9") [15 pi 1" ANKFULL WID d Right (R) as lo L R	FI. Conservation Trisage Urban or Industrial	V.
	40mm 30m 16m COMM	FULL WIDTH (Massured as large / 37) (30 plat)           iars (> 13) (30 plat)           4.0 m (> 57 7' - 13) (23 plat)           2.0 m (> 47 6' - 97' ) [20 plat)           ENT8		information UTY ON PLAN QUEL (Most Pred Matare For Investment F	AVERAGE B/ must also be complete MUST and the solution of the solution AVERAGE B/ must also be complete NOTE: River Left (L) and IT/ consumption for the solution at, webcard	ANKFULL WIE	Antifreter a: antifreter a: antifreter a: Ff. (2.5) TH (mg/drs) Conservation Tillage Urben or Industrial Opan Pasture, Row Crop	
	L R	ULL WIDTH (Measured as lists (> 13) (30 pte) 4 cm (> 37 * 13) (25 pte) 3 0 m (> 4 * 6 * - 9 * 7) (20 pte ENTS		information UTY ON PLAN QUEL (Most Pred Matare For Investment F	AVERAGE B/ AVERAGE B/ Music also be complete (OTE: Fiver Left (L) and M M M M M M M M M M M M M	ANC DEPTH ( ANKFULL VID ANKFULL WID ANKFULL WID C C C C C C C C C C C C C	entificiera): 3 entificiera): 3 entifi	
	L R	ULL WIGTH (Measured as lers (-13) (20 pt) 4 dm (-247 - 13) (22 pt) 3 om (-48 - 97) (20 pt) ENTS ENTS ENTS ENTS ENTS ENTS ENTS ENTS		Information UTY AN AN CRIAL (Mature For Immature 1 Fired Residentia Fenced Pa	Check	ANK PULL WID	Alternational and a second sec	
		ULL WIGTH (Measured at larse 13) 00 ptgl           ULL WIGTH (Measured at larse 13) 00 ptgl           Lam (p gr - 13) [22 ptgl           2.0 m (p 4'S - 0'') [20 ptg           ENTS           RIPARIAN ZONE AND FLO RIPARIAN WIGTH (per dant) Wide 210m Noder#CS -10m None           None           Commet Anno e5m None           FLOW REGIME (AT Time of From Regime (A Time of Smin)		information LTTY GN ANGGIN (Most Pred Matare For Immature I Find Residentia Fenced Pa Check ONLY	Check	NUL DEPTH (c ANKLY one b 3"-4"8) (15 p) 4 ANKFULL WID 4 Right (R) as IC L 2 2 2 2 2 2 2 2 2 2 2 2 2	and the second s	
		ULL WIGTH (Measured average average)           Ierre P 13 (20 pH)           1 cm (2 m² t - 13) (22 pH)           2 m (2 m² t - 13) (22 pH)           BITB           RIPARIAN ZONE AND FLO           RIPARIAN WIGTH           (Per Bank)           Wide s - 10m           Narrow < 5m		information LTTY GN ANGGIN (Most Pred Matare For Immature I Find Residentia Fenced Pa Check ONLY	Check	ANK PULL WID	and the second s	
		ULL WIGTH (Meanured at lars (-13) (20 pt/)           USA (m) (-27 - 13) (22 pt/)           -3.0 m (-27 - 13) (22 pt/)           -3.0 m (-27 - 13) (22 pt/)           ENTS           RIPARIAN 20NE AND FLO RIPARIAN MIGTH (Per Bent)           Wide - 10m Note           Note           COMMENT:           COMMENT:           COMMENT:           Subscription from with isolelec.           Comment:           Comment:	) ODPLAIN QUA COMPLAIN QUA COMP	Information UTY 4N PLAN QUISI (Mature For International Fenced Pa Check OALY al)	Check     C	NL DEPTH (c A O/L/Y one b 3* 4*07 (15 p) 4 ANKPULL WIC 4 C C C C C C C C C C C C C	An and a second	
		ULL WIGTH (Meanured at learne -13) (30 pkg)           Lam (c S 7 - 13) [22 pkg)           3.0 m (c 4 f 5 - 0 7 ) [20 pkg           BARALAN WIGTH           Person (c 4 f 5 - 0 7 ) [20 pkg           RIPARIAN ZONE AND FLO           RIPARIAN WIGTH           Person (c 4 f 5 - 0 7 ) [20 pkg           Note (c 5 - 10 m)           Moderate 5 - 10 m           Note (c 5 m)           Note (c 5 m)           Note (c 7 m)	) ODPLAIN QUA COMPLAIN QUA COMP	Information UTY 4N PLAN QUISI (Mature For International Fenced Pa Check OALY al)	Check     C	NL DEPTH (c A O/L/Y one b 3* 4*07 (15 p) 4 ANKPULL WIC 4 C C C C C C C C C C C C C	and the second s	

USUL Name	120.2 A.A. 2 A.A
C WWH Name	Distance from Evaluated Stimmer
C EWH Name	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, IN	CLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quedrongie Name	
Caunty	Taxing:p/Cirg
MISCELLANEOUS	
Base Flow Conditions? (YAN) Date of fast (	precipitation Quantity
Fhotograph Information	
Elevisted Turbidity? (Y/N) Canopy (%	open) <u>90</u>
	Note lab sample no or ki and atlach resulls) Lab Numbri
	xygen (mg/) pH (SU.) Conductivity (µmhos/am)
is the sampling reach representative of the stream (Y	IN) If not please explain
And can community the set of a studies in a set of a	
second and commentationescription of bounded turbaters	
BIOTIC EVALUATION	
Performed? (Y/N) N (If Yes, Record all das	erzulions. Vaucher caluations optional NOTE: attraucher samples must be labeled with P
Performed? (Y/N) (/ Yes. Record all cost ID number Include at	spropriate field data sheets from the Primary Headwater Habilat Assessment Manual)
Performed? (Y/N)N (I Yes, Record all cess ID number Include ac Fish Observed? (Y/N) Voucher? (Y/N)	spropriate field data sheets from the Printery Headwater Habitat Assessment Manual) Splamanders Observed? (Y/4) Voucher? (Y/N)
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Performed? (Y/N)         N         (I) Yes. Record all: drs: ID number: Include an           Fish Observed? (Y/N)         Voucher?         Voucher?           Frogs or Taupoles Observed? (Y/N)         Voucher?         Voucher?	spropriate field data sheets from the Printery Headwater Habitat Assessment Manual) Splamanders Observed? (Y/4) Voucher? (Y/N)
Performed? (V/R) 0! Yee, Record at the ID number : Include as Findos and Storwed? (V/N) Voucher? [V/N) Voucher? Centrales Regulting Birlogy	spropriate field data sheets from the Printery Headwater Habitat Assessment Manual) Splamanders Observed? (Y/4) Voucher? (Y/N)
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Petiforme? (V/N) cit Yee, Record at one D number include as D number include as Fish Observed? (V/N) Voucher? Comments Regaring Diringoy DRAWING AND NARRATIVE D Include Important Landmarks and other feature FLOW	Service and the service of the servi

Stream 46 - Fair Warmwater

Qualitative Habitat Evaluation Index and Use Assessment Field Sheet QHEI Score: 50.5 Stream 46 - Fair Warmwater **ChicEPA** \_\_\_\_\_Date: \_\_\_\_3/ 23/ 06 
 Streeth & Location:
 GH. Harrison
 GH. 3/2 / 2/3 / 96

 Scoreta Full Name & Attillation:
 Philip Ensure
 Artent

 River Code:
 STORET #:
 Latt Long:
 R.
 Date:
 3/ 2/3 / 96

 River Code:
 STORET #:
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 Date:
 3/ 2/3 / 96

 I SUBSTRATE Code work the scores
 Bits:
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 Other work for present

 Boulcost:
 Dot Handbak (s)
 Date:
 3/ 2/3 / 96
 Date:
 3/ 2/3 / 96

 Boulcost:
 < Stream & Location: GH Harrison QH-3/244-3 RM: 2) INSTREAM COVER Indicate pleasance 0 to 3: 0. Absent: 1-Very and anounts of Bindre control of regime?
2) INSTREAM COVER Indicate pleasance 0 to 3: 0. Absent: 1-Very and public or in senal amounts of Planet
Cover C Cover 5 Comments 

 3) CHANNEL MORPHOLOGY Check ONE in each category (02 A reverage)

 SINUOSITY
 DEVELOPMENT

 CHANNELIZATION
 STABILITY

 Pindh (1)
 EXCELLENT (7)

 NONE (5)
 HIGH (3)

 MODERATE (5)
 POOR (1)

 NONE (1)
 TAIR (3)

 NONE (1)
 POOR (1)

 NONE (1)
 POOR (1)

 Comprents

 ☐ HIGH [3]
 ☐ MODERATE [2]
 ☐ LOW [1] Channel Maximuch 20 4) BANK EROSION AND RIRARIAN ZONE Chass ONE is such category to EACH BANK (C: 2 per bank & arreage) The definition generation RIPARIAN WIDTH RIPARIAN WIDTH RODERATE (3) MODERATE (3) PARIAN WIDTH RODERATE (3) PARIAN WIDTH RIPARIAN WIDTH RIPARIAN WIDTH RIPARIAN WIDTH RODERATE (3) PARIAN WIDTH RIPARIAN STRUC. Land use(1) Ripartan Masimum 10 Comments 
 Comptoense

 5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH
 CHANNEL WIDTH CHANNEL WIDTH
 CURRENT VELOCITY

 Check ONE (0/2 & average)
 Check ONE (0/2 & average)
 Check ALL that endy

 > tim [6]
 POOL WIDTH > RIFFLE WIDTH [2]
 CORRENTAL [-1]
 SLOW (1)

 0.74-rtm [4]
 POOL WIDTH = RIFFLE WIDTH [2]
 CORRENTAL [-1]
 INTERMITTAL [-1]

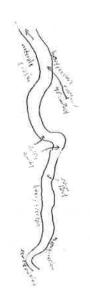
 26-4-02.7m [2]
 2700L WIDTH < RIFFLE WIDTH [0]</td>
 PARS (1)
 INTERMITTENT [-2]

 Check ONE (1)
 2700L WIDTH < RIFFLE WIDTH [0]</td>
 PARS (1)
 INTERMITTENT [-2]
 Recreation Potential Primary Contact Secondary Contact Pool/ Current Maximum 52 Indicate for functional riffles; Best areas must be large enough to support a population INO BIFLE (ne of riffle-oblighte apecies: Cneck OKF (X = 2 & arease). RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUF RUBEDDEDNESS Diest AREAS - toom (1) GMAXIMUM < 50cm (1) GMOD, STABLE (e.g., Large Grave) (1) GMODE/RIF Diest AREAS - toom (1) GMAXIMUM < 50cm (1) GMOD, STABLE (e.g., Large Grave) (1) GMODE/RIF Diest AREAS - toom (1) GMAXIMUM < 50cm (1) GMOD, STABLE (e.g., Large Grave) (1) GMODE/RIF Diest AREAS - toom (1) GMAXIMUM < 50cm (1) GMOD, STABLE (e.g., Fine Grave, Sand) (0) GMODE/RIF Configents ONO RIFFLE (metric=0) 1 Comments 6] GRADIENT ( 30 IVm) VERY LOW - LOW [2-4] DRAINAGE AREA MODERATE (6-10) [ 2.52, mi7] HIGH - VERY HIGH (10-6) %POOL: 1 %GLIDE: 7 Gradien

Shriffle

%RUN: (

EPA 452



SED POOL: 0-100tt2	CANDPY II CM INSANT/LITEN MOV	SECCHIDEPTHO	Ist warmpite bases 2nd INUISANCE ALGAE	CLARITY BJAESTHETIC		HOD STAGE MAD = 2.1"
LODD CONTROL/DRAINAGE	MOVING BEDLOAD STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESIGCATED	SPRAY / SWAG / REMOVED ODIFIED / DIPPED OUT / NA LEVEED / OAE SIDED	PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA	DJ MAINTENANCE		
				Circle some & COMMENT		
AIMOSPHEHE / DAIA PAUCITY	VASH H <sub>2</sub> 0/TLE / H <sub>2</sub> 0/TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME	EAST SE BANK / LENDSON / SURFACE	WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL	EJ ISSUES		
	bankfull max. depth ficodprone x <sup>2</sup> width entrench. ratio Le Tree:	mia: sepuri 2 banktuli witith banktuli 2 dapth W/D ratio	x width	F] MEASUREMENTS		

ADDITIONAL STREAM INFORMATION (This information Next Star In Co

			atrics 1, 2, 3) : 5/	Modified
TE NAMELOCATION Gene Heper	-3/24/16 - 1 RIVER BASIN	DR	RAINAGE AREA (mi <sup>2</sup> )	Class 2
NGTH OF STREAM REACH (P)				
TE 3124/2016 SCORER P312	COMMENTS Z 17 A	comittent strep.	-	
IOTE: Complete All Items On This Form	- Refer to "Field Evaluation	on Manual for Ohlo's PHV	VH Streams" for Instruc	tions
REAM CHANNEL TNONE (NAT	URAL CHANNEL TRECOV	ERED PRECOVERING	RECENT OR NO RECOV	/ERY
ODIFICATIONS:				
SUBSTRATE (Estimate percent of ever (Max of 40) Add total number of signific			of boxes A & B	HHEI
YPE J BLDK SLABS [16 pix]	ERCENT TYPE	[3 pt]		Metric Points
BOULDER (>255 mm) [16 pis]	[][] LEA	(3 pi) F PACKM/OODY DEBRIS [3 p	49] 5	
BEDROCK [16 pl]		DETRITUS [3 pts]		Substrate Max = 40
COBBLE (65-255 mm) [12 pis]		Yor HAROPAN [Upl] X [Upts]		
SAND (<2 mm) [6 pts]		IFICIAL [3 pts]		16
Total of Percentages of	(A)		(B)	A+B
Bidr Slabs, Boulder, Cobble: Begrock ORE OF TWO MOST PREDOMINATE SUBB	JZ-	TOTAL NUMBER OF SUBST	RATE TYPES	
-				
Maximum Pool Depth (Neasure the m main which Avoid plunge pools from room				Pool Depth Max = 30
> 20 centimeters [20 pts] > 225 - 30 cm [30 pts]	>5	cm - 10 cm [15 pts] cm [5 pts]	if a second s	. 8
3 ≥ 10 - 22.5 cm [25 pts]				
a the stand of the bird		WATER OR MOUST CHANNE		30
COMMENTS	;) <u>n</u> g		10	30
COMMENTS		MATER OR MOUST CHANNE MAXIMUM POOL DEPTH	condigitors): 10	
COMMENTS BANK FULL WIDTH (Measured as the >4 Ometers > 13') [30 pts]	average of 3-4 measurements	MATER OR MONT CHANNE MAXIMUM POOL GEPTH (Check ONLY one 0 m - 15m (> 3'3' - 4'8') [15	centingitars): [0]	Barmine Width
COMMENTS BANK FULL WIDTH (Measured as the > 4 Cimeters > 13) (50 pts) > 3.0 m - 4.0 m $\odot$ 77 - 13) (25 pts)	average of 3-4 measurements	MATER OR MOUST CHANNE MAXIMUM POOL GEPTH	box): pis]	Barmfull Width Max=30
COMMENTS           BANK FULL WIDTH (Measured as the > 4 Conders t> 35) [30 pts]           > 3.0m - 4.0m (> 9' 7' - 13) [25 pts]           > 1.5m - 3.0m (> 4' 8' - 3' 7') [20 pts]	average of 3-4 measurements	WATER OF MOUT CHANNE MAXIMUM POOL GEPTH ) [Check ONLY one 0m - 15m > 3'3'- 4'8'] [15 .0m (こ 3'3'] [5 pts]	trendfysters):	Barmine Width
COMMENTS	average of 3-4 measurements	MATER OR MONT CHANNE MAXIMUM POOL GEPTH (Check ONLY one 0 m - 15m (> 3'3' - 4'8') [15	trendfysters):	Barmfull Width Max=30
COMMENTS_ DANK FULL WIDTN (Measured as the > 46 mears > 137 (Bipta) > 3.0 m - 4.0 m e 77 - 137 (Dipta) > 1.5 m - 3.0 m (> 41 er - 97 7) (Dipta) COMMENTS_	average of 3-4 measurements 2 - 1 This information must a	WATER OR MOUST CHANNE MAXIMUM POOL DEPTH( ) [Check ONLY one 0 m - 1 5 m > 3 * - 4 & (15 0 m (2 3 * 3 ) [5 Re] AVERAGE BANKFULL WI No be completed	box): nisj DTH (metfers)	Barmfull Width Max=30
COMMENTS           BANK FULL WIDTH (Measured as the > 4 G meters to 13) [30 pts]           > 3.0 m - 4.0 m (> 9' 7' - 13) [25 pts]           > 1,5 m - 3.0 m (> 4' 8' - 3' 7) [20 pts]	average of 3-4 measurements 2 - 1 This information must a	WATER OF MOUST CHANNE          MAXIM UM POOL DEPTH(          (Check ONLY one           0 m - 1 5 m > 3'3' - 4' 6'1 (15: 0 m (-3 3'3') [5 pte]          AVERAGE BANKFULL WI	box): nisj DTH (metfers)	Barmfull Width Max=30
COMMENTS_ BANK FULL WIDTN (Measured as the > 46 measure > 37) (59 pt) > 5.0m - 4.0m e 77 - 137 (25 pts) > 1.5m - 3.0m e 4.0f - 377 (20 pts) COMMENTS_ RIPARIAN ZONE AND FLOODER <u>RIPARIAN ZONE AND FLOODER</u>	average of 3-4 measurements 2 1 3 2 -	WATER OR MCIUT CHARMS	Eccentrystars; CO	Barmfull Width Max=30
СОММЕНТБ ВАКК /ULL WOTU (Measured as the > 46 measure 30 (100 ptd) > 50 measure 30 (100 ptd) > 15 m - 30 m P 47 - 37 (100 ptd) СОММЕНТБ ПРАНАН ZONE AND FLOODP ПРАНАН ZONE AND FLOODP	This information part in the i	WATER OF MOUST CHARME	Conservation Tifage	Barmfull Width Max=30
Соммента_ = АкиК / ULL / MOTU (Measured as the > 4.6 metror > 301 (Dip As) > 3.0 m - 4.0 m p + 07 - 131 (Dip As) > 1.6 m - 3.0 m p + 07 - 137 (Dip As) COMMENTA 	This information court of the information cour	WATER OF MOUST CHARME	Conservation Tillage Urban or Industrial	Barmfull Width Max=30
COMMENTS_ BANK FULL WIDTH (Measured as the > 46 measured as the > 5.0 m + 60 m + 517 (80 pc) > 5.0 m + 60 m + 90 m + 517 (80 pc) COMMENTS_ RIPARIAN ZONE AND FLOODF RIPARIAN ZONE AND FLOODF RIPARIAN ZONE AND FLOODF UNCERNON VALUE + 10 m Wide + 10 m Wide + 10 m	This information rules a superior of 3-4 measurements a superior of a su	WATER OF MOUST CHARME	Conservation Tifage Urban or Industrial Open Pasture, Row Crop	Barmfull Width Max=30
Соммента_ = АкиК / ULL / MOTU (Measured as the > 4.6 metror > 301 (Dip As) > 3.0 m - 4.0 m p + 07 - 131 (Dip As) > 1.6 m - 3.0 m p + 07 - 137 (Dip As) COMMENT # 	This information court of the information cour	WATER OF MOUST CHARME	Conservation fillege Urban or Industrial Open Pastice, Row	Barmfull Width Max=30
Соммента = Акк 7 ULL WOTU (Measured as the > 4.6 metror vol 30 (Dp /sl) > 1.5 m - 3.0 m р 4 (-7 - 37 ) [20 pe] COMMENTA RIPARIAN ZONE AND FLOODE <u>RIPARIAN WOTH</u> _ R (Per Bank) _ Wederale 5-10 m _ Moderale 5-10 m _ Manar <	This information quart at LAN OUALITY DIROTS FLOODE AIN OUALITY L R (Most Proderinger Malar Forst), W France Forst, W F	WATER OF HOUST CHANNE AAXUMUM POOL DEPTHAN 0 (Check ONLY ONE 0 - 15m p 32 - 24 ft (15 0 m (2 3 3 15 pts) AVERAGE BANKFULL WI No be completed Now Left (L) and Rigot (R) ast Lpcr Bank) [ R Brank or Ott ] ] New Field 7 ft	Conservation Tifage Urban or Industrial Open Pasture, Row Crop	Barmfull Width Max=30
COMMENTS	This information proof	WATER OF MICHT CHANNE	Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Canstruction	Barmfull Width Max=30
COMMENTS_           BANK FULL WIDTH (Measured as the > 4 (mease > 3); (B) (b) > 3.0; m + 4.0; e7 - 13; (2) (b) > 1.5; m - 3.0; (> 4.7; -7; (2) (b) > 1.5; m - 3.0; (> 4.7; -7; (2) (b) COMMENTS_           RIPARIAN ZONE AND FLOODF INPARIAN WIDTH L R ("Pe Bank)           UVICe > 10; WICe > 10; WICe > 10; Manzer < m.	This information proof	WATER OF MOUST CHANNE	Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Canstruction	Barmfull Width Max=30
Соммента_ Рамк 7 ULI VNDT% (Measumd as the > 4.6 metror v30 (Dg Ma) > 5.6 metror v30 (Dg Ma) > 15 m - 3.0 m р 47 - 3.7 (20 pre) COMMENTA_ COMMENTA_ RIPARIAN 200E AND FLOODE RIPARIAN 200E AND	This information quart at LAN OUALTY Short of the FLOOPE AIN OUALTY LAN OUALTY Short of the FLOOPE AIN OUALTY LAN OUALTY Residentiar Forst, We France Forst, We France Forst, We France Forst, We France Forst, We Mathematication of the floorest Mathematication of the floorest Mathemati	WATER OF HOUST CHARME     AnAXWAM POOL SEPTHA     Check ONLY ONE     On ( 2 3 7) [5 yes]     AVERAGE BANKFULL W     Check Only (f) assi     Kobe completed     Check ( ) and ( ( 2 3 7) [5 yes]     AVERAGE BANKFULL W     Check ( ) and ( ( ) assi     Check ( ) and ( ) and ( ) and ( ) and     New Field     The and     Check ( ) and ( ) and     Check (	Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Canstruction	Barmfull Width Max=30
COMMENTS_           PARK 7ULL WOTH (Measured as the > 40 metror to 310 (bpt)]           > 3.0m - 40 m p 97 - 131 (bpt)]           > 1.5m - 3.0m p 47 - 371 (bpt)]           > 1.5m - 3.0m p 47 - 371 (bpt)]           COMMENTS_           RIPARIAN WOTH           RIPARIAN           SHUOS BY flumber of being and	This information runt a LAN OUALTY Department CAN OUALTY Department Multiper Construction Multiper Constructio	WATER OF HOUST CHANNE  AMAXWAM POOL CREPTHY  O (Check ONLY one On - 15m p 25 - 461 (15 On ( 2 3 3) [5 yet)  AVERAGE BANKFULL W  Ko be completed  Ko Be complet	Conservation Tillage Urban or Industrial Coper Padure, Row Crap Wining or Canstruction sools, no Fow (Intermittent) phemerun)	Barmfull Width Max=30
COMMENTS	This information must be a manual of the second sec	WATER OF HOUST CHANNE	Conservation Tifage Urban or Industrial Conservation Tifage Urban or Industrial Open Pesture, Row Crop Mining or Construction	Barmfull Width Max=30

ERMIRQCATION _George Hope - Ma					Class 2
DITE NUMBER (107-3	SITHA- Z RIVER IN	Jaha	DRA	HAGE AREA (IN')	
NGTH OF STREAM REACH (It)	AT LON	G Rivi	ER CODE	RIVER MILE	
TE S/14/2016 SCORER PSR	COMMENTS	ater mittents	tream		
IOTE: Complete All Items On This Form -					
REAM CHANNEL	RAL CHANNEL IR	COVERED REC	OVERING D'	RECENT OR NO RECO	OVERY
ODIFICATIONS:					
SUBSTRATE (Estimate percent of every (Max of 40). Add total number of significant	type of substrate pres	ent Check ONLY two Max of 6) Final metric	score is sum of	bstrate TYPE boxes	HHEI
YPE PER	CENT TYPE			PERCENT	Metric Points
J L J BLOK SLABS [16 pts]		SILT [3 µi] LEAF PACK/WOODY		75	Points
BOULDER (>265 mm) [16 pts]     BEDROCK [16 pt]	— <u>ăă</u>	FINE DETRITUS [3]			Substrate Max = 40
COBBLE (65-256 mm) [12 pts]	00	CLAY & HARDPAN	(Ng 62)		max = 40
GRAVEL (2-64 mm) [9 pls]		MUCK [0 pls]			15
] [] SAND (<2 mm) [0 pts]	00	ARTIFICIAL [3 pls]			
Total of Percentages of	17 IAI			(B) 3	A+8
Bidr Slabs. Boulder, Cobble. Bedrock	IATE TYPES	TOTAL NUMBE	R OF SUBSTRA	ATE TYPES:	
	and an and a start of		C CELLER LAGO	th at the firms of	Pool Dapth
Hastman Pool Depth difference the man evaluation. Avail planor pools from rood o	chimin poor depth who	iver) ICheck OALY	are limit	40.40.000 M/26.01	Max = 30
> 30 centimeture [20 pts]		> 5 Em + 10 cm [15]	pts]		
] > 22.5 - 30 cm (30 pts) 7 > 10 - 22.5 cm (25 pts)	H	< 5 cm (5 pm) NO WATER OR M	IST CHANNEL	[0 pta]	25
			OOL DE#TH (D	Mr. S	and the second s
COMMENTS		MAXINUM P	JOL DEFINITIO	entrappeers.	
BANK FULL WIDTH (Measured as the at			k ONLY one bo		Bankfull
	verage of 3-4 measurer		37 - 418's [15 of		
> 4 0 meters (> 13') [30 pts] 3.0 m + 4.0 m (> 6' 7" - 13') [25 pts]	verage of 3-4 measurer	Hents) (Circc > 1.0 m - 1.5 m i≥ 3' < 1.0 m (≤ 3' 3") [5 p		S]	Mach20
>4 0 meters (> 13) [30 pts] 3.0 m + 0 m (> 6' 7" - 13') [25 pts]	verage of 3-4 measurer [] []	/ > 1.0 m - 1.5 m i≥ 3'			
> 4 0 meters (> 13) [30 pts] 3.0 m + 0 m (> 6' 7" - 13') [25 pts]	vorage of 3-4 measurer D S	> 1,0 m - 1.5 m i> 3 ≺ 1.0 m (⊴ 3'37)[5 p		FH 21	
] >40 moters (> 13) [30 pte] ] 3.0 m + 0 m (> 6' 7' - 13') [25 pte] ] 1.5 m + 10 m (> 4' 6' - 9' 7') [20 pts]		>>1.0 m - 1.5 m i> 3 < 1.0 m (⊴ 3 3) [5 p AVERAGE B.	ANKFULL VIIO	FH 21	
>> 4 0 mders (> 37 ; 100 pte] > 20 m + 4 0 m (> 9 77 - 13) [25 pte] > 5 m + 3 0 m (> 4 0 * - 9 77) [20 pts] COMM EN 15	This Information	> 1.0 m - 1.5 m (≥ 3' < 1.0 m (≤ 3'3') [5 p AVERAGE B.	als) ANKFULL VIIO' rd	TH (melens)	
> 4 (0 mders) (- 13) [20 pte] + 3 (m + 60 (- 97 - 13) [25 pte] + 1 (m + 10m (- 4 (2 - 97 -) [20 pts] COMMENTS	This Information g AIN QUALITY 2NO FLOODPLAIN QUALIT	> 10 m - 1.5 m  > 3' < 1.0 m (± 3 37 [5 p AVERAGE B AVERAGE B AVERAGE B TEL River Left (L) and M	ankfull Vilo rd Right (F) as loc	TH (melens)	
	This Information p AIN QUALITY SYN FLOODPLAN QUALI L R (Most Pred	> 10 m - 1.5 m i> 3' < 1.0 m (≤ 3 3') [5 p AVERAGE B AVERAGE B DIE] River Loft (L) and [Y] minant per Bank)	ANKFULL VIO rd Right (R) as loo	TH (melors) 2.1	
	This Information ( AIN QUALITY 2NC FLOODPLAN QUALIT L R (Most Prode	> 10 m - 1.5 m i> 3' < 1.0 m (≤ 3 3') [5 p AVERAGE B AVERAGE B DIE] River Loft (L) and [Y] minant per Bank)	ANKFULL VIO Right (R) as loo	TH (meters) 2.1	
>4 Cmmders (> 17) [20 pte]     >1 Cmmders (> 17) [20 pte]     >1 Cm (> 4 (0 - 9 7 ) [20 pte]     COMMENTS     [PARIAN 20NE AND FLOODPL     [RIPARIAN 20NE AND FLOODPL     [R (Cer Bank)     [Vide>10m     [Mide>10m     [Mide>10m	This Information g AIN QUALITY ANO FLOODPLAIN QUALI L R (Mosi Prede Mature Ford Mature Ford Field	> 10 m + 15 m  > 3' < 1.0 m (± 3' 3') [5 p AVERAGE B AVERAGE B DTE River Left (L) and DTE River Left (L) and minani per Bank) st, Welland meg. Shrub or Old	ankFULL Vio d Right (F) as foo	TH (mel/rs) 2.1 Diving downstreamstr	
>4 Omders (> 13) [20] pte]     >1 Cm = 400 (> 07 - 13) [25 pte]     +1 Cm = 100 (> 4 °C - 9 °T ) [20] pts]     COMMENTS     COMMENTS     COMMENTS     RIPARIAN ZONE AND FLOODPL <u>RIPARIAN WOTH     L R (Cer Bank)     Wide &gt;10m     Wide &gt;10m     Wide &gt;10m     Neurox &lt;5m </u>	This information g AIN QUALITY ANO FLOODPLAIN QUALI L R (Most Predo I Mature Fore I Immature Fore I Immature Fore	> 10 m + 15 m > 3 < 1.0 m (± 3 3) 5 r AVERAGE B. AVERAGE B. DE River Left (L) and DY minant per Bank) st, Welland ares, Shrub or Old Pan, Hene Firld	ANKFULL WIO'	TH (meters) 2.1	
	This Information g AIN QUALITY ANO FLOODPLAIN QUALI L R (Mosi Prede Mature Ford Mature Ford Field	> 10 m + 15 m > 3 < 1.0 m (± 3 3) 5 r AVERAGE B. AVERAGE B. DE River Left (L) and DY minant per Bank) st, Welland ares, Shrub or Old Pan, Hene Firld	ankFULL Vio d Right (F) as foo	TH (melers) 2.1 aking downstreamst Conservation Trilage Urban or industrial Open Pasture, Row	Murs36
> 4 Ometes (> 15) [20 pte]     > 20 en - 400 (> 07 - 13) [25 pte]     > 10 en - 10 en (> 7 - 13) [25 pte]     > 10 en - 10 en (> 4' 0' - 9' 7) [20 pts]     COMM EN T5     [PARIAN XONE AND FLOODPL     NIPARIAN XONE AND FLOODPL     NIPARIAN XONE AND FLOODPL     Niparan XONE AND FLOODPL     Niparan XONE     N	This Information p AIN QUALITY - 2M FLOODPLAN QUALITY U.R. (Mol Predo U. Mature Fore Mature Fore Field I. Restance Field Mat	> 10m - 15m e 3 < 10m (± 3 37) 5 p AVERAGE B AVERAGE D DTE River Left (L) and DTE River	ANKFULL WIO'	FF 2.1 TH (melers) 2.1 psing downstreamstr Conservation Titlage Urban or Industifal Open Pasture, Row Crop	Murs36
>4 Comercs (- 15) [20 pte]     >2 Comercs (- 15) [25 pte]     + 1 Com (- 27 - 13) [25 pte]     + 1 Com (- 24 [27 - 97 7) [20 pte]     COMM EN TS      COMM EN TS      RIPARIAN ZONE AND FLOCOPL      RIPARIANWOTH      R (Per Bank)      Wide >1 Com     Noderste 5 -1 Com	This Information p AIN QUALITY - 2M FLOODPLAN QUALITY U.R. (Mol Predo U. Mature Fore Mature Fore Field I. Restance Field Mat	> (gm - 15m cs <sup>2</sup> < 1.0m (: 3 37) 5 r AVERAGE B AVERAGE B AVERAGE B Intel also be complete DTE Rever Left (1 and Trainant per Bank) st, Welland Trainant per Bank) st, Welland St, We	ANKFULL WID rd Right (F) as icc	FF 2.1 TH (melers) 2.1 psing downstreamstr Conservation Titlage Urban or Industifal Open Pasture, Row Crop	Marcolo,
> > 4 Cimeters (> 157) [20] [41]     > 2 Cimeters (> 157) [25] [42]     > 2 Cimeters (> 167 (> 17) [25] [42]     COMMENTS     COMMENTS     COMMENTS     COMMENTS     COMMENTS     COMMENTS     COMMENTS     COMMENTS     FLOW REGME (AT TIme of Event     Stream Flowing     Subarnee from with isolated pools	This information p All quality and FLOODFLAN QUALITY AND Most Press Manuer F Frendes Part Frendes Part abony (Check ONLY of	> (gm - 15 m or 3 < 1.0 m (: 3 37) (5 m AVERAGE B AVERAGE B AVE	ANKFULL WID rd Right (F) as icc	TH (melfrs) 2.11 TH (melfrs) 2.11 Duing counstreams Conservation Titlege Uthan or industal Uthan or industal Maning or Canstruction Maning or Canstruction	Marcolo,
P 4 Ometers (> 157) [20 pte]     P 4 Ometers (> 157) [25 pte]     P 4 Ometers (> 177) [25 pte]     P 4 Ometers (> 177) [25 pte]     P 4 Ometers (> 177) [25 pte]     COMMENTS     COMMENTS     COMMENTS     COMMENTS     FLOOR BOOK	This information p AIN QUALITY 2HN ELCODELAN CLULLT I. R (Most Pred Mature For Field I. Residence Field Residence Risk Risk (Check OALY o (nierdblie)	AVERAGE B AVERAGE B AVERAG	ANK FULL VIIO Right (R) as loc U R U R U R U R U R U R U R U R U R U R	TH (melfrs) 2.11 TH (melfrs) 2.11 Duing counstreams Conservation Titlege Uthan or industal Uthan or industal Maning or Canstruction Maning or Canstruction	Marcolo,
	This Information grant of the second	AVERAGE B AVERAGE B AVERAG	ANK FULL VIIO Right (R) as loc U R U R U R U R U R U R U R U R U R U R	TH (melfrs) 2.11 TH (melfrs) 2.11 Duing counstreams Conservation Titlege Uthan or industal Uthan or industal Maning or Canstruction Maning or Canstruction	Marcolo,
	This information p AIN QUALITY 2HN ELCODELAN CLULLT I. R (Most Pred Mature For Field I. Residence Field Residence Risk Risk (Check OALY o (nierdblie)	> 1.0m - 1.5m or 3 < 1.0m (1 ≤ 3 37)5 r AVERAGE B TOTE River Lot R(1 and DTE River Lot R(1 and DTE River Lot R(1 and Exercised R(1 and R)) s, Welland res, Smu or Old Fan, New Field Ant Dry shares (1) [Click OALY one	ANK FULL VIIO Right (R) as loc U R U R U R U R U R U R U R U R U R U R	TH (melfres) 2.1. axing downstreamstr Conservation Telege Urban or Industfiel Open Posture, Row Corp Mining or Canstruction Mining or Canstruction vis. no Bow (intermittent	Marcolo,
>> 4 Conders (> 13) (20 prol)     >> 2 Conders (> 27) (20 prol)     >> 2 Conders (> 27 - 13) (25 prol)     >> 1 Conders (> 410 - 977) (20 prol)     COMMENTS     COMMENTS     REPARAN XONE AND FLOODFL     REPARAN WOTH     R (Prol Box)     Moderste S-10m     Stram Rowing     Stram     Stram	This knownation grant and the second	> 1.0m + 1.5m e 3 < 1.0m (± 3 37)5 r AVERAGE B AVERAGE AVERAGE B AVERAGE AVERAG	ANKFULL VNO d Raph (R) selec L R c in solared poor in solared poor	TH (melfres) 2.1. axing downstreamstr Conservation Telege Urban or Industfiel Open Posture, Row Corp Mining or Canstruction Mining or Canstruction vis. no Bow (intermittent	

QHEI PERFORMED? - C Yes The QHEI Score		m) Stream 47 Modified
DOWNSTREAM DESIGNATED USE(S)		Class 2
WWH Name:		
CWR Name:		
C EWH NAME	Distance Barn Evolus	and statesm
MAPPING: ATTACH COPIES OF MAPS, INCLUDING	HE ENTIRE WATERSHED AREA. CLEARLY MAR	K THE SITE LOCATION
USGS Quedrangle Nome	NRCS Soi Map Page NRCS S	ol Map Stream Order
County	Tøynship / City	
MISCELLANEOUS		
Base Flow Conditions? (YiN): C Date of last precipitatio	Quantity	
Pilolograph Information		
Emister Turbidby" (Wills: N Canopy (% open):	95	
Ware samples calls ded for water chemistry? (Vills: N 0	rate lab sample no or id and atlach results) Lab	lumber
Field Messures Temp (*C) Deserved Oxygen (mo		
ADDISCOMPANY AND ADDISCOMPANY		
to the sampling reactive presentative of the stream (YA) $\underline{7}$	Winck please explain	
Additional comments/desc iplion of polution expansion		
BIOTIC EVALUATION		
	Voudier collections opponal - NOTE: all voucher sa reld data sheets from the Primary Hoodwator Habitid	
Fish Observed? (Y/N) Voucher? (Y/N) Salama Frogs of Tadpoles Observed? (Y/N) Voucher? (Y/N)	iders Observed? (Y/N) Vouchei? (Y/N) Aquatic Macroinvarteorates Observed? (Y/N)	Vouchor? (Y/N)
Comments Repirding Bology		

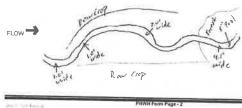
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location Row o' Wide

FLOW 🕂 Row LIOF PHINH Form Page - 2 which cans destriction work Also be Completed): QHEI PERFORMED? - TYes THE QHE Score \_\_\_ (If Yes, Atlach Completed QHEI Form) DOWNSTREAM DESIGNATED USE(S) Distance from Evaluated Stream

iÅ

U CWH Name	Distance from Evaluation Stream	Stream 4 Modified Class 2
EWH Mame	Distance turn Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING T	THE ENTIRE WATERSHED AREA, CLEARLY MARK THE SITE LOCATION	
	NRCS Sol Map Page NRCS Sol Map Stream Order	
MIRCELLANEOUS	Toseship/City	
Base Row Conditions? (YAN) Date of last precipitation	Ouanuly	
Photograph Information		
Elevated Turbidity? (Y/N) Campy (Wiopen)	9.5	
Mare complex collected for		
	de lab sample no or id and ettach results) Lab Number	
Field Measures Temp (°C) Dissolved Oxygen (mg/)	) pH (S U.) Conductivity (µmhos/cm)	
s the sampling reach representative of the stream (Y/N)	If not please english	
		-
Addelonal comments/description of polution HTV adda		
BIOTIC EVALUATION		
	cucher collections ophonal. NOTE all voucher camples must be tableted with th id data sheets from the Primary Head vator Hisbitat Assessment Manuali	esde
sh Observed? (Y/N) Vouchart (Y/N) Salamand	ers Observed? (Y/N) Vaucher? (Y/P);	
ish Observed? (Y/N)	ACUALC Macforrvertebrates Observed? (Y/N) Vourteer? (Y/N)	





	OCATION Good Hoper - Hac					Mo Cla
		1/14/4-3 RIVE			DRAINAGE AREA (mi <sup>i</sup> ) _	
	TREAM REACH (1)					— L
	nplete All Items On This Form					structions
					C RECENT OR NO RE	
AODIFICAT		URAL CHANNEL	J RECOVERED	29 RECOVERING	LI RECENT OR NO RE	COVERT
		_	_	_		_
	of 40). Add total number of significa					HHEI
TYPE	P	Borniz D/	-		PERCENT	Points
	LDR SLABS [16 pls] OULDER (>256 mm) [16 pls]		SILT [3 pf]	WOODY DEBRIS	3 p(s]	
00 5	EDHOCK (18 µ0		TINECETR	TUS (3 pris)		Substrate Max = 40
	OBBLE (15-250 mm) [12 pts] (RAVEL (2-04 mm) [9 pts]	<u> き</u> ロ - ロレ		RDPAN (D pl)		
	AND (<2 mm) (6 pts)	1 0				ß
	Total of Percentages of	(A)	-		(0)	A+B
	Sabs, Boolder, Cobble, Bedruck NO MOST PREDOMINATE SUBS	IN THATE TYPES	2	NUMBER OF SUS	STRATE TYPES	11
-			1,00,010	Ale se		Pagi Depth
evel	mum Fool Depth (Reasure the m aton. Avoid plunge pools from con-	acentaria pool depth 5 culverts or shorm w	aterrates) (Ches	& ONLY one boxic	In reach an are bline bl	Mac = 30
	entimaters [20 pts] - 30 cm [30 pts]		>5 cm - 10	orm [15 pts]		30
	22.5 cm [25 pm]		T NOWATE	R OR MOIST CHAI		1 20
CON	MENTA		MA	MUM POOL DEP	(A) (centifyeters):	3
			surements)	(Check ONLY o	ne bax):	Bankfull
	K FULL WIDTH (Measured as the	average of 3-4 mea				
240	neters (> 13') [30 pin]	averaga of 3-4 mea	☐ >1.0m - 1 ⊴ ≤1.0m (s	.5 m (> 3'3" - 4'8")   3'3") [5 pts]	15 pts]	Width Maxmag
☐ >40r		average of 3-4 mea	☐ >1.0m -1 ☑ ≤1.0m (s	.5 m (> 3 3" - 4' 8")   3 3") [6 pts]	15 pts]	
>40r >30r >15r	neters (> 13') [30 pts] n - 4.0 m (> 8'7" - 13') [25 pts]	average of 3-4 mea	⊡ ≤1.0m.(≤	.5 m (> 3 3*- 4*8*)   3*3*) [6 pts] RACCE BANKFULL	A. 15	
>40r >30r >15r	naters (> 13') [30 ptn] n - 4.0 m (> 8'7" - 13') [35 ptn] n - 3.0 m (> 4'8" - 6'7") [20 pts]		⊴ ≤ 1.0 m (s	J 3") [6 pts]	A. 15	
>40r >30r >15r	nders (> 13') [30 ptn] n - 4.0m (> 6'7' - 13') [25 ptn] n - 3 0m (> 4' 6'' - 6''7') [20 ptn] MENTS	This Informa PLAIN QUALITY	ک ≤ 1.0 m (≤ AVE AVE <u>AVE</u> NOTE: River Le	ני מין (5 pcs) RACE BANKFULL completed	A. 15	5
+40     ->30     ->15     Cold	nders (> 13) [20 pts] n - 4.0m (> 9'7 - 13') [20 pts] m - 3 0m (< 4' 6' - 6' 7') [20 pts] mENTS RIPARIAN ZONE AND FLOOD! <u>RIPARIAN WIDTH</u>	This Informa PLAIN QUALITY FLOODPLAIN Q	AVE AVE AVE AVE AVE AVE Sanote: River Le UALITY	יז שיין (Spes) אמספי BANKFULL completed ft (L) and Right (R)	A WIDTH (mgkfrs)	5
L 8	nders (- 13) (30 (rd) n - 30 (n) (67 - 13) (20 (nd) n - 3 0 (n) (67 - 67 7) (20 (nd) MENTS RIPARIAN ZONE AND FLOOD/ <u>RIPARIAN WODTH</u> ( (Per Bank) ) Wide > 10m	This Informa PLAIN QUALITY FLOODPLAIN Q L R (Moat R Mature	Iton must also be ShOTE: River Le UALITY Predominant per Ba- Forast, Watland	9 3") (5 pte) AAGE BANKFULL completed ft (L) and Right (R) ink) L R	A: WIDTH (mgkfrs) as looking downstream fr	5
	nders (- 13) (30 (rd) n - 30 (n) (67 - 13) (20 (nd) n - 3 0 (n) (67 - 67 7) (20 (nd) MENTS RIPARIAN ZONE AND FLOOD/ <u>RIPARIAN WODTH</u> ( (Per Bank) ) Wide > 10m	This Informa PLAIN QUALITY FLOODPLAIN Q L R (Most I Mature	AVE AVE AVE AVE: River Le UALITY Prodominani, per Ba	37 37 (5 pcs) RAGE BANKFULL completed ft (L) and Right (R) ink). L R	A: WIDTH (mgefer) as looking downstream fr Conservation Tillage Urban or Industrial	5
	nders (= 13) [02 (H4] 4.0m (= 0 <sup>2</sup> - 12) [22 (H4] 3.0m (= 0 <sup>4</sup> ( <sup>16</sup> - 0 <sup>2</sup> 7) [22 (H4] MENTA 	This Informa PLAIN QUALITY FLOODPLAIN QU L R (Most I Mature Peedo Flooto Reside	Iton must also be ShOTE: River Le UALITY Predominant per Ba- Forast, Watland	ar any (5 pee)	MIDTH (myders)	5
	nders (= 13) (3) (3) (3) (3) 3 (3) (6) ( 15) (2) (2) (2) (2) 3 (3) (6) (- 4' (5' - 6' 7') (2) (24) (3) MENTS 	This Informa PLAIN QUALITY FLOODPLAIN Q I. R. (Most Mature Mature Reside	AVE AVE AVE AVE: River Le UALITY Predominant per B: Forest, Welland are Forest, Welland	9 3") (5 ptel)	MIDTH (myders)	Marriso 5
	nders (= 13) (3) (3) (3) (3) (3) (3) (3) (3) (3) (	Telis Informa PLOODPLAIN Q L R (Model Meture Meture Paido Reside	Ion must also be and the formation of t	ar any (5 pee)	MIDTH (myders)	Mar 10 5
	nders (= 13) [D3 (H3] = -3 Dm (= -4' (F' - 0' 7) [23 (H4] = -3 Dm (= -4' (F' - 0' 7) [23 (H4] NENT3 RIPARIAN XONE AND FLOOD/ RIPARIAN XONE (PP (BAR) (VM (B - 10m) Marrow <5m Nore COMMETTS FLOW REGIME (Al Time of Eve Stream Flowing	This information of the second	LY one box	2 3") (6 peo]	A- WIDTH (mgWre) IS as looking downsiream Urban or industrial Open Pasture, Row Crop Mening or Construction digoota, no fice (Intermetiti	
	ndero (= 13) (12) (22) (23) 	This information of the second	LY one box	27 37 (6 pea)	A- WIDTH (mgWre) IS as looking downsiream Urban or industrial Open Pasture, Row Crop Mening or Construction digoota, no fice (Intermetiti	
	Inters (= 13) (3) (3) (3) (3) (3) (3) (3) (3) (3) (	This information of the second	1.0 m (s     10 m (s	3 3" (6 pee)	A- WIDTH (mgWre) IS as looking downsiream Urban or industrial Open Pasture, Row Crop Mening or Construction digoota, no fice (Intermetiti	
	neters (= 13) (3) (3) (3) (3) (3) (3) (3)           - 4.0m (= 0 <sup>2</sup> - 15) (2) (20 (4))           - 3.0m (= 0 <sup>2</sup> - 0 <sup>2</sup> - 7) (20 (44))           MENTS	This Information QUALITY FLOODPLAINS I. R. (Most Metropy Peide Redd	1.0 m (s	3 3" (6 pee)	A- WIDTH (mgWre) IS as looking downsiream Urban or industrial Open Pasture, Row Crop Mening or Construction digoota, no fice (Intermetiti	
	nders (= 13) (B) (#4) = - 40m (= 0 <sup>-7</sup> - 13) (22 (#4) = - 3 0m (= 4 <sup>+</sup> 0 <sup>-</sup> - 0 <sup>-7</sup> 7) (22 (#4) <b>MENTS</b> <b>RIPARIAN XOPH</b> <b>RIPARIAN XOPH</b> (Per Bank) (Per Bank) (Med exits 5-10m None COMMENTS FLOW REGIME (AI Time of Eve Stream Flowing Stream Flowing Stream Flowing ShuDGSTY (Number of bens) (1)	This information of the informat	1.0 m (s	3 3" (6 pee)	A- WIDTH (mgWre) IS as looking downsiream Urban or industrial Open Pasture, Row Crop Mening or Construction digoota, no fice (Intermetiti	

QHEI PERFORMED? - 🗇 Yes (I No. QHEI Score (II Yes, Allach Completed QHEI Form)	Stream
DOWNSTREAM DESIGNATED USE(S)	Class
WWW Name	100000
Dielance from Evplusted Stream	-
Covariate from Evaluated Stream     Distance from Evaluated Stream	
MAPPING: ATTACH COTIES OF MAPS, INCLUDING 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? (YAV) Date of last precipitation: Quantity:	
Pholograph Information:	_
Elevated Turbidity' (Y/N) Canopy (% open) &	
Were samples collected for water chemistry? (Y/N): (Note leb sample no ion id, and attech results) Leb Number:	_
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S,U, ) Conductivity (µrihos/cm)	
a the sampling reach representative of the stream (Y/N) Hinol, please explain;	-
Additional comments/description of polution impartia	-
	-
BIOTIC EVALUATION	
BIOTIC EVALUATION Performed 7 (V/M)	e ste
BIOTIC EVALUATION Performed? (V/N)N ((Yes, Record all observations, 'Weather solvestions objiosal' NOTE; all voucher samples must be lobeled with the lob	e sto
BIOTIC EVALUATION BIOTIC EVALUATION (IV Yes, Record all observations, Weather adhestions optional: NOTE; all voucher samples must be bodied with up Discusses, Record all observations, Weather adhest bod adh where bors the Through Medization adhest adhest Discusses (VAI) Variable (VAI) Variable (VAI)	e ste
BIOTIC EVALUATION Performed? (V/N)N ((Yes, Record all observations, 'Weather solvestions objiosal' NOTE; all voucher samples must be lobeled with the lob	e sato
BIOTIC EVALUATION     Performed? (Y/N)(N Yee, Record all deservations, Vavathar ablections agains NOTE; all vourber samples must be bolied with the      De number, Record against bid again where box the Pinnary Meditate Habid Avainsment Marcuki     Tob strived? (Y/N)	e sato
BIOTIC EVALUATION     Performed? (Y/N)(N Yee, Record all deservations, Vavathar ablections agains NOTE; all vourber samples must be bolied with the      De number, Record against bid again where box the Pinnary Meditate Habid Avainsment Marcuki     Tob strived? (Y/N)	e sata
BIOTIC EVALUATION  Performed? (Y/N)	e sate
BIOTIC EVALUATION           Performed? (Y/N)         N           (II) number: Noxide adjustmentions, Vegatar solved on applications. NOTE: all vourber samples must be labeled with the labeled of the labeled of the labeled of the labeled with the labeled withe labeled with the la	
BIOTIC EVALUATION  Performed? (Y/N)	
BIOTIC EVALUATION           Performed? (Y/N)         N           (II) number: Noxide adjustmenters (Magdater Baherdoningsband: NOTE: all vourber samples munt be labeled with the ID number: Noxide adjustmenter baherdoning Magdater Baherdonin	
BIOTIC EVALUATION           Performed? (Y/N)         N           (If Yes, Record ell desenations, Youther saleden editational, NOTE; all youther sately is must be labeled with the ID number, isolate automater handle desenation in the labeled with the ID number, isolate automater handle desenation handle isolated at the sale automater handle desenation in the labeled with the ID number, isolated at the sale automater handle desenation handle isolated at the sale automater handle desenation isolated at the sale automater handle description of the dream's location are handle in the dream's location are handle at the sale automater isolated at the sale aut	
BIOTIC EVALUATION           Performed? (Y/N)         N           (If Yes, Record ell desenations, Youther saleden editational, NOTE; all youther sately is must be labeled with the ID number, isolate automater handle desenation in the labeled with the ID number, isolate automater handle desenation handle isolated at the sale automater handle desenation in the labeled with the ID number, isolated at the sale automater handle desenation handle isolated at the sale automater handle desenation isolated at the sale automater handle description of the dream's location are handle in the dream's location are handle at the sale automater isolated at the sale aut	
BIOTE EVALUATION         Derformed? (V/N)       N         (II) number: bodie adaptivations, 'Kouthair sobretions optional' NOTE: all voucher samples murt be labeled with the intervention of the source of	
BIOTIC EVALUATION           Performed? (Y/N)         N           (If Yes, Record ell desenations, Youther saleden editational, NOTE; all youther sately is must be labeled with the ID number, isolate automater handle desenation in the labeled with the ID number, isolate automater handle desenation handle isolated at the sale automater handle desenation in the labeled with the ID number, isolated at the sale automater handle desenation handle isolated at the sale automater handle desenation isolated at the sale automater handle description of the dream's location are handle in the dream's location are handle at the sale automater isolated at the sale aut	
BIOTIC EVALUATION         Performed? (Y/N)       N         (II) number: Nodes appropriate states to ease to see t	
BIOTIC EVALUATION         Performed? (Y/N)       N         (II) number: Nodes appropriate states to ease to see t	
BIOTIC EVALUATION         Performed? (Y/N)       N         (II) number: Nodes appropriate states to ease to see t	
BIOTIC EVALUATION         Performed? (Y/N)       N         (II) number: Nodes appropriate states to ease to see t	

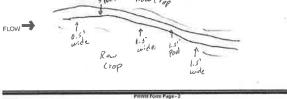
Merel Server

are in 211 February

PHWH Form Page - 1

ENAMEA OCATION Great Har - H			Class 1
SITE NUMBER A	14-3/24/16 4 RIVER BASIN	DRAMAGE AREA un?)	
	LATLONG N	IVER CODE RIVER MILE	
TE 3/24/2016 SCORER PSR			
OTE: Complete All Items On This Fo	rm - Refer to "Field Evaluation Manual fo	or Ohio's PHWH Streams" for Inst	uctions
REAM CHANNEL	ATURAL CHANNEL DRECOVERED DRE	COVERING RECENT OR NO REC	OVERY
ODIFICATIONS:			
SUBSTRATE (Estimate percent of e	very lype of substrate present. Check ONLY two	opredominant substrate TYPE boxes	E
	icani, substrate types found (Mex of B). Final metric PERCENT TYPE	tic score is sum of boxes A & B PERCENT	HHEI Metric
PE BLDR SLABS [16 pts]	IPHT SILT[3 pt]	GIZ_	Points
BOULDER (>255 mm) [16 pls]	EAF PACK/WOOD		Substrate
BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts]			Max = 40
COBBLE (65-256 mm) [12 pls] GRAVEL (2-64 mm) [8 pls]	3 O MUCK [0 pts]	4 [0 pi]	a
SAND (<2 mm) [6 pts]	ARTIFICIAL [3 pis]		
Total of Percentages of	A (A)	(B)	A+B
Bidr Blabs, Boulder, Cobble, Bedrock	0 6	3	A*B
ORE OF TWO MOST PREDOMINATE SUE	STRATE TYPES: TOTAL NUMB	BER OF SUBSTRATE TYPES:	
Maxhmum Pool Deeth Measure me	maximum pool depth within the 61 meter (200	fit evaluation reach at the time of	Past Depth
evaluation. Avoid plange pools from re	and sulverts or shorm water pipels) (Chock ONL)	Y are bacc	Max = 20
> 30 certimeturs (20 pts) > 225 - 30 cm (30 pts)	5 cm - 10 cm [1: < 5 cm [5 pts]	5 pts]	15
1 > 10 - 22.5 cm [25 pts]	NO WATER OR M	NOIST CHUNKEL (Bpts)	Sec.
COMMENTS	MAVIEIN	POOL DEPTH (centingfiers):	- Hannessell
BANK FULL WIDTH (Measured as to > 4.6 meters (> 13) [20 pts]		uck ONLY one box): 3'3' - 4'8') [15 pts]	Bankfull Width
>3.0m + 4.0m (> # 7 - 12) (20 pm)	3 1.0m(s 3'37)5	5 pte]	MAKE20,
>30m + 40m (> ¥ 7 - 12) [25 ph] >15m - 20m (> < 8 - 9 7) [20 ph]	3 1.0m(< 33)[5		Max=30
) >36m +40m (>#7-12)(20 ph) >15m -20m (><8'-#7)(20 ph)		Ft 1.2	5
>36m+40m (>#7+12)(20 pm)			5
) >36m +40m (>#7-12)(20 ph) >15m -20m (><8'-#7)(20 ph)	AVERAGE This biformation <u>must</u> also be comple	FI- BANKFULL WIDTH (matylis)	5
A CIM - CUM (CVF-T2)(20 pr)     Sism - 20m (C+FF-T2)(20 pr)     COMMENTS     RIPARIAN ZONE AND FLOO     RIPARIAN ZONE AND FLOO	AVERAGE This biformation must also be comple DPLAIN QUALITY CHOTE: River Left (L) ar FLOODPLAIN QUALITY	Ft. BANKFULL WIDTH (matyfs) aled nd Right (R) as looking downstream &	5
>3cm - 40m (> 47 - 12) (25 pr)           >15m - 10m (> 67 - 97) (25 pr)           COMMENTS           RIPARIAN ZONE AND FLOO           RIPARIAN ZONE AND FLOO           RIPARIAN ZONE AND FLOO	AVERAGE This Information <u>must</u> also be comple DPLAIN QUALITY & NOTE Rover Left (L) at FLOODPLAIN QUALITY L. R. (Mast Presonant per Baris)	Fr. 1.2 BANKFULL WIDTH (mai) (5)	J
> 3.5m - 4.0m (0 € 7 - 12) [D şni]           > 1.5m - 4.0m (0 € 6 * 7 7 1) [D şni]           COMMENTS	AVERAGE This biformation <u>must</u> also be comple OPLAIN QUALITY AVOTE Fore Let (L) a FLOCOPLAN QUALITY L R (Mod Production for Barls) C Mustor Forest, Weiland	EANKFULL WIDTH (meyfic)	5
>3cm - 40m (> 47 - 12) (25 pr)           >15m - 10m (> 67 - 97) (25 pr)           COMMENTS           RIPARIAN ZONE AND FLOO           RIPARIAN ZONE AND FLOO           RIPARIAN ZONE AND FLOO	AVERAGE This biformation <u>must</u> also be comple OPLAIN QUALITY & VAPTE Fore Let (L) ar FLOCOPLAIN QUALITY L R (Mod Predomant per Barls) C Mustor Forest, Weiland Immatular Forest, Shub or Cid Find	BANKFULL WIDTH (metyfe)	5
> 3.5m - 4.0m (0 € 7 - 12) [D şni]           > 1.5m - 4.0m (0 € 6 * 7 7 1) [D şni]           COMMENTS	AVERAGE This hiformation must also be completed OPLAIN QUALITY TWO TE NOVE THE ALSO BE OPLAIN A QUALITY L R (Made Protonant per Bank) Mature Forest, Waltand Mature Forest, Waltand Forest, Solar Cold Field Residential, Park, New Field	BANKFULL WIDTH (meyes)	5
>1         >1         >1         1	AVERAGE This hiformation <u>must</u> also be comple OPLAIN QUALITY OVICE Foren Left(1) ar FLOCOPLAN QUALITY I, R (Mod Predomant per Bark) C Muture Forest, Weiland C Immulue Forest, Shub or Cite Find	BANKFULL WIDTH (meigra)	5
> 3 cm - 4.0 m (*** - 12) (2) pin)           > 1 cm - 10 m (*** - 12) (2) pin)           > 1 cm - 10 m (*** - 12) (2) pin)           COMMENTS           COMMENTS           COMMENTS           I no (*** - 12) (2) pin)	AVERAGE This biformation <u>must</u> also be comple OPLAIN QUALTYAVTCF : Nore Left(L) an FLOCOPLAIN QUALITYL RAVTCF : Nore Left(L) and L RAVTCF : Nore Left(L) and L RAVTCF : Nore J = 10000000000000000000000000000000000	BANKFULL WIDTH (meight) alad d RigN (R) as looking downstream d L R Conservation Tillage Urban or industrial Grop	5
> Size - 4UM (0 07 - 12) [D pin]           > Size - 12M (0 07 - 12) [D pin]           COMMENTE           COMMENTE           RIPARIAN ZONE AND FLOO RIPARIAN WODTH           L R (Per Dan)           Wide > 10m           Wide > 10m           Namow <sm< td="">           None           COMMENTE          </sm<>	AVERAGE This Information must list be completed optain Guild TY the Transmission of th	BANKFULL WIDTH (merges)	5
>>10m         ->12m         >>12m         >>12m <td< td=""><td>AVERAGE This hiformation <u>must</u> elso be comple OPLAIN QUALITY AVOTE 'Rover Left (Lis PLOCOPLAN QUADITY AVOTE 'Rover Left (Lis PLOCOPLAN QUADITY L R (Mode Production of the state) Residential, Port, New Field Residential, Park, New Field Fenced Pasture Valuation/ (Check ONLY one bog) Kolid Che</td><td>BANKFULL WIDTH (meights)</td><td>5</td></td<>	AVERAGE This hiformation <u>must</u> elso be comple OPLAIN QUALITY AVOTE 'Rover Left (Lis PLOCOPLAN QUADITY AVOTE 'Rover Left (Lis PLOCOPLAN QUADITY L R (Mode Production of the state) Residential, Port, New Field Residential, Park, New Field Fenced Pasture Valuation/ (Check ONLY one bog) Kolid Che	BANKFULL WIDTH (meights)	5
> Size - 4UM (0 07 - 12) [D pin]           > Size - 12M (0 07 - 12) [D pin]           COMMENTE           COMMENTE           RIPARIAN ZONE AND FLOO RIPARIAN WODTH           L R (Per Dan)           Wide > 10m           Wide > 10m           Namow <sm< td="">           None           COMMENTE          </sm<>	AVERAGE This hiformation <u>must</u> elso be comple OPLAIN QUALITY AVOTE 'Rover Left (Lis PLOCOPLAN QUADITY AVOTE 'Rover Left (Lis PLOCOPLAN QUADITY L R (Mode Production of the state) Residential, Port, New Field Residential, Park, New Field Fenced Pasture Valuation/ (Check ONLY one bog) Kolid Che	BANKFULL WIDTH (merges)	5
COMMENTS     COMMENTS     COMMENTS     COMMENTS     RIPARIAN ZONE AND FLOO     RIPARIAN ZONE AND	AVERAGE This information must also be complete OPLENN GUALITY - ChOTE: New Field OPLENN GUALITY I. R. (Made Protomation for Backs) I. R. Mature Freed, Walland Destands Forest, Walland Destands Forest, Walland Destand Pasture Peneed Pasture Valuation) (Check ONLY one ben) Optimized Destand Destanded Destan	BANKFULL WIDTH (meights)	5
Sitem - 4.0 m ( 0 # 7 - 12) (Dp (n)     Sitem - 4.0 m ( 0 # 7 - 12) (Dp (n)     COMMENTE     COMMENTE     RIPARIAN 20NE AND FLOO     RIPARIAN 20NE AND	AVERAGE This hifemation must also be comple optain quality who Te Nover Let(1 an	BANKFULL WIDTH (meyes)	5
COMMENTS     COMMENTS     COMMENTS     COMMENTS     RIPARIAN ZONE AND FLOO     RIPARIAN ZONE AND	AVERAGE This information must also be complete OPLENN GUALITY - ChOTE: New Field OPLENN GUALITY I. R. (Made Protomation for Backs) I. R. Mature Freed, Walland Destands Forest, Walland Destands Forest, Walland Destand Pasture Peneed Pasture Valuation) (Check ONLY one ben) Optimized Destand Destanded Destan	BANKFULL WIDTH (meights)	5
ALEM - 44 PM OF 7 - 127 (Pp PH)     SIS - 120 PM OF 7 - 127 (Pp PH)     SIS - 120 PM OF 7 - 127 (Pp PH)     COMMENTS     RIPARIAN ZONE AND FLOO     BIPARIAN ZONE AND FLOO     BIPARIAN ZONE AND FLOO     Norder als 3-10m     Norder als 3-10m     Norder als 3-10m     Norder als 3-10m     COMMENTS     Sitema Flooring     COMMENTS     Sitema Flooring     Sitema Fl	AVERAGE This information must also be completed optains Quality the Off Free Let() an Incoopt of the Optamental Strengt Welland Incoopt Wellan	BANKFULL WIDTH (meinfa)	5

ADDITIONAL STREAM INFORMATION (This information Must Also be Completed); Stream 50, Modified QHEI PERFORMED? - TYes The QHEI Score \_\_\_\_\_ (If Yes, Alach Campleted OHEI Form) DOWNSTREAM DESIGNATED USE(5) Class 1 WWH Name Distance from Evaluated Stream Distance from Evaluated Stream, Distance from Evaluated Orman MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION \_\_\_\_ NRCS Soil Map Page \_\_\_\_\_ NRCS Soil Map Stream Order \_\_\_ USGS Quadrangle Name Township / City County \_\_\_\_\_ MISCELLANEOUS Quantity Base Flow Conditions? (Y/N):\_\_\_\_\_ Date of last precipitation Photograph Indomination. Elevated Turbicity? (Y/N) \_\_\_\_\_ Canopy (% open) \_\_\_\_\_ /0.D Were samples collected for water chemistry? (Y/N) \_\_\_\_\_ (Note tab sample no, or id, and attach results) Lab Number.\_ Field Measures: Temp ("C)\_\_\_\_\_ Dissolved Oxygon (mg/l) \_\_\_\_\_ pH (& U.) \_\_\_\_\_ Conductivity (unhou/bit) Is the sampling reach representelive of the stream (YAN)  $\underline{\top}$  . If not please might in \_\_\_\_\_ Additional comments/description of pollution impacts \_ BIOTIC EVALUATION Performed7 (YfNI) \_\_\_\_\_\_\_ (If Vers, Record all disarvations: Voucher colloctions optional NOTE: all voucher samples mud be lab and with the site ID number. Instudo appropriate field data shoch from the Primary Headwater Vetbeta (Assessment Vanual) Comments Regarding Biology\_\_\_\_\_ DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): include important landmarks and other features of interest for sile evaluation and a narrative description of the stream's location how 1 op sipol



River Code:	STORE	T#: La	L/Long.:	/8 .	Office verified
	the Real Property in the second se		83 - declmai *)*		Office verified [
BEST TYPES BLOR GLABS (10) CORBLE (A) CORBLE (A) CORNEL (A) BORAVEL (7) BORAVEL (7) BORAV		IRTYPES POOL RUFF IRDPAN [4] IRDPAN [4] IRTHING [3] IRTHING [3] IRTHICAL [0] Econ natural substitution by g studge from point stock	LE ORIGIN TILLS (1) TILLS (1) HAROPAN (0) BANDETONE (0) CONTUNNE (0) CONTUNE (0) CONTU		UALITY AVY [-2] DERATE [-1] Sudative RMAL [0] EL [1] TENSIVE [-2]
			COAL FINES [-2]		
2] INSTREAM COVE contr, 3 Honey address controls log that is attable. UNDERCUT BARKS OVERHANDING VE SHALLOWS (IN SLO RODTMATS (1) Comments	well developed reatived well developed reatived F[1] GETATION [1]			r. turge Check C i pools. D EXTER ERS (1) D YOUR (TES (1) C SPAR	AMOUNT NE (0 = X strenge) (SIVE > 75% [1] SE 5-25% [1] DE 5-25% [3] LY ABSENT <5% [1] Cover Maximum Maximum
☐ H]GH [4]	ELOPMENT CI XCELLENT [7] [] NO KOOD [5] [] 'RE ANR [3] [] -RE	HANNELIZATION	STABILITY	)	Chaosed Manniam 20
A) BANK EROSION A EROSION Pranone / LITTLE (3) Pranone / LITTLE (3) Pranone / LITTLE (3) Commonis	RIPARIAN W WIDE > som [4] MODERATE 10- NABROW 5-100	ADTH F C Fores 50m (3) C SHRUE (2) C PESIDE (4 5m (1) C FENCE	REGOV for EACH BANK (C LOOD PLAIN QUAL T, SWAMP [3] OR OLD FIELD [3] BYTAL PARK, NEW FIEL D PASTURE [1] PASTURE, ROWCHOP [0	ITY	VATION TILLAGE [1] OR INDUSTRIAL (0) CONSTRUCTION (0) (SWICONT (04(5))
5] POOL / GL/DE ANI MAXIMUM DEPTH Check ONE (ONLY) > 1m [6] 0,7-<1m [4] (70.40.7m [2] 0.2-<0.4m [1] < 0.2m [0] Components	D RIFFLE / RUN QU CHANNEL V Check ONE (Or 2 POOL WIDTH > RIFF DOOL WIDTH + RIFF	NIDTH C & overage) LE WIDTH [2] TORA LE WIDTH [1] VERY LE WIDTH [0] FAST PMODE	CHRENT VELOCITY Check ALL that apply ENTIAL[-1] SLOW (1) FAST (1] INTERNT (1] INTERNT ERATE (1) EDDIES ( cale for reach - pools and r	Pri/ FIAL [-1] ITENT (-2)	Post Contact Indary Contact Indary Contact Mary Contact During Contact Macmung 3
Indicale for funct of riffle-obligate s RIFFLE DEPTH BEST AREAS > 10cm [2] BEST AREAS 5-10cm [1] BEST AREAS < 5cm	species: RUN DEPTH  MAXIMUM > 50cm	Check ONE (Or 2 & RIFFLE / RUN [2] STABLE (e.e. C [1] MOD. STABLE (	SUBSTRATE RIF	FLE / RUN EMB	

TENAVELOCATION _ Deced Hope - 1		HHEI Score			Clas
	<u>///::k:4//</u> hiven ex LAT LO		VER CODE	RACIE AREA (m <sup>2</sup> )	
ATE 3/24/2016 BOOMER PS.R		Internets	1 5110	dee.	
NOTE: Complete All Items On This Fo	rm - Refer to "Field Ev	aluation Manual for	Ohlo's PHWH	Streams" for Inst	nictions
TREAM CHANNEL ONONE / N	ATURAL CHANNEL JA	RECOVERED D'REC		ECENT OR NO REC	OVERY
IODIFICATIONS:					
SUBSTRATE (Estimale percent of a	and the second sector best and a second	and Charle Day year			
(Max of 40). Add total number of signifi	icant substrate types found	(Max of 6) Fanal metri	c score is sum of	strate TTPE Dones porces A & B	HHEL
TYPE"	PERCENT TYPE	50.7 D p0		PERCENT	Points
BOWLDER (>258 mm) [16 pts]	ăă	LEAF PACKMOOD	V DEBRIS [3 pts]	13	1 Onico
BEDROCK (18 pd	00	FINE DETRITUS D			Substrate Max = 40
CORELE (45-255 mm) [12 pts]	00	CLAY & HARDINA	(10 pr)		100 - 40
ORAVEL (2-64 mm) [0 pts]     DAUD (-2 mm) [0 pts]	<u> </u>	MUCK (8 pts) ATTIFICIAL [3 pts]			19
		second prove for built			
Total of Percentages of Bidr Stabs, Boulder, Cabble, Bedrock	D A V			(B) 4	A + B
ORE OF TWO MOST PREDOMINATE SUB	STRATE TYPES:	TOTAL NUMBE	ER OF SURSTRA	TE TYPES:	
Mastroom Pool Dayth (Measure and	martment poat depth with	In the 51 meter (200)	/() evaluation read	h at the time of	Pooi Dupih
invaluation. Avoid plange picels libra re-	ad culverts or storm water	(Check ONLY	ane box :		Max = 30
> 10 centimeters (20 pts) > 22.5 - 30 cm (30 pts)	5	> 5 cm - 10 cm [15 < 5 cm [5 pm]	pts]		
■ > 10 - 22 5 cm (25 pla)	0	NO WATER OR M	OUST CHANNEL [	0 pts]	23
COMMENTS		MAXIMUM P	OOL DEPTH (on	director al:	
DAME FOR I WARTEN HAR SHOULD BE THE					
BANK FULL WIDTH (Measured as th > 4 Constera (> 12) (20 pts)	w average of 3-4 measure	ments) (Cher ≥1.0 m - 1.5 m (> 3	ck ONLY one box 3'3" - 4'87 [15 pis]		Bankfull Width
= 4 Cmsters (> 17) (00 pcs) = 3.0m + 4.0m (> 977 - 13) (25 pcs)	e zorage of 3-4 measure C	mendas) (Cher ⇒t0m - 1.5m (> 3 ≤10m (≤ 3 37)[5	3' 3" - 4' 8"  15 pis		
>10m -10m (>17) [20pts] >1.0m -10m (>17' (20pts) >1.0m -10m (>17' (20pts)	e average of 3-4 measure	> 10 m - 1.5 m (> 3 ≤ 10 m (≤ 3 3 ) [5	3' 3" + 4' 8") [15 pis] pts]	Fl. 2.5	Width
> 4 Cmmers (> 13) [30 pts] > 3.0 m + 4.0 m (> 217 - 13) [35 pts]	e zverage of 3-4 measure M	> 10 m - 1.5 m (> 3 ≤ 10 m (≤ 3 3 ) [5	3' 3" - 4' 8"  15 pis	Fl. 2.5	Width
	This information	> 10 m - 1.5 m (> 3 ≤ 10 m (≤ 3 3 ) [5	3'3' + 4' 8') (15 pis) pts) BANKFULL WIDTI	Fl. 2.5	Width
ALMINERO 137 JODALI     ALMINERO 137 JODALI     ALMINERO 137 JODALI     ALMINERO 137 JODALI     COMMENTS     COMMENTS     RIPARIAN ZONE AND FLOOD	This Information i	AVERAGE E	3'3" - 4'87 [15 pis] pts] BANKFULL WIDT	Fl. Z.J H (mgfars)	Width
COMMENTS COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN ZONE AND FLOOD <u>RIPARIAN ZONE</u> AND FLOOD <u>RIPARIAN ZONE</u>	This Information ( DPLAIN QUALITY AN FLOODPLAIN QUALI L R (Most Pred	AVERAGE E	3'3" - 4'87 (15 pts; pts) adan KFULL WIDT ed d Right (R) as lock	Fl. Z.J H (mgfars)	Width
• 4 Cmitters 17) Doptid           • 2 Cmitters 0 57 - 100 Estimation           • 1 Limit 20 m p ff = 77 120 grad           • Commercial Comparison           RIPARIAN ZONE AND FLOOD <u>RIPARIAN ZONE AND FLOOD</u> <u>RIPARIAN WODH</u> L R           (Per Bant)	This information DPLAIN QUALITY IN <u>FLOODPLAIN QUALI</u> L R (Most Prede Mature Ford Mature Ford	AVERAGE E MVERAGE E MVERAGE E MVERAGE E MUSI also be complet IOTE: River Left (L) and TY ominum per Bank) si, Welland	3'3"- 4'87 (15 pts) pts] 3ANKFULL WIDT ed d Right (R) as lock	Fl. Z.J H (mgfars)	Width
COMMENTS COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN ZONE AND FLOOD <u>RIPARIAN ZONE</u> AND FLOOD <u>RIPARIAN ZONE</u>	This Information DPLAIN QUALITY ☆N <u>FLOODPLAIN QUALI</u> L R (Most Pred Mature For	AVERAGE E MUERAGE E	3'3"- 4'87 (15 pts) pts) 3ANKFULL WIDT ed d Right (R) as lock	F), Z.J H (myfers)	Width
RIPARAM ZONE AND FLOOD RIPARAM ZONE AND FLOOD RIPARA	This Information ; DPLAIN QUALITY IN <u>ELCOOPLAIN QUALITY</u> IN L R (MOST Pred Meture Foru Field	AVERAGE E MVERAGE E MVERAGE E MVERAGE E MUSI also be complet IOTE: River Left (L) and TY ominum per Bank) si, Welland	SARKFULL WIDT	4 (myers) Z.J ing downstream & onservation Tillage roban or Industrial pon Pasture, Row	Width
Alem + 4 how 57 - 152 point     Alem + 154 how 57 - 152 point     Alem + 154 how 57 - 152 point     Alem + 154 how 57 - 154 how 57 - 154 how 57 how 58 ho	This Information ; DPLAIN QUALITY IN <u>ELCOOPLAIN QUALITY</u> IN L R (MOST Pred Meture Foru Field	AVERAGE E MURACE AS 3715 AVERAGE E THE ASSAULT AND A AND A AVERAGE E THE ASSAULT AND A AVERAGE E AVERAGE A AVERAGE E AVERAGE E AVERAG	3 37 - 41 87 (15 pt s) pts] aANKFULL WIDTI ad d Right (R) as look L R L R C C C C C C C C C C C C C C C C C C C	FJ. Z.F 4 (myfers) ing dawnstreamstr anservation Tillage rban or Industrial	Width
** (Emissip 17) [Dodd]     ** (Emissip 17) [Dodd]     ** (Emissip 17) [20 ptd]     ** (Emissip 17) [20 ptd]     ** (Emissip 17) [20 ptd]     COMMENTS     RIPARIAN ZONE AND FLOOT     RIPARIAN WOTM     L R (Pre Bah)     Wide=100     Wide=100     Wide=100     Wide=100     Mide=100	This Information DPLAIN QUALITY 1 L R (Most Pred D Meture Fon Immature Fon Immature Fon Residential, Residential,	AVERAGE E MURACE AS 3715 AVERAGE E THE ASSAULT AND A AND A AVERAGE E THE ASSAULT AND A AVERAGE E AVERAGE A AVERAGE E AVERAGE E AVERAG	3 37 - 41 87 (15 pt s) pts] SANKFULL WIDTI ed d Right (R) as look L R C C C C C C C C C	H (mylers) Z.J I (mylers) Z.J ing downstream conservation Tillege rban or Industrial pop Pasture, Row rop	Width
Commence 17) Dipold     Software 17) Dipold     Software 17) Dipold     Commence 17) Dipold	This Information PLAIN QUALITY 4 FLOODPLAIN QUALI I. R (Most Prece Immature For Immature For Plain P	Average to a set of the set of th	3 37 - 41 87 (15 pt s) pts] SANKFULL WIDTI ed d Right (R) as look L R C C C C C C C C C	H (mylers) Z.J I (mylers) Z.J ing downstream conservation Tillege rban or Industrial pop Pasture, Row rop	Width
* (Emmerge 13) Dodd * (Emmerge 13) Dodd * (Em * 10 n + 57 - 15) Berd * (Em * 10 n + 57 -	This informations PPLAIN QUALITY 2N PCOOPLAN QUALITY 2N COOPLAN QUALITY PCOOPLAN QUALITY Price	Average e Average e Merce as a second at the second at t	33-4*87 [15 pts] pts] SANKFULL WIDTI ed d Right (R) as lock C C C C C C C C C C C C C	F), 2,7 4 (myers) 2.7 4 (myers) 2.7 ing downstream & conservation Tilage topon Paduta topon Paduta topon Paduta topon Paduta topon Construction , no Rev (Intermitient)	Wom Mac20
Constant 17) Docki Constant of 77 - USD set Constant of 77 - USD set Constan	This informations PPLAIN QUALITY 2N PCOOPLAN QUALITY 2N COOPLAN QUALITY PCOOPLAN QUALITY Price	Average e Average e Merce as a second at the second at t	33-4187 [15 pts] pts] BANKFULL WIDT ad d Right (R) as lock L R C C C C C C N	F). 2.7 4 (myers) 2.7 4 (myers) 2.7 ing downstream & conservation Tilage topon Paduta topon Paduta topon Paduta topon Paduta topon Construction , no Rev (Intermitient)	Wom Mac20
Komerge 12) Dopti Commerge 12) Dopti If an 4 an or 57 - 150 Seq Commerge RIPARIAN ZONE AND FLOOD EIPARAMOTH L R (Per Ban) Wide >10m Moderate 5-10m Moderate	Tils Information PLAN OUALITY 2AT <u>RECODELAN OUAL</u> L R (Most Pres Matter Freid Residenia) P Residenia) P Residenia) Residenia) (Check ONLY'o Sofs (Inference)	A Lam - 1.5 m c 2 C Lam - 1.5 m c 2 C Lam - 1.5 m c 2 AVERAGE E AVERAGE E MUSE Job Comparison TY TY TY TY TY TY TY TY TY TY	3 3 - 4* 8> [15 pts] pts] sankFULL WIDT ed d Right (R) as look	F). 2.7 4 (myers) 2.7 4 (myers) 2.7 ing downstream & conservation Tilage topon Paduta topon Paduta topon Paduta topon Paduta topon Construction , no Rev (Intermitient)	Wom Mac20
* Contene 17 2) Dodd     * Contene 17 2)	Tils Information PPLAN GORLITY AN Encoder The State of the State of	A Lam - 1.5 m c 2 C Lam - 1.5 m c 2 C Lam - 1.5 m c 2 AVERAGE E AVERAGE E MUSE Job Comparison TY TY TY TY TY TY TY TY TY TY	start + t is jis projection of the projection of	F). 2.7 4 (myers) 2.7 4 (myers) 2.7 ing downstream & conservation Tilage topon Paduta topon Paduta topon Paduta topon Paduta topon Construction , no Rev (Intermitient)	Wom Mac20
Commence 12 Dipold     Commence 12 Dipold     Commence 12 Dipold     Commence 27 - USD and	This information; DPLANF QOALITY 23 H FLOODDLANF AND TODDLANF FOR Tender For Price Pric	Aumen - 1.5m e 2     Common - 1.5m e 3	3 3 - 4* 8> [15 pts] pts] sankFULL WIDT ed d Right (R) as look	F). Z.J (myra) Z.J ing downstream conservation Tillage thon or Industrial pon Pealure, Row row hing or Construction , no flow (Intermitient) oreal)	Wom Mac20
* Contene 17 2) Dodd     * Contene 17 2)	Tils Information PPLAN GORLITY AN Encoder The State of the State of	Aligner - 1.5 m (2 )     Clamic - 3.5 m (2 )     Clamic - 3.5 m (2 )     AVERAGE E      MVERAGE	y 3 + tho   tis person person   ad a Right (R) as local d a Right (R) as local c c c c c c c c c c c c c c c c c c c	4 (myers) 2.5 ing downstream & anservation Tillage than or habstrial pon Pasture, Row rop non Bow (Intermittent) non Bow (Intermittent) 3.0	

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F] MEASUREMENTS USTRY Z det All de and Tel. met depth burary Ebenkali widh Coccol so burari Coccol so and Coccol so and WD ratio Coccol for and Coccol for a
Е] ISSUES WWTP / CSO, NPEES : NUDUSTRY HARDRED / UNDEAN / NDUSTRY CONTANNETD / UNDUSTRY BINF-2018FINCTION-SCONETT BINF-2018FINCTION-SCONETT BINF-2018FINCTION-SCONETT DOCIMAL FILL NOTANI, YOU / NIE / QUARTY / LOU MUTDAL, YUSUES/ COLEFT / UNDU / HOUSE PARTY (SOUT LAWN / HOUSE PARTY (SOUT / ANN / HOUSE PARTY (SOUT / ANN / HOUSE PARTY (SOUT / ANN / HOUSE
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sda		American American	Eco.
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Stream 52, Modified Class 2

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QHEI PERFORMED? - 7 Yes TNo QHEI Score	(If Yes, Attach Completed QHE! Form)
DOWNSTREAM DESIGNATED USE(5)  VWH rame CWH Name Reven Name Reven Name	Distance from Disbated Garaan Disbate from Explored Stream Disbate from Explored Stream
USGS Quedrangle flame	ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATIONNRCS Soil Map PageNRCS Soil Map Stream Order
MISCELLANEOUIL Base Flow Conductors? (YAI) / Obte of last presignation Photograph Internation:	0.0000

ADDITIONAL STREAM INFORMATION (This Information Must Also be Campiled)

Elevated furbidity' (YN).	
Were semples collected for water chemistry? (Y/N : (Note tab Sample no or id, and attach results) Lab Number:	

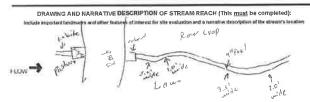
FIELD Measures	Temp (*C)	_ Dissolved Oxygen (	mg/i)	pH (5.07	Condensity (humanent)	
is the sampling read	ch representative of	(he stream (Y/N)	If not please	explain		

Additional comments/description of pollution inpants

BIOTIC EVALUATION

Performed? (V/N): \_\_\_\_\_\_\_\_ (If Yes, Record all closervations. Valather extentions reduced. NOTE: all exceeder camples ID merikar, include appropriate fault data sheets from the Pairway Hardwater Halt fat Asso at be labeled with the site

Voucher? (Y/N)



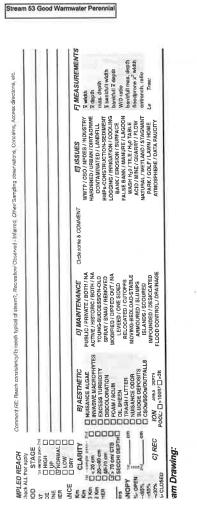
and T. Ton Rouse

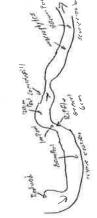
Privit Form Page - 2

Stream & Location: OH-3/24/16-2 Good Hope - Harrison	RM: Date: _3/ 24/ 06
Stream 53 Good Warmwater Scorers Full Name & Attiliation:	Philip Reserver, NECOM 66
River Code: STORET II: Lat/Long:	/8 Onlice Herritiko
River Code: STORET #: Lat/ Long.:	/8         Office perification           NNE (Or 2.8 average)         OUALITY           OUALITY         HEANY (21)           NMCDEATE (11)         Substrate           SILT         HAODERAL [11]           Profile         Free [11]           ODE         Extremente (24)           ODE         Extremente (24)           NONE [1]         None [1]           Profile         AMODERATE [14]           NONE [1]         Check ONE (07 28 average)           Check ONE (07 28 average)         Freshill           Check ONE (07 28 average)         Freshill           Freshill         GARDE 8–25% [17]
3] CHANNEL MORPHOLOGY Check ONE III each category (Or 2 & average)           SINUOSITY         DEVELOPMENT         CHANNELIZATION         STABILITY           HIGH (4)         ExcelLent[]         HONE (6)         HIGH (3)         HIGH (3)           UNDERATE (2)         GOOD (5)         FRCOVERIDE (4)         HODERATE (2)           LOW (2)         LF FAR (3)         RECOVERING (5)         LOW (1)           NONE (1)         DOOR (1)         RECOVERING (5)         LOW (1)           NONE (1)         RECOVERING (5)         LOW (1)         LOW (1)	
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (O	
BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (0)     Benn and taking demotes in RIPARIAN WIDTH PLOOD PLAIN QUALT     EROSION IN WIDE's Son (1)     BANK (0)     Contract (2)     Contract (2)     Contract (2)     Contract (2)     Contract (3)	N <sup>2</sup> per bank & averapi) TV Conservation Tillage [1] URBAN OR INCONTRIAL [0]
Bitry optimizing average         RIPARIAN WIDTH         FLCOD PLAIN OUALI           EROSION         WIDE × Som [4]         D FOREST, SWAMP [3]           MONE (LITTLE [3]         WIDE × Som [4]         D FOREST, SWAMP [3]           PENDER LITTLE [3]         BODETATE 10-Som [2]         SKRUB GR ALD FIELD [2]           PENDER LITTLE [3]         BODETATE 10-Som [2]         SKRUB GR ALD FIELD [2]           Charge of the second secon	V2 per bank & average) TV 
Encode developed and and an encode of the second and the s	Providence of the second seco
Encode devices         RIPA RIAN WIDTH         FLOOD PLAN QUALI           ERCOSION         INDE - Son (I)         FOREST, SWARP (3)           PLANONE / LITTLE (3)         DIGODERATE (15-50m (2))         SHIRBLO ON CLO FIELD (2)           PCMODERATE (2)         DIGODERATE (15-50m (2))         SHIRBLO ON CLO FIELD (2)           PCMODERATE (2)         DIGODERATE (15-50m (2))         FERSONTALL, (15-60m (2))         FERSONTALL, (15-60m (2))           DIGODERATE (2)         DIGODERATE (15-50m (2))         FERSONTALL, (15-60m (2))         FERSONTALL, (15-60m (2))           Compress         INNONE (0)         21 OVER HASTURE, (11)         FERSONTALL, (15-60m (2))         CORRENT VELOCITY           Compress         Compress         CORRENT VELOCITY         Check (NE (0)? 2 S average)         Check (ALL bat apply)           District (6)         CORDUM UDTH FIFELE WIDTH (2)         TORRENTAL (-1)         INTERNIT           District (6)         COUND UDTH FIFELE WIDTH (2)         Check (ALL bat apply)         Check (ALL bat apply)           District (6)         COUND UDTH FIFELE WIDTH (2)         TORRENTAL (-1)         INTERNIT           District (6)         POOL WIDTH FIFELE WIDTH (2)         FAST (1)         INTERNIT           District (6)         POOL WIDTH FIFELE WIDTH (2)         FAST (1)         INTERNIT           District (6)	V2 per bank & average) TY CONSERVATION TILLAGE [1] UNRAN ON INCUSTAIAL [0] MARKING / CONSTRUCTION [0] Mark 100m Agains Apparan Marking Marking / Contact Secondary Contact Entry [2] TENT [2] Pol/
Encode developed and and an encode of the second and the s	PortAnit & average()     TY         ConsEnvation TH LAGE [1]         UnRear on MODISTRIAL (c)         Postan on Modulation (c)         Postan on Modulation (c)         Postan on Modulation         Postan
Encode development       RIPA RIAN WIDTH       FLGOD PLAIN QUALI         ERCOLOR       RIPA RIAN WIDTH       FLGOD PLAIN QUALI         Impose full transmission       RIPA RIAN WIDTH       FLGOD PLAIN QUALI         Impose full transmission       RIPA RIAN NOTE       SHRUB ON OL OFIELD [2]         Impose full transmission       SHRUB ON OL OFIELD [2]       RESOUNTAL, RAAR, NOW FEDD [2]         Impose full transmission       RESOUNTAL, RAAR, NOW FEDD [2]       RESOUNTAL, RAAR, NOW FEDD [2]         Comments       Impose full transmission       PEDOL / GLIDE AND RIFFLE / RUN QUALITY         Chark ONE [0]       Chark NOW FEDD [2]       Chark NOW FEDD [2]       Chark ALL Statupply         Impose full transmission       Chark ONE [0]       Chark ALL Statupply       Chark ALL Statupply         Impose full transmission       Chark ONE [0]       Statupply       Chark ALL Statupply         Impose full transmission       Chark ALL Statupply       Chark ALL Statupply       Chark ALL Statupply         Impose full transmission       Chark ALL Statupply       Chark ALL Statupply       Impose full transmission       Chark ALL Statupply         Impose full transmission       POOL WIDTH = RIFFLE WIDTH [0]       CHAR RIM Statupply       Impose full transmission       Impose full transmission         Impose full transtrain       POOL WIDTH = RIFFLE WIDTH [0] <td>Population     Population     P</td>	Population     P

Stream 54, Modified Class 2

HI-GRE-032416-04 Chiefes Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) :	42
http://www.comport.com/composition         CM         River Basin         Oralinage Area (m²)           Lenation of Structure Basin         Lena         River Code         River Mile           Are 2/22///p         Scones (Mile)         River Mile         River Code         River Mile           Are 2/22///p         Scones (Mile)         Scones (Mile)         True         River Code         River Mile           NOTE: Complete All Items On Thile Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst         Note: Complete All Items On Thile Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	fructions
STREAM CHANNEL □ NONE/NATURAL CHANNEL □ RECOVERED 図 RECOVERING □ RECENT OR NO RE MODIFICATIONS: 但身 比化な	COVERY
1.         SUBSTRATE (Estimate parcent of sway type of substrate parsent. Check ONLY type predoment substrate. Type The Doors Substrate types found (Max of 8). Final matric score is sum of bases A & B.           TYPE         BLOR SLASS (16 pts)           BLOR SLASS (16 pts)         FERCENT           COBLER (5256 mm) (12 pts)         FERCENT           GRAVEL (24 wm) (16 pts)         MUCK (10 pts)           Tatal Procentages of BLOF SLASS, Bouther, Cooper, Leindox         (A)           BLOR SLASS, Bouther, Cooper, Leindox         (A)           GRAVEL (24 wm) (16 pts)         GRAVE (24 wm) (16 pts)           Tatal Procentages of BLOF SLASS, Bouther, Cooper, Leindox         (A)           BLOF SLASS, Bouther, Cooper, Leindox         (A)           GRAVE (25 pts)         GRAVE (25 pts)           Tatal Procentages of BLOF SLASS, Bouther, Cooper, Leindox         (A)           GRAVE (25 pts)         GRAVE (25 pts)	HHEI Metric Points Bubstrefe
Maximum Pool Depth (Measure the maximum pool depth within the If neater (360 ft) walkstice reach at the time of exacutance. Avoid parage pools from road culverts are storm water priors. (Cover (XK) Yere bio):     30 centimetra (10 per)     225 - 30 cen (12 per)     225 - 30 cen (12 per)     225 - 30 cen (12 per)     20 cen (12 per)     20 cen (12 per)     20 centimetra (10 per)     20 centimetra (10 per)     20 centimetra (10 per)     20 centimetra     20 centimetra     20 centimetra     20 centimetra     20 centimetra	Paol Depth Max = 30
3.         BANK FULL WIDTH (Measured as the overage of 3-4 measurements)         (Check ONLY one box):           □         > 4 0 m.der(P 127) (20 pt)el         N         > 10 m 1.5 m. P. 3'.3' - 4'B') (15 pts)           □         > 3 0 m 4.6 m. PC 7'.1 - 173 (22 pts)         S         1.0 m. (2 3'3') (5 pts)           □         > 15 m 3.0 m. (- 4'B' - 6'7') (20 pts)         S         1.0 m. (- 3'3') (5 pts)           COMMENTS	Bænkfull Width Maxe30
This substrate from grant, also be samplefed           REFARENT CORE AND FLOOPPLAIN GUALITY         OPPLAIN GUALITY         Constraining provided in the floor of the solocing downdream \$\Presspansistics           R PARIAN WIDTH         FLOOPPLAIN GUALITY         Constraining provided in the floor of	
FLOW REGIME (At Time of Evelvation) (Check ONLY one box)     Stream Flowing     Substrite flow with isolated pools (internatite)     Dry chemnel, no water (Ephermeral)     Conversional Conversion of Conversional Conversio	ntj
SINUGATY (Number of bendgoer 81 m (200 h) of channel)         Check D/LY one box:         1         20         30           None         1.0         2.0         30         30           0.5         1.5         2.5         33	
STREAM GRADIENT ESTIMATE A Fail (o S Mices) File to Moderate O Noderate (; 4100 a) Noderate to Severe O Spyletere	101 N 10





Stream 54, Modified Class 2
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		1111-676-022416-04
ADDITIONAL STREAM INFORMATION	Tels Information Must Also De Completed	Ľ.
QHEI PERFORMED7 - 🗍 Yes	No OHE Score (II Yes A	Allach Completed QHELForm)
DOWNSTREAM DESIGNATED	JSE(S)	
		Distance From Evoluated Stream
		Distance Fom Evaluated Stream
EWH Name		Distance Fem Evaluated Stream
		IED AREA. CLEARLY MARX THE SITE LOCATION
		ap Page NRCS Sou Mep Stream Order
County	Township ( Dry	
MISCELLANEOUS		
Base Flow Conditions? (YA)	are of last precipitation	Quantity
Photograph Information	2276	
Elevated Turbidity? (Y/N)		
		id and all oth results) Lab Runder
Field Mossizes Temp (°C)	pH (S U	) Conductivity (µmhos/cm)
is the some ind reach representative of th	e stream (VAD Test pages explan	
	State of the second	
ID numbe	r. Induae appropriate field data sheets from the	terna". NDTE all vouchter sausples musi die tabielei wijh the e Propary Headwaker Habital Assessmant Manaziti )Voucher? (YN) Voucher? (YR) betrates Observed? (YN) Voucher? (YR)
		AM REACH (This must be completed): on and a narrative description of the stream's location
include important landmarks and	Dan features of Diversit for the evaluation	In and a narranne example in our criticity is not about
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	~ () · ·	marticled the second
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1.	0.2	
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Access to a statement	PRWN Form Page - 2	

O	Primary Head	water Habitat Evalu	ation Form (sum of metrics 1, 2, 3):
DATE ,	E: Complete All Items On This Form - Refer	to "Field Evaluation Manual for	
	IFICATIONS: YRUAING/23/TL	Row	
	GRAVEL (2-64 mm) [9 pie]     SAND (<2 mm) [8 pis]     Tolal of Percentages of	substrie present, Check ONL Y two la types found (Max of 8), Final metric TPPE LEAP PACKWOODY LEAP PACKWOODY LEAP PACKWOODY LEAP PACKWOODY ARTIFICIAL (3 pre)	score is sum of baces A & B HHEI <u>PERCENT</u> Points DEBRIS [3 pis] pts] Max = 40
score	Bidr Siebs, Boulder, Cobbie, Bedrock	TOTAL NUMBE	R OF SUBSTRATE TYPES
200	Maximum Pool Depth (Resource the maximum p evenuation: Avail planape pools from road culverts > 30 certifications (20 ptn) > 22 5 - 30 cm (30 ptn) > 10 - 22.5 cm (25 ptn)	<pre>criterreveloptel (Check ONLY) &gt; 5 cm + 10 cm [15] &lt; 5 cm [3 pix]</pre>	Max = 30
_	COMMENTS		DOL DEPTH (conlimeters):
3000	BANK FULL WIDTH (Measured as the Average of > 4 Constants (> 13) [30 pits] > 3.0m - 4.0m [> 0 <sup>-7</sup> - 13) [25 pits] > 1.5m - 3.0m [> 4' 8'- 0' 7') [20 pits]	af 3-4 measurements) (Chec □ > 1.0 m - 1.5 m (> 3' 风 ≤ 1 0 m (≤ 3' 3') [5 p	
	COMMENTS	AVERAGE B	ANKFULL WIDTH (meters)
	RIPARIAN ZONE AND FLOODPLAIN QU	s Information <u>musi</u> size be complete AUTY \$NOTE: River Left (L) and DPLAIN QUALITY (Mosi Predominant per Bank) Majure Forest, Welland	id Right (R) as looking downstream & L R C D Conservation Trilage
	Moderale 5-10m ⊠⊠	Invitation Forest, Shrula of Old	Urban or Industrial
	□ Narrow <5m □ □ □ None □ □	Residential, Park, New Field Fenced Pessure	Open Paslure, Row Cross- Mining or Construction
	FLOW RECOME (At Tame of Evaluation) ( Stream Flowing Subscriptor flow with isolated pools (intersti COMMENTS	Moist Chatte	nei, isoloted pools, no filer (arteamiliant) . no -walet (Epiterhanal)
	SINUOSITY (Number of bends per θ1 m (λ           None         1.0           0.5         1.5	200 ft) of channel) (Check ONLY one 20 20 20 20 25	box): 3.0 >3
<b>a</b>	STREAM GRADIENT ESTIMATE at 1958/1990 AL Fial to Moderate D Mo	derate ====== 🗍 Moderate I	lo Severe
UR		the second se	

Stream 56, Modified Class 2

hh-bae-032416-01 Primary Headwater Habitat Evaluation Form 45 HHEI Score (sum of metrics 1, 2, 3) : lumon 11-bac-03/46 -01 are numer 01 RIVER BASIN DRAINAGE AREA UN LENGTH OF BTREAM REACH OU LAT COMMENTS TO KING HELD 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 IN A LINAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERY MODIFICATIONS: 00 Flot 1000 SUBSTRATE (Estimate percent of every type of substrate present, Check ONLY two predominent substrate TYPE boxes (Mex of 40) Add tablinumber of significant substrate types found (Mex of 8). Final metric score is sum of boxes A & B HHEI Metric Points PERCENT PERCENT SILT (3 pt) LEAF PACKWOODY DEBRIS (3 pts) FINE DETRITUS (3 pts) CLAY or HARDPAN (0 pt) BLDR SLABS [16 pls] BOULDER (>258 mm) [16 pls] 5 \_\_\_\_ Bubsirale BEUROCK [18 pt] CORELE (65-256 mm) [12 pcs] N ORAVEL (2-64 mm) [0 pts] MUCK [0 pts] 20 ND SAND (<2 mm) [6 p1s] ARTIFICIAL [3 pis] Total of Percentages of ABIdr Stebs, Boulder, Cobble, Bedrook (A) (B) A+B TOTAL NUMBER OF SUBSTRATE TYPES No the 61 meter (290 /0) evaluation much at the time of plons) (Check ONLY one book) > 5 cm + 10 em [15 pts] Maximum Pool Depth (Measure die maximum pool depth wi exacution. Avoid plange pools toen mad sutverts or storm wate > 30 continues (20 pts) Pool Dept Max = 30 Non-I Check Chill's one board
 5 cm - 10 cm [15 pts]
 6 cm [5 pts]
 NO WATER OR HOLST CHANNEL [5 pts] 200 15 > 22 5 - 30 cm (20 cfs) = 10 - 22 5 cm (23 (45) MAXIMUN POOL DEPTH (continues) COMMENTS\_\_\_\_ 
 BANK PULL W8DTH (Mossund as the average of 5-6 measurements)
 (Check ONL Yone box):

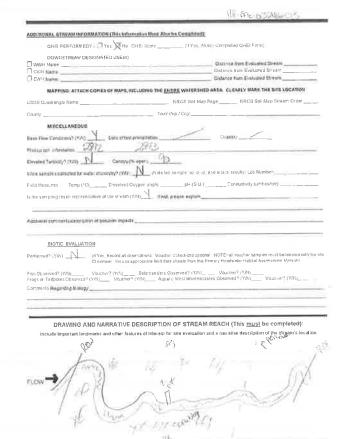
 > < 6 measure - 17) (Doped)</td>
 D
 > 10m - 15m (> 37 - 4°) (15ptd)

 > 5 (m - 10m (> 07 - 13) (Doped)
 S
 ε\*0m (< 373) (5ptd)</td>

 > 16m - 10m (> 6°F - 13) (Doped)
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 ε\*0m (< 373) (5ptd)</td>
 Bankfull Width <u>Moxe20</u> ם מ AVERAGE BANKFULL WIDTH IMPROVES COMMENTS This information must also be campialed RIPARIAN ZONE AND FLOODPLAIN QUALITY ONOTE: Here Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY /Most Predominant per Bank) RIPARIAN WIDTH L R (Most Predmant) per Bank) L R (Per Bank) Wida >10m L R Conservation Tillage Urban or Industrial Muderale 5-10m Open Pasture, Row Crop Clop Lating & Construction Residential, Park, New Finkl Narrow <5m Fenced Paslure FLOW NEGME (All Turne of Evaluation) (Check ONL<sup>1</sup> are Loc) Stream Flowing Bound (Intersitient) Bub with a contract of the stream of the stre 
 GINUOSITY (Number of bends per 61 m (200 fl) of channel)
 (Check O/JL Y one box)

 None
 1.0
 2.0

 0.5
 1.5
 2.5
 None 0.5 □ 3.0 □ >3 BTREAM GRADIENT ESTIMATE Moderate (2 a) (20 1) Severe (10 kit/s a) PHWH Form Page - 1



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Stream 56, Modified Class 2
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IT THE DEPARTOR

DOWNSTREAM DESIGNATED USE(S)	
	Distance from Evaluated Stream
	Distance for Evaluation Stream
	TIRE WATERSHED AREA. CLEARLY MARX THE SITE LOCATION
	NRCS Sol Map Page NRCS Sol Map Sheam Order
County Town	ship/Cry
MISCELLANEDUS	
Base Flow Conditions" (Yshi) N. Date of last precipitation	Quantity
Photograph Information	2 196310
Photograph Information 37(3.1.) CC12 220-1	
Elevaled Turbidiy" (YA) N Canopy (% open)	
Were sample's collected for water chemistry? (Y/N) (Note +	c sample no or Id and allach results) can Number
Field Measures Temp ("C) Dissolved Oxygen (mg4)	pH (S U ) Condust vity (umhos/cm)
is the sampling reach representative of the stream (YRI)	Name and the
is the sampling reach representative or the snear (1771) (1700)	mease and and
Additional comments/desc iption of point an imperial	
BIOTIC EVALUATION	
Performed? (Y/M) (if Yes, Record all observations. Vouch	remainstrate political. NOTE all voucher samples must be labeled with the
ID volupe. [ucings althrobig) is very ca	ta sheats from the Phrnary Headwater Lipotal Assessment Manual)
Fish Observed? (YA) Voucher? (YA) Swamanders Frogs on Tadp-Hes Observed? (YA) Aque	Is shedts from the Phonesty Headwater (Tabrist Assessment Marcus) Ct-serve 27 (1711) Voucher? [1713] the Maardinvertebrales Observed? (1711) Voucher? (1911)
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-1997 (Procession)

		sessment Field Sheet	QHEI Score: 63.5
Stream & Location: Ha	niso-GH	OH-BAE-032416-01 RM	. Date: - 1 _ 10
	- Columban	Scorers Full Name & Attiliation: BA	e/cms 3/24/19
River Code: -	- STORET W	LALI LORD.	8_ · Office ver
SUBSTRATE Check ON	Y Two succentria TYPE BOXE or note overy type present	Check ONE (	Or 2 & average)
	RIFELE OTHER TYP		QUALITY HEAVY [-2]
BLDR /SLABS [10]			MODERATE [-1] Su
COBBLE [8]	60 D MUCK [2]	WETLAND6 (0)	
GRAVEL [7] 10 SAND [6] 10	10 D SILT [2]	[0] ZGANDSTONE [0]	DEO. DEXTENSIVE [-2]
D BEDROCK (6)	(Scoro natu	ral substrates; ignore CRIP/RAP (0)	DEON DEXTENSIVE [-2]
	ES: A ¢ or hibre [2] crosse □ 3 or lens [0]	SHALE [-1]	I NONE [1]
Comments		COAL FINES [-2]	
2] INSTREAM COVER	dicate presence 0 to 3. 0-Abre	ent. 1-Very small amounts or if more common of it not of highest quality or in small amounts of the	Hargest AMOUNT
quality: 3 Highest quality in mo	derate or greater amounts (e)	, very large boulders in deep or fast water, larg tast water, or deep, well-defined, kunstrian pro-	EXTENSIVE >75% [11]
UNDERCUT BANKS [1]	POOLS »	/ucm [2] UXBOWS, BACKWAITENS [	
1 OVERHANGING VEGET			
BOOTMATS (1)	10000109 00000		5
Comments		4	Massimum 20
3] CHANNEL MORPHOL	OGY Check ONE in each ca	tegeny (O-26 average)	
SINUOSITY DEVEL	OPMENT CHANNE	LIZATION STABLETT	
HIGH [4] EXCE	LLENT [7] NONE [6]	D [4] HIGH [3]	
LOW [2] FAIR	[3] Dr RECOVERI	NG [3] LOW [1]	Channel
		R NO RECOVERY [1]	Maximum 20
4] BANK EROSION AND	RIPARIAN ZONE Ches	KONE in each category for EACH BANK (Dr 2 p FLOOD PLAIN QUALITY	er bank & averaget
EROSION	H	C C FOREST, SWAMP (9)	CONSERVATION TILLAGE
🖞 🗍 NONE / LITTLE [3] 🛛 🕱	MODERATE 10-50m [3]	A SHRUB OR OLD FIELD (2)	URBAN OR INDUSTRIAL
🗋 🔁 HEAVY/SEVERE [1] 📋		C RESIDENTIAL PARK, NEW FIELD [1]	indicate prodominant land visitility
Di HEAVY/SEVERE [1]	[] NARROW 5-10m [2]   [] VERY NARROW < 5m [1   ] NONE [0]		Indicate prodominant land usafilit past foom rearian. Riparten
D-HEAVY/SEVERE [1]	E VERY NARROW < 5m [1	C PENCED PASTURE [1]	indicate prodominant land visitility
ロ 宮-HEAVY/SEVERE [1] ロ Comments トゥ	1 [] VERY NARROW < 5m [1   ] NONE [0] ] ] [FFLE / RUN QUALITY	COPENCEO PASTURE (1)	Indicate productionant band useful past 100m reaman. Reparters Maximum
回日HEAVY/SEVERE [1] Comments しら 5] POOL / GLIDE AND A MAXIMUM DEPTH	VERY NARROW < 5m [1   NONE [0] 3   FFLE / RUN QUALITY CHANNEL WIDTH	CURRENT VELOCITY	botcate predominant land shartb) pair 100m rpanian. Riparian Maniturin 10
□ ⊡.HEAVY/SEVERE [1]         Comments         \.5         POOL / GLIDE AND F         MAXIMUM DEPTH         Check ONE (ONLY)         □ > 1m [6]	I U VERY NARROW < 5m [1	CURRENT VELOCITY CHORA ALL mail apply CHORA ALL mail apply Chor	Advised processing and land unelly pair 100m reason Manister 10 Recreation Potentia Primary Contact Secondary Contact
BHEAVY/SEVERE [1] Comments      SPOOL/GLIDE AND F MAXIMUM DEPTH Check ONE (ONL/) D>1m [6]     SI	I VERY NARROW < 5m [1 NONE [0] BIFFLE / RUN QUALITY CHANNEL WIDTH Chuck ONE (0/ 2 & avera	□         □	Addate predominant land unlik) part 100m. rpartin Mainting Mainting 10 Mainting
□ B.HEAVY/SEVERE [1]           Comments           5] POOL / GLIDS AND F           MAXIMUM DEPTH           Check ONE (ONLY)           > 1n [6]           ⊠ 0.7-crim [4]           □ 0.4-c0.7m [2]           □ 0.4-c0.7m [2]	Charke width a Riffle width	Image: Construction         Image: Construction           Image: Constretion         Image: Construction	Additional and useful press (2004) Reparting Materia (2004) Repart (2004) Reparting Materia (2004) Materia (2004) Primary Contact Secondary Contact Secondary Contact Primary Contact Prim
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B.HEAVY/SEVENE(1)           Comments           5           POOL / GLIDS AND F           MAXIMUM DEPTH           Check ONE (0ML/f)           > Im [6]           B.0.7-cm [4]           D.0.4-c0.7m [2]           D.0.4-c0.7m [2]           Comments           Indicate for function of riffle-obligate spin           RIFFLE OEPTH	I VERY NARROW < 5in [1 □ NORU [0] 3 INFELE / RUN QUALITY CHANNEL WIDTH Onch ONE (0/2 & averag POOL WIDTH - RIFFLE WIDT POOL WIDTH - RIFFLE WIDT © 2 nal riffles; Best areas a solas: RUN DEPTH	CURRENT VELOCITY     Check ALL mail sphy     Che	An and a second production of a second and a second a second and a sec
□ B.HEAVY/SEVENE(1)           Comments           √5           51 POOL / GLIDS AND F           MAXIMUM DEPTH           Check ONE (0)           > 1m [6]           ∞ 0.7-cm [4]           □ 0.4-c.0.7m [2]           ○ 0.4-c.0.7m [2]           Comments           indicate for function of riffle-obligate spn BIFFLE DEPTH           □ BESTAREAS > 100m [7]           □ BESTAREAS > 100m [7]	I U VERY NARROW < 5m (1 □ NORU (0) INFFLE / RUW QUALITY CHANNEL WIDTH CHANNEL WIDTH CHANNE	□         □	And a second production and and use of the second and the second a
□ B+HEAVY/SEVENE [1]           Comments           ↓ 5           5) POOL/GL/05 AND F           MAXIMUM DEPTH           Church ONE (OMU/h)           > In [6]           ≥ N.7-chm [4]           □ 0.4-c.04m [1]           ⊂ 0.4-c.04m [1]           Comments           Indicate Contention           PHEFLE DEPTH           HEETATEAS > 100m [1]           DESTATABLES > 100m [1]           DESTATABLES > 100m [2]	I U VERY NARROW < 5m (1 □ NORU (0) INFFLE / RUW QUALITY CHANNEL WIDTH CHANNEL WIDTH CHANNE	I □ □ ■ ERACED PASTURE, ROWCROP [0]           IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Associate productional land unality press robotic repairs. Repairs of Materian and Primary Contact Sociondary Contact Sociondary Contact Sociondary Contact Materian and Primary Contact Sociondary Contact Materian and Primary Contact Sociondary Contact Socionda
□ B.HEAVY/SEVENE(1)           Comments           \S           SI POOL/GL/DE AND F           MAXIMUM DEPTH           Check ONE (0/M/h)           □ D.4-GJ/DE AND F	I U VERY NARROW < 5m (1 □ NORU (0) INFFLE / RUW QUALITY CHANNEL WIDTH CHANNEL WIDTH CHANNE	□         □	And a second production and and use of the second and the second a

122 (153)

Stream 58, Modified Class 1 HH PAR (7324/6 UZ HHEI Score (sum of metrics 1, 2, 3) : ChieFFA Primary Headwater Habitat Evaluation Form 1110220112 Wh-bac-03246-02 SITE NUMBER 02 RIVER 645H DRAINAGE AREA (mi<sup>2</sup>) RIVER CODE \_\_\_\_\_ RIVER MILE \_ LENSTH OF STHEAM REACH (1) LAT. LCHO RIVER COD DATE 324/16 SCORE TATE COD COMMENTS TO M DIFLECT NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CHANNEL ONONE INATURAL CHANNEL OR RECOVERED RECOVERING OR RECENT OR NO RECOVERY MODIFICATIONS: bybken ag tic SUBSTRATE (Estimate percent of every type of substrate present, Check OHLY two predominer substrate 7YPE bases (Mex of 40). Add (dati number of significant substrate types found (Max of b). Final matric score is sum of bares A & B PERCENT DELIGIES TREAD DELIGIES TREAD HHEI Metric Points ypes toung (Max of a) - min maint actor is turn or or

"Preg
Use SiLT (2 pt)

CLAP AACKWOODY DEBRIS (3 pts)

FINE OETRITUS (2 pts)

CLAY or HARDPAN (0 pt)

ARTIFICIAL (2 pts)

ARTIFICIAL (2 pts) Substrate Max = 40 \_ 19 60 Total of Percentages of [A] Bidr Slobs, Boulder, Cobble, Bedrock BCORE OF TWO MOBT PREDOMINATE SUBSTRATE TYPES: (B) A+B Maximum Pool Depth (Messure the maximum pool depth within the 51 avera (200 ft) evaluation reach stills avouation. Averall private pools from road cultures or down water (freent) (Check 2011; Yone body: > 30 centimeters (2016) > 225 - 30 cm (2016) > 10 - 224 cm (2016) > 10 - 224 cm (2016) n reach at the time of Pool Depil Max = 30 000 5 12 MAXIMUM POOL DEPTH (centimeters): COMMENTS 
 BANK FULL WIDTH (Measured as the average of 3-4 measurements)
 (Check ONLY one box);

 > 4.0 medero (> 137) [12.0 µl)
 > 1.0 m. - 1.5 m. or 3'3' · 4'8) [15.0 µl]

 > 3.0 m. - 4.0 m. (> 4'7' - 137) [20 µk]
 > 1.0 m. (> 4'3' \ 5 µk)
 Bankfuli Width Max=30 5 31 \_AVERAGE BANKFULL WOTH (meters) COMMENTS\_\_\_\_\_ 
 This information <u>must</u> also be completed

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 L R (Per Bank) (Q 20 Wide >10m Moderale 5-10m Conservation Tilage 
 Image: State of the s Residential, Park, New Field
 Fanced Pasture Narrow <im COMMENTS\_ 
 FLOW REGIME (All Time of Evaluation)
 (Check GNLY on 8 hox)

 Stream Flowing
 Image: Character of 8 
 BINUOSITY (Number of bends per 81 m (200 fl) of channel), (Check ONLY one box):

 None
 1.0
 2.0

 0.5
 1.5
 2.5
 □ 3.0 □ >3 STREAM GRADIENT ESTIMATE Moderate to Severe C Severe (m. Mrs.) 4 D Moderale (2 1/100 l)

# Stream 57 Good Warmwater

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### Stream 58, Modified Class 1

114 BAE O'SRING OR

GHELPERFORMED? - TYes X No GHELScore II' Ye	es Allach Completed QHEi Form)
DOWNSTREAM DESIGNATED USERS)	
WWH Neme	Distance from Evaluated Stream
CWH Rame	Distance from Evaluated Stream
EWH Name	Dislance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATE	RSHED AREA. CLEARLY MARK THE SITE LOCATION
USDB Ouer regir NameNRUS Soc	Map Page NRCS Sol Map Stream Order
County Township / City	
MISCELLANEOUS	
Base Flow Conditions? (Y.N) N Detection production	Quapility
Pholograph Information	
Elevaled Turbiduly' (Y/N) N Canocy (% open)	
Were samples collected for weller alternistry? (Y/N) (Note the sample no	or id and alleen results) Lab Number
Field Measures Temp ("CI Dissolved Oxygen (mg/l) pH (	S U ) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N)	
	the second s
BIOTIC EVALUATION Performed? (VIN) (II Yea, Record all observations. Visucher addeddam Bio number: Jocket sparaptick field cate sheets that	nagharadi (1907.2) w macalyor samaytes must be tathoane with the In the Poincey Housewaler Hedrical Anoncomer Method)
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	( <u>OH-8.fig</u>	133416-01 Scoren	AEP Harison-Good Ho s Full Name & Affiliatio	an: Ca colso	Date: Delet
River Code:		DRETH	Lat. Long:	/8	/ 6Mce
1) SUBSTRATE Che BEST TYPES BORN (SLABS) (10 BOULDER (9) COBLE (8) GRAVEL (7) BERNOCK (5) NUMBER OF BEST Comments	POOL RIFFLE         0           1         10         50         0           10         50         0         0         0           20         30         0         0         0           56         A         0         0         0           TYPES:         0         4 or motion         30 or left	HARDPAN [4] DETRITUS [3] MUCK [2] SILT [2] ARTIFICIAL [0] [Score netural subsite pre [2] sludge from point	L RIFFLE ORIGIN		QUALITY HEAVY [-2] MODERATE [-1] NORMAL [9]
	3 1	1	- sensi sensuele or il more co		AMOUNT
UNDERCUT BAN	PO5 (1)	er announts (e.g., very to hvad an deep / last wate POOL(5 > 70cm) [2 ROOTWADS [1] BOULDERS [1]	y small amounts or if more co- closed quality or in strail amo- gradient of the strain of the strain of deep, well defined, find i ABOWS, BACKW AQUATIC MACRO LOGS OR WOODY	PHYTES [1] SP.	k ONE (Or 2 & ave TENBIVE >75% [1 DERATE 25-75% ARSE 5-<25% [3] ARLY ABSENT <5 Cover Maximutr 20
3] CHANNEL MORI	HOLOGY Check C	INE in each category (C	17 8 average)		
SINUOSITY DI HIGH [4]	EXCELLENT [7] C	NONE [0]	ION STABILITY		
LOW [2]	FAIR [3] [ POOR [1] [	RECOVERING [3] RECENT OR NO RE			Channe Maximur 2
NONE / LITTLE [     MODERATE [2]     MODERATE [2]     HEAVY / SEVERE	I I NARROW	E 16-60m [3] 00 6-10m [2] 00 ROW < 6m [1] 00	FOREST, SWAMP [3] SHRUE OR OLD FIELD [3] RESIDENTIAL, PARK, NEW F FENCED PASTURE [1] OPEN PASTURE, ROWCRO	FELD (1) C MININ	Solutionary, Yhung Malue
	El CL MOME [6]		OPEN PASIONE, NOMINIC		
Comments 1.5	5	¢	OPEN PASIONE, NOMENO		Maximut
5] POOL / GLIDE> MAXIMUM DEP1 Check ONE (ONLY) ▷ 1m [6] □ 2.7-1m [4] DQ.4-0.7m [2] □ 0.2-0.4m [1] □ 0.2-0.4m [0]	5 AND RIFFLE / RUA TH CHANN Check ONE POOL WOTH POOL WOTH POOL WOTH	N QUALITY IEL WIDTH (Or 2 & average) RIFFLE WIDTH [2] C RIFFLE WIDTH [1] E	CURRENT VELOC Check ALL that app TORRENTIAL [-1] SLOV	CITY W(I) RSTITIAL [-1] RWTTENT [-3]	Panan Riperia Maximun T Primary Conta econdary Conta econdary Conta Marrow
5] POOL ( 2L/DE / MAXIMUM DEP1 Creek ONE (0N/V) ⇒ 1 m (8) 0.2 ~ tm (4) DB(4-40.7 m (2) DB(4-40.7 m (2) DB(4-40.7 m (2) DB(4-40.7 m (2) Comments Indicate for fu of riffic-obliga RIFFLE DEPTH	.5 ND RIFFLE / RUN CHANN Check ONE BPOOL WOTH POOL WOTH POOL WOTH CHANNN CHANN CHANNNN CHANNN CHANNNN CHANNNN CHANNNN CHANNN CHANNNN CHANNNN CHA	N QUALITY (EL WIDTH (Dr 2 & avurage) RIFFLE WIDTH [2] E RIFFLE WIDTH [3] E RIFFLE WIDTH [5] E Check ONB Check ONB PTH RIFFLE	CURRENT VELOG Check ALL that app Tontikentrai, [-1] SLOT Veloy FAST [1] INTE FAST [1] INTE [1] INTE [	NITY NITAL [-1] RETTIAL [-1] RETTIAL [-1] RETTIAL [-1] and rifks port a population RIFFLE / RUN E	Moximun recreation Poter Primary Conte condary Conte Correct Maricel Maricel MBEDDEDNE
5] POOL / GLIDE / MAXIMUM DEPI Check ONE (ONLY) Check ONE (ONLY) Check ONE (ONLY) Check ONE (ONLY) Check ONE (ONLY) Departments Indicate for fundicate for fundicate for fundicate for fundicate for fundicate on fundicate for fu		N QUALITY IEL WIDTH (07 2 & overage) RIFFLE WIDTH [2] E RIFFLE WIDTH [3] E RIFFLE WIDTH [5] E RIFFLE WIDTH [6] E RIFFLE WIDTH [	CURRENT VELOC Check ALL that app TORRENTIAL [-1] SLOC VERY FAST [1] NITE SMODERATE [1] EDD Indicade for reach pools Indicade for reach pools I arge enough to supp [0:2.4 ecoupts]	CITY WII RESTITUALINI RESTITUALINI RESTITUALINI RESTITUALINI RESTITUALINI RESTITUALINI RESTITUALINI RIFFLE / RUNE RIFFLE / RUNE RIFFLE / RUNE RESTITUALINI	Moximu rrinary Conta econdary Cont Corre- Manual Monitorial
f) POOL ( GL/DE / MAXIMUM DEP) Crinet Oble (OALY	AND RAFFLE / RU HC CHANN Declove Pool worth Pool worth Pool worth Pool worth Pool worth Pool worth Pool worth RU RUNDE RUNDE RUNDE AU RUNDE	N QUALITY ALC WIDTH (Cr 2 & A wingth) (Cr 2 & A wingth) (Cr 2 & A wingth) (Cr 2 & A wingth) RIFFLE WIDTH (1) Cr 2 & A wingth) (Cr 2 & A wingth) RIFFLE WIDTH (1) Cr 2 & A wingth) (Cr 2 & A wingt) (Cr 2 & A wingth) (Cr 2 & A wingt	CURRENT VELOC Check ALL bat app JORGENTIAL, 10 = SLOC Very HAAT (1) = NITE SHOOEJAATE (1) = NITE SHOOEJAATE (1) = END Induse Korked-pools Induse K	CITY W11 SammaL[-1] Samma Samma RIFFLE / RUN E IDONN ISI ELOON ISI ELOON	Advinuut Primary Conta Geondary Coth Geondary Coth Maximum Ma
1 JPOOL / GL/DE / MAXIMUM DEP) Crinet ONE (ONLY) D 2-TIM (6) D 2-TIM (6) D 2-TIM (6) D 2-TIM (7) D 2-2-OM (7)		N QUALITY IEL WIDTH (CY 2 & overapt) RIFFLE WIDTH I RIFFLE WIDTH I Check ONE PTH RIFFLE Storm (I) QSTANLE Storm (I) QSTANLE UNSTAN	CURRENT VELOC Check ALL Dat age CORRENTAL () SUD VERY NAST () NTE SHOOEJATE () ENTE SHOOEJATE () ENTE SHOOEJATE () ENTE SHOOEJATE () ENTE () C' 2 & entrage () C' 2 & entrage	CITY WII RESTITUALINI RESTITUALINI RESTITUALINI RESTITUALINI RESTITUALINI RESTITUALINI RESTITUALINI RIFFLE / RUNE RIFFLE / RUNE RIFFLE / RUNE RESTITUALINI	Monimul Primary Conte condary Conte condary Conte Corre- Monimul Moni

SITE NAME/LOCATION AEP Good Hop	e-Harrison			-
SITE NUMBER		ER BASIN	DRAINAGE AREA (mi )	-
LENGTH OF STREAM REACH (R) DATE 03/24/16 SCOHER BAO/J	BL COMMEN	LONG Riv	ER CODE RIVER MILE	
NOTE: Complete All Items On This Fo	rm - Refer to "Flei	d Evaluation Manual for	Ohlo's PHWH Streams" for in	structio
	ATURAL CHANNEL	RECOVERED REC		ECOVE
MODIFICATIONS:	parian cut w/in	NOR		
1. SUBSTRATE (Estimate percent of	wery type of substra	e present. Check ONLY two	predominant substrate TYPE boxer	У Н
(Max of 32). Add total number of algo TYPE	PERCENT TY		PERCENT	M
BLDR SLABS [16 pts]	0%	SILT [3 pt]	40%	Po
BOULDER (>256 mm) [16 pts]	0%	LEAF PACK/WOOD		Su
BEDROCK [16 pl]		FINE DETRITUS [3]		Ma
COBBLE (65-256 mm) (12 pts)	0%	CLAY or HARDPAN		1
GRAVEL (2-64 mm) [9 pls]	10%	MUCK [0 pls]	0%	1
SAND (<2 mm) [6 pts]	35%	ARTIFICIAL [3 pls]	0%	
Total of Percentages of	0.00% <sup>(A)</sup>		(B)	17
Bidr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SU		9 TOTAL NUMBE	R OF SUBSTRATE TYPES: 4	
2. Maximum Pool Depth (Measure the		b within the At mate rise	I with allow reach at the time of	Poo
2 evaluation Avoid plunge pools from r	cad culverts or slorm	water pipes) (Check ONLY	one box)	M
> 30 centimeters (20 pts)		> 5 cm - 10 cm [15	pls]	
> 22.5 - 30 cm [30 pts]		< 6 cm (5 pls)		
> 10 - 22.5 cm [25 pts]		NO WATER OR ME	HET CHANNEL [0 pts]	. 11 1
COMMENTS In Inches		MAXIMUM P	DOL DEPTH (centimeters):	115-
		101	k ONLY one box):	
3. BANK FULL WIDTH (Meanured as I > 4.0 meters (> 13') [30 pts]	us average of 2-4 me	> 1.0 m - 1.5 m (> 3)		V
> 3 0 m - 4 0 m (> 9' 7" - 13') [25 pts]		✓ ≤ 1.0 m (<=3' 3") [5]		M
> 1 5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]				d re-
		AVERAGE B	ANKFULL WIDTH (meters): 2.50	
COMMENTS in fest				7.1
COMMENTS In feet				· L.
A		mation musi also be comp		
RIPARIAN ZONE AND FLOO	OPLAIN QUALITY	mallon <u>musi</u> also be comp ArNOTE: River Left (L) and	leted Right (R) as looking downstream\$	
RIPARIAN ZONE AND FLOO RIPARIAN WIDTH	DPLAIN QUALITY FLOODPLAIN C	mation <u>musi</u> also be comp \$POTE: River Left (L) and JUALITY		
RIPARIAN ZONE AND FLOO RIPARIAN WIDTH L.H. (For Bank)	DPLAIN QUALITY FLOODPLAIN C	mation must also be comp \$PNOTE: River Left (L) and UALITY Predominant per Bank)	Right (R) as looking downstream\$	
RIPARIAN ZONE AND FLOO RIPARIAN WIDTH U H (For Bank) Wide >10m		mation <u>musi</u> also be comp \$POTE: River Left (L) and JUALITY	Right (R) as looking downstreams	
RIPARIAN ZONE AND FLOO RIPARIAN WIDTH L.H. (For Bank)	OPLAIN QUALITY FLOODPLAIN C L R (Most Manual Imma Field	mallon <u>musi</u> also be comp \$7NOTE: River Left (L) and <u>UALITY</u> Predominant per Bank) <b>Forest, Welland</b> ure Forest, Shiub or Old	Right (A) as looking downstream\$	a
RIPARIAN ZONE AND FLOO RIPARIAN WIDTH U H (For Bank) Wide >10m	OPLAIN QUALITY FLOODPLAIN C L R (Most Matur Presid Resid	mallon <u>musi</u> also be comp frNOTE; River Left (L) and UALITY Prodominant per Bank) # Folum, Wetland ure Forest, Shub or Old antial, Park, New Field	Right (R) as tooking downstreams Conservation Tillage Urban or Industrial Open Pasture, Row	Crop
RIPARIAN ZONE AND FLOO <u>BIPARIAN WIDTH</u> L H (Vor tank) Wode >10m Z Moderate 5-10m Network -510 None	OPLAIN QUALITY FLOODPLAIN C L R (Most Matur Presid Resid	mallon <u>musi</u> also be comp \$7NOTE: River Left (L) and <u>UALITY</u> Predominant per Bank) <b>Forest, Welland</b> ure Forest, Shiub or Old	Right (A) as looking downstream\$	Crop
RIPARIAN ZONE AND FLOO RIPARIAN WIDTH (Pertsank) Wide >10m Z Moderale 5-10m	OPLAIN QUALITY FLOODPLAIN C L R (Most Matur Presid Resid	mallon <u>musi</u> also be comp frNOTE; River Left (L) and UALITY Prodominant per Bank) # Folum, Wetland ure Forest, Shub or Old antial, Park, New Field	Right (R) as tooking downstreams Conservation Tillage Urban or Industrial Open Pasture, Row	Crop
	DPLAIN QUALITY FLOODPLAIN ( L R (Most Masure Floid Resid Floid Floid	mailon musi also be comp wh/OTE: Fiver Left (L) and UALITY Prodominant por Bank) Protection (L) reforms, Weldendon ure Forest, Weldendon antial, Park, New Field d Pasiture VL Yone bgg):	Right (R) as tooking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Mining or Construct	Crop
HIPARIAN ZONE AND FLOO HIPARIAN WIDTH H H (/er tank) Wode >10m Wode >10m Horderate 5-10m Horderate 5-10m Horderate 5-10m Horderate COMMENTS FLOW REGUME (/it Time of B Staram Flowing	DPLAIN QUALITY FLOODPLAIN ( L R Mature Flood Mature Mature Flood Mature Matur	mation must also be compr WNOTE: Filter Left (L) and UALITY Proforman por Bank) E Forest, Shub or Old satial, Park, New Field d Pasture U. Yone bog): Moist Chan	Right (R) as tooking downstream Conservation Thlage Urban or industrial Open Pasture, Rew Mining or Construct	Crop
	DPLAIN QUALITY FLOODPLAIN ( L R Mature Flood Mature Mature Flood Mature Matur	mation must also be compr WNOTE: Filter Left (L) and UALITY Proforman por Bank) E Forest, Shub or Old satial, Park, New Field d Pasture U. Yone bog): Moist Chan	Right (R) as tooking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Mining or Construct	Crop
	Contention of the second secon	mation <u>musi</u> also be comp wNOTE; Filver Left (L) and <u>UALITY</u> Prodominant per Bank) <b>F Cesex</b> , Weldmad ure Forest, Shub or Old antial, Park, New Field d Pasture VL Y one bod; Moist Channel	Right (R) as tooking downstreams Conservation Tillage Urban or Industrial Open Pasture, Row Mining or Construct wel, isofated poots, no flow (Intermit- no water (Ephermerk)	Crop
	OPLAIN CUALITY  FLOODELAIN ( ODDELAIN ( CODELAIN ( Manageria)  Comparison ( Manageria)  Floid  Floid Floid  Floid Floid Floid  Floid Flo	mation must also be comp **NOTE:Filter.tef (L) and UAL ITV Predominant por Bank) # Felese, Weldand ure Forest, Shub or Old antial, Park, New Field d Pasture ************************************	Right (R) as tooking downstreams Conservation Tillage Urban or Industrial Open Pasture, Row Mining or Construct wei, Isstated pools, no flow (Intermit- no water (Epherneral)	Crop
	OPLAIN OUALITY     FLOODPLAINT     FLOODPLAINT     I. Mass     I. Moss     Imma     Floid     Imma     Floid     Frence     Varbustion) (Check O     posis (Interstitial)     Is per 61 m (200 H) of     1.0	mation <u>musi</u> also be comp NOTE: Fiver Left (L) and UAL ITY Prodominant por Bank) F Costa, Weldand ure Forest, Shub or Old anial, Park, New Field d Pasture Ury channel Lander, Check, ONL Y chan	Right (R) as tooking downstreams Conservation Tillage Urban or Industrial Open Pasture, Row Mining or Construct wel, isofated poots, no flow (Intermit- no water (Ephermerk)	Crop
	OPLAIN CUALITY  FLOODELAIN ( ODDELAIN ( CODELAIN ( Manageria)  Comparison ( Manageria)  Floid  Floid Floid  Floid Floid Floid  Floid Flo	mation must also be comp **NOTE:Filter.tef (L) and UAL ITV Predominant por Bank) # Felese, Weldand ure Forest, Shub or Old antial, Park, New Field d Pasture ************************************	Right (R) as tooking downstream 2 Conservation Tillage Urban or industrial Open Pasture, Row Mining or Construct wel, Isofated poots, no flaw (Intermitin no water (Ephermeral) box): 3.0	Crop
	OPLAIN OUALITY     FLOODPLAINT     FLOODPLAINT     I. Mass     I. Moss     Imma     Floid     Imma     Floid     Frence     Varbustion) (Check O     posis (Interstitial)     Is per 61 m (200 H) of     1.0	mation must also be comp WNOTE: Filter Left (L) and UAL ITY Predominant por Bank) F Celess, Wetkind antial, Park, New Field d Pasture VL Yone bodi: Moist Channel Dry channel channel; [Check CNLY one 2.0 2.5	Right (R) as tooking downstream Conservation Tillagy Urban or industrial Open Pasture, Row Mining or Construct wol, isolated pools, no flow (infermitin no water (Epherreral) box): 2.3	a Crop ion enl)

Stream 59 Good Warmwater	2		
shows the	Stream Drawing:		METHOD STAG
S - Company	ewing:		STAGE TE sampessa 2nd HIGH BIORMALL DRY
	ale fee	B) AESTHETIC Science Accore Devices Tradeory Devices Tradeory Devices Tradeory Devices Tradeory Devices Device	0000 - 2011 07-10-10
Al Fical	nin Leon	DJ MAINTENAANCE PUBLIC PRIVATE JOTH IM ACTURE HISTORIC POINT IM SCHWAS SUCCESSIONCED IN DIRECT IN MORE DATA IN DIRECT IN MORE DATA IN DIRECT IN MORE DATA IN DIRECT IN DIRECT IN DIRECT IN DIRECT IN DIRECT IN DIRECT IN DIRECT IN DIRECT IN DIRECT IN SCHWAS JOSCIAL SCHWAS JOSCIAL FLOOD CONTROL / DRAINAGE	
	×	Cirde same & COMMENT	
		ALMOSPHERE / DATA PAUCITY PROCESSION DATA PAUCITY PROC	
10-00-00		FI MEASURFEMENTS Events-)0' x depts-)0' reac.depts-24+ Eventseling bankfull stapst WD raise bankfull mar.depth floodpraw # width summer.inde Ls True:	

Stroom	603	Modified Class 2

	ADDITIONAL STREAM INFORMATION	Minis Information Must	Also be Completed):		
	QHEI PERFORMED?	res	(If Yes, Atlach Co	npiated GHEi Formj	
	DOWNSTREAM DESIGNAT	ED USE(S)			
	WWH Name:			ance from Evaluated Stream	
	CWII Nome:			ance from Evaluated Stream ance from Evaluated Stream	
	EWH Name				
		OF MAPS, INCLUDING TH	E ENTIRE WATERSHED ARE		2
	USGS Quadrargle Name		NRCS Soil Map Page	NRCS Soil Map Str	aam Order
	County: Franklin		ownship / City		
	MISCELLANEOUS				
	Base Flow Conditions? (Y/N):_ Y	Date of last procepitation,	c	basetity 0.00	
	Photograph Information: 2 photos				
	Elevated Turbidity? (Y/N):	Canopy (% open):	70%		
	Were samples collected for water chem	istry? (Y/N): N (No	to tab sample no. or id, and all	ach results} Lab Number	
			pH (S U )	Conductivity (µinhos/em)	
	ts the sampling reach representative of		not please cuplain		
	is the sampling reach representative of	ine biro ani (774) 1	nouploase repairing		
	Additional comments/description of pol	ulion impacts:			
	ID numb	er, Include appropriate liek in? (Y/N) N Salamand	uchar collections optional INO T d data sheets from the Primary H prs Observed? (Y/N) V squatic Macroinvertebrates Ob	eadwater Habitat Assessmen bucher? (Y/N)	e labeled with the sit I Manual) er? (Y/N)
	DRAWING AND NAM	RATIVE DESCRIPT	ION OF STREAM REAC	H (This must be com	pleted):
	Include Important Iandmasks at	d allier features of intere	at for site evaluation and a na	malive description of the s	traam's location
N	1- G	e			
		recently of	ut scrub/	10	55
hh-bao	-032415-04	shrub	i		3
	FLOW - SA	$\frown$	$\sim$	$\sim$	
	CEG 1	$\sim$	$\times$		4 ded
	existi	ng ROW			
	1	-			

nation 24, 2002, Wavisida

	1000 B			HHEI Score	(sum of metric	15 1, 2, 3] : Be
SITE NAME/L	SITE NUMBER		RIVERB	ABIN	DRAP	ACE AREA (mil)
LENGTH OF 8	TREAM REACH (th)	LAT	LO	NG. B	VER CODE	RIVER MILE
DATE 03/24				termittent; hh-b		
	npiste All items On This F					
STREAM CH MODIFICAT		parian cut		ECOVERED RE	COVERING 🗖 R	ECENT OR NO REC
1. 5085	TRATE (Estimate percent of	every type of s	ubstrate pre	sent. Chuck ONLY tw	predominant sub	strate TYPE boxes
	ef 32), Add total number of sign LDR SLABS (16 pts) OULDER (>256 mm) [16 pts]	PERCENT 0%		SILT [3 pt] LEAF PACKWOOD		PERCENT 40%
В	EDROCK [16 pt]	0%		FINE DETRITUS [	pts)	0%
	OBBLE (65-256 mm) [12 pts] RAVEL (2-64 mm) [9 pts]	2016		CLAY or HARDPAN MUCK [0 pts]	[0 pi]	0%
II s	AND (<2 mm) [6 pts]	25%		ARTIFICIAL [3 pls]		0%
Bidrs	Total of Percentages of Blabs, Boulder, Cobble, Bedroc	0.00%	(A)	1		(8)
	NO MOST PREDOMINATE SU		ES: 9	TOTAL NUMB	ER OF SUBSTRAT	E TYPES: 4
2. Maxb	num Pool Depth (Measure th	e maximum po	el depth with	nin the 61 meter (200	n) evaluation read	h at the time of
≥ 30 c	ation. Avoid plurige gools from entimeters (20 pts)	road cuiverts ge	statti valer	> 5 cm - 10 cm [15	i pts]	
> 22 5	- 30 cm (30 pts) 22.5 cm (25 pts)		ь	< 5 cm (5 pls) NO WATER OR N	DIST CHANNEL P	(gta)
	MENTS In Inches			MAXIMUM	POOL DEPTH (cer	timeters): 3
6. C.	FULL WIDTH (Measured as	the average of	3-4 measure	ments) (Che	ck ONLY one box	):
×4.0 s	n - 4 0 m (> 9' 7* - 13') [25 pts]			> 1.0 m - 1.5 m (> < 1.0 m (<=3' 3") [		
> 1.5 r	n - 3 0 m (> 9' 7* - 4' 8*) [20 pts]					-
COM	MENTS In feet		_	AVERAGE	BANKFULL WIDTH	l (meters): 2.00
	RIPARIAN ZONE AND FLOO		is informatio	on <u>must</u> also be com OTE: River Left (L) ar	ploted d Bight (B) as look	ing downstream@r
	RIPARIAN WIDTH	FLOODF	PLAIN QUALI			
	l (Per Bank) Wide >10m	ĽĎ	Mature Fore	ast. Welland		onservation Tillage
	Moderate 5-10m		Immature F Field	crest, Shrub or Old		rban or Industrial
				Park, New Field		pen Pasture, Row Cr
<b>·</b>	COMMENTS		Fenced Pas	lure		ining of Construction
8	FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS_intermitten	pools (Interstitia		Moist Cha	nnel, isolated pools al, no_water (Epher	, no flow (Intermitteni meral)
	SINUOSITY (Number of ben None		10 ft) of chann	2.0	e box):	3.0
	0.5	1.5		2.5		>3
STRE Flat to 5 h	AM GRADIENT ESTIMATE	a Mod	erale (211/100 h	Moderate	lo Severa	Severe 110 to
i iac (0.5 it						1007/N/1/2
	202407			Hall Come Dana 4		
Ocuber 34, 2002	Pavipus			IWH Form Page - 1		
						-
1 62, Modifi	THE REAL OF	A Hoadw	ater H	abitat Evalı	ation For	m 🚺
62, Modifi	<b>Primary</b>	A LICEON				
Chic	EPA Primary	y neadw			(sum of metri	ca 1, 2, 3) :

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions

regularly maintained lawn SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predomnant substrate TYPE (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B

(A)

Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 R) evaluation reach at the time of

This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ONOTE: Invertent (L) and Right (B) as looking downstreams FLOODPLAIN QUALITY

L R (Most Predominant per Bank) Mature Forest, Wetland Field

Fieldential, Park, New Field

Ferced Pasture

PERCENT

0% 0% 0% 20% 25%

is from toad pulverts or st

3. DANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 37) (30 pte) > 5.0 m → 4.0 m (> 77 - 4 °b') (32 pte) > 5.0 m → 0.0 m (> 77 - 4 °b') (20 pte)

SILT [3 pl] LEAF PACK/WOODY DEBRIS [3 pls] FINE DETRITUS [3 pls] CLAY or HARDPAN [0 pl]

Atter pipes) (Check ONLY one box): \* 5 cm - 10 cm [15 pts] < 5 cm [5 pts] NO WATER OR MOIST CHANNEL [0 pts]

TOTAL NUMBER OF SUBSTRATE TYPES: 4

MAXIMUM POOL DEPTH (contimeters): 1

Conservation Tillage

Conservation Tillage

Severe (10 tv 100 to

October 24, 2002 Revision

Open Pasture, Row Crop

Mining or Construction

AVERAGE BANKFULL WIDTH (meters): 1.00

PERCENT 40% 15% 0% 0%

016

(B)

SILT [3 pi] LEAF PACK/WOOD' FILE DETRITUS [3 CLAY or HARDPAN MUCK [0 pts] ARTIFICAL [3 pts]

STREAM CHANNEL MODIFICATIONS:

BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts] BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts]

Total of Percenlages of Bidr Slabs, Boulder, Cobbis, Bedrock

SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 9

GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts]

evaluation. Avoid plurge pr
 ≥ 30 centimeters [20 pts]
 ≥ 22.5 - 30 cm [30 pts]
 > 10 - 22.5 cm [25 pts]

COMMENTS In Inches

COMMENTS In feet

Narrow <5m 00

RIPARIAN WIDTH

Moderate 5-10m

(Per Bank) Wide >10m

٥d

2

	County: Franklin Township / City
	MOJELLANEUUJ
	Base Flow Conditions? (Y/N): Y Date of last precipitation: Ouentity: 0.00
	Photograph Information: 2 photos
	Protograph momauovY Ganopy (% open): 70%
	Provented Fundary (177), Calloby (vs.gom,) Were samples collected for water chemistry? (177); N (Note lab sample no. or id, and attach results) Lab Number,
	If not, please explaint
	Additional comments/description of pollution impacts
	BIOTIC EVALUATION
	Performed? (Y/N): (II Yes, Record all observations, Voucher collections optional. NOTE: all voucher samples must be table ID mmber, include appropriate field data sheets from the Primary Headwater Habital Assessment Manu
	Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N N Voucher? (Y/N) N N Voucher? (Y/N) N N N N N N N N N N N N N N N N N N
	Frogs or Tadpoles Observed? (Y/N), N Voucher? (Y/N), Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N)
	Commines Hogerong Boorgy
	DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be complete include important landmarks and effect features of interact for allo evaluation and a nerretive description of the stream
N	
1-bac	+032415-03
	$\cdot \Rightarrow \sim \land $
	FLOW
	(2G
	recently cut scrub/
	/ Ishrub
	existing ROW
	PHWH Form Page - 2 October 24, 2002 Bevision
-	Characterization and a second s
	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed);
	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed); QHEI PERFORMED? - Yes V No QHEI Score (IV Yes, Atlach Completed QHEI Form)
	OHEI PERFORMED? - Yos V No QHEI Scom (UYes, Attach Completed OHEI Form)
	CHEI PERFORMED? Vo CHEI Score (I/Yes, Atlach Completed GHEI Form) COWNSTREAM DESIGNATED USE(S) WWH Name Distance from Evaluated Stream CHAIN Ref
	CHEI PERFORMED? Vo CHEI Some (If Yes, Attach Completed GHEI Form) COWHSTREAM DESIGNATED USE(S) WWH Name: CWH Name CWH Name: Distance from Evaluated Stream EWH Name: Distance from Evaluated Stream
	CHEI PERFORMED? Vo CHEI Score (UYes, Attach Completed GHEI Form) COWNSTREAM DESIGNATED USE(S) WWH Name: CWH Name CHEN Name: CHEN NAME NAME NAME NAME NAME NAME NAME NA
	OHEI PERFORMED?       Yos       Yos       With Rame         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Shearn         CWH Name       Distance from Evaluated Shearn         CWH Name       Distance from Evaluated Shearn         Distance from Evaluated Shearn       Distance from Evaluated Shearn         MAPPING: ATTACH COPES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOC         USGS Oundrargie Name       NRCS Soli Map Page
	CHEI PERFORMED? Vo CHEI Score (UYes, Attach Completed GHEI Form) COWNSTREAM DESIGNATED USE(S) WWH Name: CWH Name CHEN Name: CHEN NAME NAME NAME NAME NAME NAME NAME NA
	OHEI PERFORMED?       Yes       No       QHEI Score       (II Yes, Allach Completed QHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         OWN Name       Distance from Evaluated Stream         OWN Name       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         MAPPING: ATTACH COPES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOC         USGS Oundrargie Mame       NRCS Soil Map Page         NRCS Soil Map Page       NRCS Soil Map Stream C         Country, Franklin       Township / City
	OHEI PERFORMED?       Yes       No       QHEI Score       (UYes, Attach Completed QHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         OWN Name:       Distance from Evaluated Stream         OWN Name:       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         MAPPING: ATTACH COPES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOC         USGS Oundrargie Mame       NRCS Soil Map Page         MISCELLANEOUS         Base Flow Conditions? (Y/N), Y       Date of last precipitation:
	OHEI PERFORMED?       Yes       No       QHEI Score       (UYes, Allach Completed QHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         OWN Rame       Distance from Evaluated Stream         OWN Rame       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         OWN Rame       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         Countrargie Name       Distance from Evaluated Stream         Countrargie Name       NRCS Soil Map Page       NRCS Soil Map Stream C         Country, Franklin       Township / City       MisCelLANEOUS         Base Flow Conditions? (Y/N), Y       Date of last precipitation:       Quantity:       0.00         Photograph Information;       2 photofe       Distance from Evaluated Stream
	OHEI PERFORMED?       Yes       No       OHEI Score       (I/Yes, Atlach Completed OHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         OWN Name:       Distance from Evaluated Stream         CWH Name:       Distance from Evaluated Stream         EWH Name:       Distance from Evaluated Stream         CWH Name:       Distance from Evaluated Stream         MAPPING: ATTACH COPES OF MAPS, INCLUDING THE ENTITE WATERSHED AREA. CLEAR Y MARK THE STEL LOC         USGS Coundrargie Name       NRCS Soil Map Page         MISCELLANEOUS       NRCS Soil Map Page         Base Flow Conditions; (YN), Y       Date of last precipitation;         Outantity; 0.00       Photoe         Elavaled Turbidity? (YN); Y       Canopy (% open);
	OHEI PERFORMED?       Yes       No       QHEI Score       (UYes, Allach Completed QHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         OWN Rame       Distance from Evaluated Stream         OWN Rame       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         OWN Rame       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         Countrargie Name       Distance from Evaluated Stream         Countrargie Name       NRCS Soil Map Page       NRCS Soil Map Stream C         Country, Franklin       Township / City       MisCelLANEOUS         Base Flow Conditions? (Y/N), Y       Date of last precipitation:       Quantity:       0.00         Photograph Information;       2 photofe       Distance from Evaluated Stream
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	OHEI PERFORMED?       Yes       No       OHEI Scom       (II Yes, Attach Completed OHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         OWN Rame       Distance from Evaluated Stream         Distance from Evaluated Stream       NRCS Soil Map Page       NRCS Soil Map Stream         Country, Franklin       Township / City       NRCS Soil Map Stream       Distance from Evaluated Stream         Base Flow Conditions? (YN), Y       Date of last precipitation:       Duantity:       0.00         Photograph Information:       2 Photoe       Elevaled Turbidity? (YN)       Y       Cancey (% open):       90%         Were samples collected for water chemistry? (YN):       N       (Note lab sample no. or id, and attach results) Lab Number:       Field Measures:       Temp (C)       Dissolved Oxyaan from the pH (S U)       Conductively (unthostrand)
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	GHEI PERFORMED?       Yes       No       GHEI Score       (If Yes, Attach Completed GHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         CVWN Name:       Distance from Evaluated Stream         CVWN Name:       Distance from Evaluated Stream         EWH Name:       Distance from Evaluated Stream         CVWN Name:       Distance from Evaluated Stream         CVWN Name:       Distance from Evaluated Stream         CWN Name:       Distance from Evaluated Stream         CWN Name:       Distance from Evaluated Stream         CWN Name:       Distance from Evaluated Stream         MAPPING: ATTACH COPES OF MAPS, INCLUDING THE ENTITE WATERSHED AREA. CLEARY MARK THE STEL OC         USGS Guardrargie Name       NRCS Soil Map Page       NRCS Soil Map Stream         MISCELLANEOUS       MisceELLANEOUS       MisceELLANEOUS         Base Flow Conditions? (YN), Y       Date of last precipitation:       Quantity:       0.00         Photograph Information:       2 photoe       Elevaled Tubitity? (YN);       No       Outer of last precipitation:       Quantity:       0.00         Photograph Information:       2 photoe       Elevaled Tubitity?       No       No       Disoble of last precipitation:       Quantity:       Disoble of last precipitation:       Quantity:       D
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	GHEI PERFORMED?       Yes       Yes       Yes       (If Yes, Attack Completed GHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         USGS Outdrangle Name       NRCS Soil Map Page       NRCS Soil Map Stream         County, Frankin       Township / Cftr,       MISCELLANEOUS         Base Flow Conditions:       2 Poticle       Elevaled Tublicity? (YN);       Quantity:       Qu
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	GHEI PERFORMED?       Vo       Vo       (If Yes, Attach Completed GHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         CWW Name       NRCS Soil Map Page       NRCS Soil Map Stream         USGS Oundrargle Name       NRCS Soil Map Page       NRCS Soil Map Stream         Coomity       Frankin       Township / Cftr       Ouanity         MISCELLANEOUS       Base Flooide       Elevaled Tublishy? (YN)       Quanity       Quanity       0.00         Photograph Information:       2 Photoe       Elevaled Tublishy? (YN)       Quanity?       Quanity?       0.00         Photograph Information:       2 Photoe       Elevaled Tublishy? (YN)?       Y       Cancey (K open)?       Office         Elevaled Tublishy?       Cancey (K open)?       Diseded doct oreversetis tuble stream       Dinumber:
	OHEI PERFORMED?       Voc       Voc       Voc       (If Yes, Attach Completed GHEI Form)         DOWNSTREAM DESIGNATEO USE(S)       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       NRCS Soil Map Page       NRCS Soil Map Stream C         Country, Franklin       Township / CSr.       Quanity       0.00         MisCELLANEOUS       Base Flow Conditions? (YN).       Date of fast precipitation:       Quanity       0.00         Photograph Information:       2 Photoe       Elavaled Turbistry? (YA):       N       (Note lab sample no. of Id. and attach results) Lub Number:         Field Measures:       Temp (YD)       Dissolved Oxyaan (moh       Dissolved Oxyaan (moh       Dissolved Oxyaan (moh         Is the sampling reach representative of the stream (YA)       N       (Note, picture)       Elavale not presentative of the stream (YA)       H tind, piease explaint </td
	GHEI PERFORMED?       Vo       Vo       (If Yes, Attach Completed GHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream         CWW Name       NRCS Soil Map Page       NRCS Soil Map Stream         USGS Oundrargle Name       NRCS Soil Map Page       NRCS Soil Map Stream         Coomity       Frankin       Township / Cftr       Ouanity         MISCELLANEOUS       Base Flooide       Elevaled Tublishy? (YN)       Quanity       Quanity       0.00         Photograph Information:       2 Photoe       Elevaled Tublishy? (YN)       Quanity?       Quanity?       0.00         Photograph Information:       2 Photoe       Elevaled Tublishy? (YN)?       Y       Cancey (K open)?       Office         Elevaled Tublishy?       Cancey (K open)?       Diseded doct oreversetis tuble stream       Dinumber:
	OHEI PERFORMED?       Voc       Voc       Voc       (If Yes, Attach Completed GHEI Form)         DOWNSTREAM DESIGNATEO USE(S)       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       NRCS Soil Map Page       NRCS Soil Map Stream C         Country, Franklin       Township / CSr.       Quanity       0.00         MisCELLANEOUS       Base Flow Conditions? (YN).       Date of fast precipitation:       Quanity       0.00         Photograph Information:       2 Photoe       Elavaled Turbistry? (YA):       N       (Note lab sample no. of Id. and attach results) Lub Number:         Field Measures:       Temp (YD)       Dissolved Oxyaan (moh       Dissolved Oxyaan (moh       Dissolved Oxyaan (moh         Is the sampling reach representative of the stream (YA)       N       (Note, picture)       Elavale not presentative of the stream (YA)       H tind, piease explaint </td
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	GHEI PERFORMED?       Yes       No       GHEI Score       (If Yes, Attach Completed GHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream       Distance from Evaluated Stream         CVWN Name:       Distance from Evaluated Stream       Distance from Evaluated Stream         CVWN Name:       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         CWN Name:       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         CWN Name:       Distance from Evaluated Stream         Distance from Evaluated Stream       NRCS Soil Map Page       NRCS Soil Map Stream         MISCELLANEOUS       MiscelLANEOUS       Date of last precipitation:       Durntity:       0.00         Pholograph Information:       2 Pholoe       Elevaled Turbitity? (VN);       N       Note lab sample no. or id, and aftach results) Lab Number:         Elevaled Turbitity?       YNI;       Canopy (% open);       90%       Stream Stream       Disobved Oxygen from perfect samples must be labely         Additional commentis/description of polidion impacts:       N       N       N       N       Stream         Biotic C EVALUATION       N       N       Outback: VNN_N       Vouchar? (VN)_N       Youchar? (VN)_N
	OHEI PERFORMED?       Voc       Voc       Voc       (If Yes, Attach Completed GHEI Form)         DOWNSTREAM DESIGNATEO USE(S)       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       Distance from Evaluated Stream         CWW Name       Distance from Evaluated Stream       NRCS Soil Map Page       NRCS Soil Map Stream         Country       Franklin       Township / Cfty       MISCELLANEOUS         Base Flow Conditions? (YN)       Date of fast precipitation:       Quanity       0.00         Photograph Information:       2 photoe       Elavaled Turbidity? (YN)       Quanity       0.00         Photograph Information:       2 photoe       Dissolved Oxyaer (map)       phif (S U)       Conductively (uninhorizing)         Base Flow Conditions?       Tomp (Y)       Dissolved Oxyaer (map)       phif (S U)       Conductively (uninhorizing)         Base Flow Conditional comments/description of polition impactes:       Dissolved Oxyaer (map)       phif (S U)       Conductively (uninhorizing)
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	GHEI PERFORMED?       Yes       No       GHEI Score       (If Yes, Attack Completed GHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream       Distance from Evaluated Stream         CWH Name:       Distance from Evaluated Stream       Distance from Evaluated Stream         CWH Name:       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         CWH Name:       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         Country, Franklin       NRCS Soil Map Page       NRCS Soil Map Stream         MISCELLANEOUS       Base Flow Conditions? (YN)       Date of last precipitation:       Durinity:       0.00         Pholograph Information:       2 Pholog       Elevaled Tublitity? (YN);       Y       Canopy (% open);       00%         Verse sampling coolected for water chamistry? (YN);       N       (Note lab sample no. of Id. and affach results) Lab Number:       Frist Massure:         Field Massure:       Targo (C)       Dissolved Oxygen (mon)       pl 18 (U)       Conductivity gimmolectrut)         Is the sampling reach mpresentative of the stream (YH)       If their, planase explaint       Elevaled Tublitity? (YN);       Vouchar? (YN);         Parformed? (YN);       N       (I) Vers, Record af observe
	GHEI PERFORMED?       Yes       No       GHEI Score       (If Yes, Attack Completed GHEI Form)         DOWNSTREAM DESIGNATED USE(S)       Distance from Evaluated Stream       Distance from Evaluated Stream         CWH Name:       Distance from Evaluated Stream       Distance from Evaluated Stream         CWH Name:       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         CWH Name:       Distance from Evaluated Stream         Distance from Evaluated Stream       Distance from Evaluated Stream         Country, Franklin       NRCS Soil Map Page       NRCS Soil Map Stream         MISCELLANEOUS       Base Flow Conditions? (YN)       Date of last precipitation:       Durinity:       0.00         Pholograph Information:       2 Pholog       Elevaled Tublitity? (YN);       Y       Canopy (% open);       00%         Verse sampling coolected for water chamistry? (YN);       N       (Note lab sample no. of Id. and affach results) Lab Number:       Frist Massure:         Field Massure:       Targo (C)       Dissolved Oxygen (mon)       pl 18 (U)       Conductivity gimmolectrut)         Is the sampling reach mpresentative of the stream (YH)       If their, planase explaint       Elevaled Tublitity? (YN);       Vouchar? (YN);         Parformed? (YN);       N       (I) Vers, Record af observe
	OHE JERFORMED?       Vo       Vo       OHE JScore       (If Yes, Attach Completed OHE Form)         OWNISTREAM DESIGNATED USE(S)       Distance from Evaluated Disease         OWNISTREAM DESIGNATED USE(S)       NRCS Soil Map Page       NRCS Soil Map Page         MAPPINC: ATTACH COPES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEAR V MARK THE STE LOC         USGS Oundrangle Name       NRCS Soil Map Page       NRCS Soil Map Straam         MISCELLANEOUS       Date of last precipitation:       Duanity:       D.00         Photograph Information:       2 Photog       Canopy (% open):       D05         Ware samples collected for water chamistry? (YAN):       N       (Note bis strupte no. rid, and attach results) Lab Number:         Enst Measures:       Tamp (C)       Dissolved Oxygen (man her phase struption)       Conductivity unmobilized         Is the sampling reach representative of the stream (YAN)       If thot, please struption       Conductivity unmobilized         BiOTIC EVALUATION       If the stream (YAN)       Voucher? (YN)       Voucher? (YN)       Voucher

PHWH Form Page - 2

Stream 61, Modified Class2

CWH Name:

USGS Quadrangle Name

ADDITIONAL STREAM INFORMATION (This Information Musi Also be Completed);

DOWNSTREAM DESIGNATED USE(S)

QHEI PERFORMED? . Yes V No QHEI Score (If Yes, Attach Completed QHEI Form)

MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA, CLEARLY MARK THE SITE LOCATION

NRCS Soll Map Page:

Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream

NRCS Soil Map Sheam Order

None COMMENTS FLOW REGIME (At Time of Evaluation) (Chock ONLY one bas): Stream Flowing Suburtation flow with isolated pools (Interstillial) Try channel, isolated pools, no flow (Intermittent) fray channel, no water (Eglecterate) Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Ξ 
 SINUOSITY (Number of bonds per 61 m (200 ft) of channel)
 (Check ONLY one box):

 None
 1.0
 2.0

 0.5
 1.5
 2.5
 3.0 >3 STREAM GRADIENT ESTIMATE Moderale (2 h/ 100 h) Moderale to Severe October 24, 2002 Revision PHWH Form Page - 1

			pe-Harrison	1		-		1
	OF STREAM R		LAT	LON	-	ERCODE	NINAGE AREA (mi <sup>r</sup> ) RIVER MILE	Ľ
DATE 0		SCORER BAO/			luation Manual for		Streams" for In	tuc
STREAM	CHANNEL	NONE /	NATURAL CHAI	NNEL CR	ECOVERED REC	OVERING 🗹	RECENT OR NO R	CON
1, S	UBSTRATE (E	stimate percent of	every type of s	ubstrate pres	ent, Check OWLY has	predominant su	Ibstrate TYPE boxes	
	BLDR SLAB		PERCENT 0%	e types found	(Max of 8) Final metrie	; score is sum o	PERCENT 40%	
	BOULDER (* BEDROCK	256 mm) (16 pis)	0%		LEAF PACK/WOOD FINE DETRITUS [3			
	COBBLE (65	-256 mm) [12 pls] 54 mm) [9 pts]	0% 15%	88	CLAY or HARDPAN MUCK [0 pts]	(0 pt)	0%	Ir
	SAND (<2 m	m) [6 pts] ercentages of	30%	(A)	ARTIFICIAL [3 pls]		(B)	1
	Idr Slabs, Bould	der. Cobble, Bedroci PREDOMINATE SU		10	TOTAL NUMBE	R OF SUBSTR/	ATE TYPES: 4	
2. N	laximum Pool valuation Avoid	Depth (Measure In I plunge pools from	e maximum po road culverts of	of depth with plarm water p	in the 61 meter (200 i ipst) (Check ONLY	one box	ich at the time of	1
	30 centimaters 22.5 - 30 cm [3 10 - 22.5 cm [2	() pls]		É	> 5 cm - 10 cm [15 < 5 cm [5 pts] NO WATER OR MC		(0 pts)	lſ
	OMMENTS I					DOL DEPTH (c		
	4 0 motors (> 13	DTH (Measured as ') [30 pia]	the average of		> 1.0 m - 1.5 m (> 3			1
	1,5 m - 3,0 m (>	9' 7" - 13") [25 pts] 9' 7" - 4" 0") [20 pts]		2	. 10 m (<=3' 3*) [5	pls)	T	1
c	OMMENTS IN	feet	_		AVERAGE B	ANKFULL WID	TH (meters): 1.00	H
		N ZONE AND FLOO	DDPLAIN QUAL	.ITY ☆NC	n must also be comp DTE: River Left (L) and	elled Right (R) as loc	oking downstream Ar	
		AN WIDTH iank)		Most Predo	<u>'Y</u> minant p <del>o</del> r Bank)	LR	Conservation Tillage	
Ľ		>10m ale 5-10m		Mature Fore Immature Fo Field	rest, Shrub or Old		Urban or Industrial	
	Narron	v <5m		Residential, Fenced Pasl	Park, New Field	88	Open Paslure, Row Mining or Construct	
	COMME	NTS EGIME (At Time of	Evaluation 10					
E	Siream Fi Subsurfac	owing ce flow with isolated			Moist Chan	nel. isolated poo . no water (Eph	ds. no flow (Intermit) temer <u>al)</u>	ant)
	SINUDS	NTS_ophemeral		0 h) of channe	) (Check ONLY one	box):		1
E	None 0.5		1.0		2.0	Н	3.0 >3	
	alo							
Flat :	TREAM GRAD	IENT ESTIMATE Fial lo Moderato	Mode	erale (2 h ico m	Moderate	to Severe	Severe un	à 100
64, Mo	dified Clas	Flat to Moderate	y Headw	рн vater Ha	UMH Form Page - 1 WH Form Page - 1 abitat Evalu HHEI Score	ation Fo	orm	
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ADDITIONAL STREAM INFORMATION (This Informatio	
CHORING STREAM INCOMMATION TIME MORNING	on Must Also be Completed):
QHEI PERFORMED? - Yes V No OHE	I Score (II Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWM Name	Distance from Evaluated Stream Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
MAPP(NG: ATTACH COPIES OF MAPS, INCLU	IDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name	NRCS Soil Map Page: NRCS Soil Map Stream Order
County	Township / City
MISCELLANEOUS	(on only ) only
	Outputty: 0.00
Base Flow Conditions? (Y/N): Y Date of last preci	Gamesy.
Photograph Information: 2 photos	90%
Elevated Turbidity? (Y/N): Y Canopy (% open	en):
Were samples collected for water chemistry? (Y/N):	(Note lab sample no_or id, and attach results) Lab Number:
Field Measures Temp (*C) Dissolved Drype	n (mails (R.U.) Conductivity (µmhos/cm)
is the sampling reach representative of the stream (YM)	Maint, please explain:
Additional comments/description of pollution impacts	
pasture runoff, siges concerns	
BIOTIC EVALUATION	
Performed? (Y/N) N (ii) Yes, Record all observal	lions. Voucher collections optional. NOTE: all voucher samples must be laboled with the site
ID number, include approp	priate field data shoels from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) N Site Frage or Technics Observed? (Y/N) N Site Frage or Technics Observed? (Y/N) Voucher? (Y/N)	alamanders Observed? (Y/N) N Voucher? (Y/N) N N) N_ Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N
Comments Regarding Biology	N Advance macrointenteoratios observedi (1111)
	CRIPTION OF STREAM REACH (This <u>must</u> be completed): of interest for alle evaluation and a narrative description of the stream"s location
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Occeser 77, 2002 Revision         64, Modified Class 2         ADDITIONAL STREAM INFORMATION (Tols Information (Tols Information))         OHEL PERFORMED7 - Yes V NO CHE         DOWNSTREAM DESIGNATED USE(S)         YWWH Name:         WWWN THAme:         WAPPING: ATTACH COPES OF MAPS, INCLU         USGS Condragia Name:         County:       MacPing: ATTACH COPES OF MAPS, INCLU         USGS Condragia Name:         County:       Miscell ANEOUS         Base Flow Conditions? (Y/N): Y       Date of last pier         Photograph Information:       2 Photos         Elevated Turbidky? (Y/N): Y       Date of last pier         Piedd Measures:       Tomp (*)         Dissulved Oxyge       Is the sampling reach representative of the Stream (Y/N)         Additional comments/description of pollution impacts:       agrunoft, algea concerns         BIOTIC EVALUATION       In unitier: instude approx         Performed? (Y/N): N       (1 Yes, Record all observe)	sn Must Also to Completenti Ei Scolo (IT res. Attach Completenti GHEI Furn.) Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream UDING THE ENTIRE WATERSHED AREA. CLEARLY WARK THE SITE LOCATION NRCS Soil Map Page NRCS Soil Map Stream Orde: Tourship / Gig ophtation: Ouanity 0.00 (Note lab sample no. or id, and allach results) Lab Number: Ouanity 0.00 (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: (Note lab sample no. or id, and allach results) Lab Number: 
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DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed): Indude impostant landmarks and dhar fedures of interest for ello evaluation and a survative description at the ellower's location N

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October 24 2002 Revision

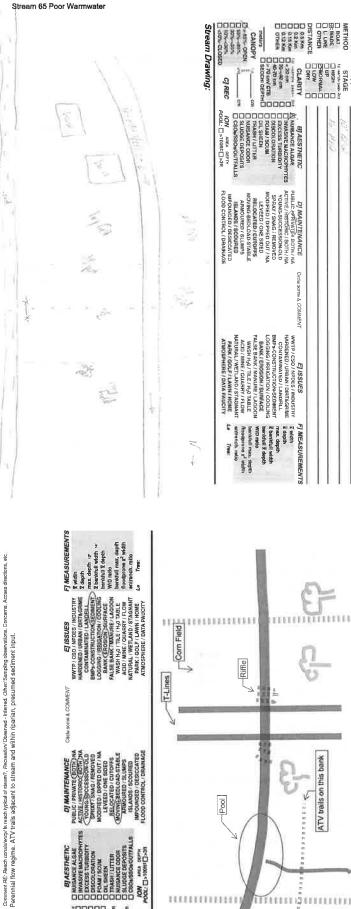
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October 24, 2002, Revision

Iream & Location: All	Munice and More RM: Date: 021 221 \$6
N. Therese Ro	Scorers Full Name & Attillation:
liver Cotte:	STORET #: Lat/Long.:
BEST TYPES POOL R	THE OTHER TYPES POOL RIFFLE ORIGIN QUALITY
BLDR (SLABS [10] BOULDER (9)	CINESTONE [1]      MODERATE [-1] Substrate
CI COBBLE (0)	
] [] BEDROCK [6]	(Score related substaties; ignore a dic more (2) studge from point-sources) LACUSTURINE (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
	STO or less (0) SHALE [-1] INONE (1)
Comments	COAL FINES [-2]
I INSTREAM COVER Index Justie Justier, 3-M ghest guality in moder annulle tog that is stable, with the UNDERCUT HANKS [1] 2 OVERHANGING VEGETATI SHALLOWS IN SLOW WAT ROCTWATS [1] comments	
SINUOSITY DEVELOP	Y Creck ONE in such category (Or 2 & average) MENT CHANNELIZATION STABILITY
HIGH [4] DEXCELLE	ENT 171
MODERATE [3] GOOD [6]	) RECOVERED [4] XI MODERATE [2] A RECOVERING [3] D LOW [1]
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1 BANK FROSION AND BI	IMAHIAN ZONE GRECK UNE In each category for EACH BANK (Cr 2 per hank & average)
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	RIPARIAN WIDTH FLOOD PLAIN QUALITY WODE>500 (4) GOREST SWAMP [3] GOREST S
BANK EROSION AND RI TO ROSION CONTRACTOR MODERATE (2) CONTRACTOR MODERATE (2) CONTRACTOR HEAVY/SEVERE (1) CONTRACTOR CONT	RIPARIAN WJDTH       FLOOD PLAIN QUALITY         WODE>Som (4)       FOREST, SWAME [5]         MODERATE 10-50m [3]       BRHUB OR OLD FIELD [2]         MODERATE 10-50m [3]       BRHUB OR OLD FIELD [2]         MODENTE 10-50m [2]       BRESIDENTIAL, QARK, NEW FIELD [1]         MARROW < 50m [2]       BRESIDENTIAL, PARK, NEW FIELD [1]         MONE (0)       OPEN DASTURE, ROWCROP [0]
BANK FROSION AND RI EROSION (DI NONE / LITTLE (8) DI MODERATE (2) DI HEAVY / SEVERE (1) DI HEAVY / SEVERE (1)	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE>som (i)       BRNUE of OCEST, SWAMP [S]         WODENTE (ID-Som (a))       BRNUE of OLD FIELD [2]         MORANCE STEREMENT, PARK, NEW FIELD [1]       MIRAN CONSTRUAL (0)         NARROW 5-1001 [2]       PENCED PASTURE [1]         VERY NARROW - Sm (1)       PENCED PASTURE [1]         INNNE (0)       OPEN PASTURE [1]         INNE (0)       OPEN PASTURE [1]
ANK EROSION AND RI CONTRACTOR AND RIFE CONTRACTOR AND RIFE CONTRACTOR AND RIFE CONTRACTOR AND RIFE CONTRACTOR AND RIFE CONTRACTOR AND RIFE	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE > Som (4)       B FOREST, SWAMP [5]         WODE > Som (2)       B SHAUB OR OLD FIELD [2]         WODE > Som (1)       B SHAUB OR OLD FIELD [2]         WODE > Som (1)       B SHAUB OR OLD FIELD [2]         WODE > Som (1)       B SHAUB OR OLD FIELD [2]         WODE > Som (1)       B SENDENTIAL FOR STURE [1]         WONE (0)       B SENDENTIAL FOR STURE [1]         WONE (1)       B SENDENTIAL FOR STURE [1]         WONE (1)       B SENDENTIAL FOR
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	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE > Som (i)       BHNUB O ROEST, SWAMP [S]         WODE > Som (i)       BHNUB O ROEST, SWAMP [S]         WODE > Som (i)       BHNUB O ROEST, SWAMP [S]         WODE > Som (i)       BHNUB O ROEST, SWAMP [S]         WODE > Som (i)       BHNUB O ROEST, SWAMP [S]         WODE > Som (i)       BHNUB O ROEST, SWAMP [S]         WODE > Som (i)       BENCED PASTURE [I]         NONE (i)       DEPEN PASTURE [NOWCROP (i))         VERY NARROW < Sm (i)
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I BANK SPOSION AND FI           Arr EROSION           BINONE, UTTLE [3]           I MODEDRATE [2]           I MODERATE [2]           I MEAVY SEVENTS           Ommennis           I POOL / GLIDE AND RIFF           MAXIMUM DEPTH           Onext ONE (NOV Y)           Onext ONE (NOV Y)           O D.7-ctin [1]           D 2-2-dim [1]	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE > Som (4)       Brenest, Swamp [5]         WODE > Som (2)       Brenest, NEW PELD [1]         WORK NAROW < Sm (1)
I BANK SROSION AND RI           IVE ROSION           IVE ROSION           IVE ROSION           IVE NOTE	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE>Som (4)       BRHUE ON CLO FIELD [2]         MODES TS (MARD)       BRHUE ON CLO FIELD [2]         MODE ST (15-00m) [3]       BRHUE ON CLO FIELD [2]         MODE ST (15-00m) [3]       BRHUE ON CLO FIELD [2]         VERY NARROW S-100m [2]       BENCED PASTURE [1]         VERY NARROW S-500 [1]       BENCED PASTURE [1]         NONE (0)       DEFNCED PASTURE [1]         DEFNCED PASTURE [1]       Indicate predominant land using(2)         VERY NARROW - 500 [1]       DEFNCED PASTURE [1]         DEVENDER (1)       DEFNCED PASTURE [1]         DEVENDER (1)       DEFNCED PASTURE [1]         DEVENDER (1)       DEVENDER [1]
I BANK SPOSION AND RI           AND FROSION           DI NONE JUTTE (8)           DI OL JUTE AND RIFT           Check ONE (ONLY)	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE > Som (4)       BHNUB O REST, SWAMP [5]         WODE > Som (3)       BHNUB O ROLD FIELD [2]         WODE > Som (3)       BHNUB O ROLD FIELD [2]         WODE > Som (3)       BHNUB O ROLD FIELD [2]         WODE > Som (3)       BHNUB O ROLD FIELD [2]         WODE > Som (3)       BHNUB O ROLD FIELD [2]         WERN NARROW > Som (1)       PENCED PASTURE (1)         WERN NARROW > Som (1)       DOPEN PASTURE (1)         NONE (0)       DOPEN PASTURE (1)         DOMEN AGENER       MONGOROP (0)         WIDTH > RIFFLE WIDTH (2)       CURRENT VELOCITY         Dack ALLING Lapty       Oncek ALLING Lapty         DUWIDTH > RIFFLE WIDTH (1)       TORRENTIAL (1)         DUWIDTH > RIFFLE WIDTH (1)       ORGENTAL (1)         MODERATE (1)       DOUBTS (1)         Indicate for feature - apoly and fifther       Correction Potential         DL WIDTH > RIFFLE WIDTH (2)       TORRENTIAL (1)         Indicate for feature - apoly and fifther       Correction Potential         DL WIDTH > RIFFLE WIDTH (2)       For apoly and fifther         ModeRATE (1)       EODIG REST (1)         Indicate for feature - apoly and fifther       Correction Potential         DL WIDTH > RIFFLE WIDTH (2)       Fore
] BANK SPOSION AND FIL IN ERGSION	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE > Som (i)       B SHNUB OR OLD FILL D[]         MORRAW STE US-Som (i)       B SHNUB OR OLD FILL D[]         MORRAW STE US-Som (i)       B SHNUB OR OLD FILL D[]         MORRAW STE US-Som (i)       B SHNUB OR OLD FILL D[]         MORRAW STE US-Som (i)       B SHNUB OR OLD FILL D[]         WERN NARROW S-WITH       B SEIDENTAL, ROW KROPO [0]         VERN NARROW - Sm (i)       B FENCED PASTURE, ROWCROP [0]         VERN NARROW - Sm (i)       B FENCED PASTURE, ROWCROP [0]         VERN NARROW - Sm (i)       D OPEN PASTURE, ROWCROP [0]         VERN NARROW - Sm (i)       D OPEN PASTURE, ROWCROP [0]         VERN NARROW - Sm (i)       D OPEN PASTURE, ROWCROP [0]         VERN NARROW - Sm (i)       D OPEN PASTURE, ROWCROP [0]         VERN NARROW - Sm (i)       D OPEN PASTURE, ROWCROP [0]         VEND NE, REFLE WIDTH [1]       CURRENT VELOCITY TORKENT LE [1] SEOW [1]         DUWDTH - RIFFLE WIDTH [1]       TORKENT LE [1] SEOW [1]         DUWDTH - RIFFLE WIDTH [1]       D OPEN PAST [1]         DUWDTH - RIFFLE WIDTH [1]       PAST [1]         DUWDTH - RIFFLE WIDTH [1]       D OPEN PAST [1]         DUWDTH - RIFFLE WIDTH [1]       D OPEN PAST [1]         DUWDTH - RIFFLE WIDTH [1]       D OPEN PAST [1]         DUWDTH - RIFFLE
] BANK EROSION AND RI THE ROSION () EROSION () NONE JUTTE (8) () NONE JUTTE (8	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE>Som (4)       BRHUE ON CLO FILL DISINGLAD (1)         MOREST SWARD       BRHUE ON CLO FILL DISINGLAD (1)         MOREST SWARD       BRHUE ON CLO FILL DISINGLAD (1)         MORENTS UP-Som (3)       BRHUE ON CLO FILL DISINGLAD (1)         MORENTS UP-Som (3)       BRHUE ON CLO FILL DISINGLAD (1)         VERY NARROW - Sim (1)       BRHUE ON CLO FILL DISINGLAD (1)         VERY NARROW - Sim (1)       BRHUE ON CLO FILL DISINGLAD (1)         MORE (0)       DEFINICED PASTURE (1)         MORE (0)       DEFINICED PASTURE (1)         DOREN TALL (1)       DOREN TALL (1)         DOREN TALL (1)       CURRENT VELOCITY         Chack ALL maj capty       Conck ALL maj capty         DUMDTH - RIFFLE WIDTH (2)       CORRENTIAL (1)         DUMDTH - RIFFLE WIDTH (2
I BANK EROSION AND RI           Arr EROSION           BANKE SPOSION           BINONE JUTTE [8]           I MODEJATE [2]           HEAVY ISEVENT [2]           HEAVY ISEVENT [2]           Ommenia           FOOL / GLIDE AND RIFF           MAXIMUM DEPTH           Check ONE (NV17)           Check ONE (NV17)           Check ONE (NV17)           Check ONE (NV17)           Comments           Indicate Jor Lune [1]           0 0.0-m [1]           0 0.0-m [1]           Onther [1]           Indicate Jor Lune [1]	RIPARIAN WIDTH       FLOOD FLAIN QUALITY         WODE > Som (1)       B SHRUB OR OLD FIELD [2]         MORRAW STE US-Som (2)       B SHRUB OR OLD FIELD [2]         MORRAW STE US-Som (2)       B SHRUB OR OLD FIELD [2]         MORRAW STE US-Som (2)       B SHRUB OR OLD FIELD [2]         MORRAW STE US-Som (2)       B SEDENTAL, ROK NEW FIELD [1]         NORE (3)       B SHRUB OR OLD FIELD [2]         VERY NARROW - Sm (1)       B FENCED PASTURE, ROWCROP (9)         VERY NARROW - Sm (1)       B FENCED PASTURE, ROWCROP (9)         VERY NARROW - Sm (1)       B FENCED PASTURE, ROWCROP (9)         VERY NARROW - Sm (1)       B CORRAULE, NUMCROP (9)         VERY NARROW - Sm (1)       B CORRAULE, NUMCROP (9)         Marking (1)       CURRENT VELOCITY         CHARNOT - RIFFLE WIDTH (1)       CURRENT VELOCITY         D Core A Avrange)       TORREATE (1)         D CORRATE (1)       B DOUBER (1)         L WIDTH - RIFFLE WIDTH (9)       CORRATE (1)         L WIDTH - RIFFLE WIDTH (9)       CORRATE (1)         L WIDTH - RIFFLE MUDTH (1)       L CORRATE (1)         L WIDTH - RIFFLE MUDTH (1)       L CORRATE (1)         L WIDTH - RIFFLE (1)       L CORRATE (1)         L WIDTH - RIFFLE (1)       L CORRATE (1)         L WIDTH - RIFFLE (1)
BANK EFOSION AND FI           Arr EROSION           BY           BONNE, UTTLE (8)           Image of the angle o	RIPARIAN WIDTH       FLOOD FLAIN QUALITY         WODE > Som (1)       BHNUE ON CDF FLO [2]         MORANTE 10-50m (2)       BSHNUE ON CDF FLO [2]         MORANTE 10-50m (2)       BSHNUE ON CDF FLO [2]         MARROW 5-10m (2)       BSENDENTAL, ROW NELD [1]         MONE X60M (2)       CURRENT VELOCITY         Deck ALL mal suppy       DONERATE [1]         MONE X60M (2)       DONERTAL [1]         MUDTH > NIFFLE WIDTH [2]       TORRENTAL [1]         MONDERATE [1]       INTERSTITUL [1]         MUDTH > NIFFLE WIDTH [2]       TORRENTAL [2]         MUDTH > NIFFLE WIDTH [2]
	RIPARIAN WIDTH       FLOOD FLAIN QUALITY         WODE > Som (1)       B SHRUB OR OLD FIELD [2]         MORRAW STE UP-Som [3]       B SHRUB OR OLD FIELD [2]         MORRAW STE UP-Som [3]       B SHRUB OR OLD FIELD [2]         MORRAW STE UP-Som [3]       B SHRUB OR OLD FIELD [2]         WERN NARROW S-WILD [2]       B SEDENTAL, ROK NEW FIELD [1]         NONE (0)       B STRUBE, ROWCROP [0]         VERN NARROW - Sm [1]       B FENCED PASTURE, ROWCROP [0]         NONE (0)       B STRUBE, ROWCROP [0]         Deck ALL, theil script       CURRENT VELOCITY         CHANNOL - RIFFLE WIDTH [1]       CURRENT VELOCITY         Deck ALL, theil script       CORACT [1]         DODERART [1]       CURRENT VELOCITY         Deck ALL, theil script       CORACT [1]         DODERART [1]       CURRENT VELOCITY         Deck ALL, theil script       Contact [1]         DODERART [1]       DODERART [1]         DO
	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE > Son (i)       BHUB O ROLD FIELD [2]         MORANTE US-50m (3)       BHUB O ROLD FIELD [2]         MORANTE US-50m (3)       BHUB O ROLD FIELD [2]         WERN NARROW > Son (2)       BESIDENTIAL, PARK, NEW FIELD [1]         NARROW > Son (2)       BESIDENTIAL, PARK, NEW FIELD [1]         WERN NARROW > Son (2)       BESIDENTIAL, PARK, NEW FIELD [1]         NONE (0)       OPEN PASTURE (ROWGROP (0)         VERY NARROW - Son (1)       DORENTALE, (1)         NONE (0)       CHANNEL WIDTH         DECK ALLING LADY       CURRENT VELOCITY         CHANNEL WIDTH       CURRENT VELOCITY         Dack ALLING LADY       CURRENT (1)         DUNIDTH > RIFFLE WIDTH (2)       TORRENTIAL (1)         Indicate for feature word for an end of the son one of the son o
EANK EROSION AND RI EROSION     Comparison of the second secon	RIPARIAN WIDTH       FLOOD PLAIN QUALITY         WODE > Som (i)       BHUB O ROLD FIELD [2]         MORANTE US-50m (3)       BHUB O ROLD FIELD [2]         MORANTE US-50m (3)       BHUB O ROLD FIELD [2]         WERN NARROW > Som (1)       BENCED PASTURE (NOWCROP (0)         VERN NARROW > Som (1)       BENCED PASTURE (1)         NONE (0)       CHANNEL WIDTH         CHANNEL WIDTH       CURRENT VELOCITY         Dack ALL maj acopy       Markan Conserved Con

Stream & Location: Good H	ope-Harrison, QH-MDT-032416-	-01 RM	Date: 03/2	4/16
Matl Thomayer/Brian Robertson	Scorers Fu	Il Name & Attiliation: AE	COM	
River Code:	STORET #:	at./Long.:		Accestion
BEST TYPES POOL RI	FLE OTHER TYPES POOL RIFE		Or 2 & avorage) QUALITY	
		UWETLANDS (0)	SILT MODERATE (	
SAND [6]	ARTIFICIAL [0]     (Score natural substrates: ig	SANDSTONE [0]	DEONE MODERATE	-1] Maximum
NUMBER OF BEST TYPES:	(Score natural substrates: Ig or more [2] sludge from point-sources or less [0]	ces) LACUSTURINE [0]	DEDINE (1) DEDINE (1) DEDINE (1) DEDINE (1)	20
Commenta	a or tess [u]	COAL FINES [-2]	E HONE [1]	
diamoter log that in stable, well down diamoter log that in stable, well down 2. UNDERCUT BANKS [1] OVERNANGING VEGETATIC SHALLOWS (IN SLOW WAT) 1. ROOTMATS [1]		II amounts of il mere common of quality or in small amounts of hi uniters in deep or hast water, lang ees, will defined, functional poes OXBOWS, BACKWATERS [ AQUATIC MACROPHYTES LOGS OR WOODY DEBRIS	EXTENSIVE >75 1] [2] MODERATE 25-1 [1] [3] SPARSE 6-25% [1] [3] NEARLY ABSEN	( average) % [11] %% [7] [3] T <5% [1]
Comments			- Andre	20
HIGH [4]     DECELLER     MODERATE [3]     D GODD [6]     LOW [2]     LOW [2]     NONE [1]     Comments	RECOVERED [4]     RECOVERING [3]     RECENT OR NO RECOVER		Mast	
River right tooking downstream	/IDE > \$0m [4] IODERATE 10-50m [3] ARROW 5-10m [2] ERY NARROW < 5m [1] C FENCE	LOOD PLAIN QUALITY ST, SWAMP [3] 3 OR OLD FIELD [2] ENTIAL, PARK, NEW FIELD [1] D PASTURE [1]	CONSERVATION TI URBAN OR INDUST MINING / CONSTRU	INTERNAL (0)
Comments T-Line ROW over	erhead with young growth establ	ished in ROW and 2nd Gr	Mad	
		and the second	-	tential
MAXIMUM DEPTH Check ONE (ONLY) Ch	CHANNEL WIDTH C eck ONE (Or 2 & average)	CURRENT VELOCITY Check ALL that apply	Primary Col	ntact
MAXIMUM DEPTH Check ONE (ONLY) Ch ⇒ 1m [6] □ POOL □ 0.7~(1m [4] □ POOL □ 0.4~0.7m [2] □ POOL □ 0.2~0.4m [1]	CHANNEL WIDTH C ack ONE (Or 2 & average) WIDTH> RIFFLE WIDTH[2] TORR WIDTH> RIFFLE WIDTH[1] VERY WIDTH> RIFFLE WIDTH[1] VERY WIDTH> RIFFLE WIDTH[1] MODI	Chack ALL that apply IENTIAL [-1] SLOW [1] (FAST [1] INTERSTITIAL [1] INTERSTITIAL INTERMITTEN ERATE [1] EDDIES [1]	[-1] F [-2]	ontact
Check ONE (ONLY) Ch □>1m [6] □ POOL □0.7~c1m [4] □ POOL □0.4~a0.7m [2] □ POOL □0.2~c0.4m [1] □ < 0.2m [0]	CHANNEL WIDTH C ack ONE (Or 2 & average) WIDTH> RIFFLE WIDTH[2] TORR WIDTH> RIFFLE WIDTH[1] VERY WIDTH> RIFFLE WIDTH[1] VERY WIDTH> RIFFLE WIDTH[1] MODI	Check ALL that apply RENTIAL [-1] 2 SLOW [1] (FAST [1] DINTERSTITIAL (1) DINTERMITTEN	[-1] F [-2]	mpic
MAXIMUM DEPTH           Check ONE (2011)         Ch           □ > Im [6]         DOQL           □ 0.7-cm [3]         DOQL           □ 0.7-cm [3]         DOQL           □ 0.4-cm /m [3]         DOQL           □ 0.4-cm /m [3]         DOQL           □ 0.2-cm /m [3]         DOQL           □ 0.4-cm /m [3]         DOQL <tr< td=""><td>CHANNEL WIDTH CO ACONE (C): 2 a survega) WIDTH-SHEFLE WIDTH (1] CORM WIDTH-SHEFLE WIDTH (1) VERY WIDTH-SHEFLE WIDTH (1) A KAT MADE AND A SHEFLE WIDTH (1) A KAT MADE AND A SHEFLE (1) A MADE Check ONE (C): 2 A UN DEPTH INFLE (1) A MADE MADE AND A SHEFLE (1) A MADE MADE AND A SHEFLE (1) A MADE MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE AND A SHEFTLE (1) A</td><td>Check ALL that apply ENTRAL [-1] BLOW [1] FAST [1] INTERSTITIAL [1] INTERMITTEN ENTE [1] EDDIES [1] Call for each - pools and online. B enough to support a pro a survege). N SUBSTRATE RIFFLE Table. Boardee [2]</td><td>Primary Co Secondary C Secondary C Cu Cu Main opulation No RIFF / RUN EMBEDDEDN NONE[2]</td><td>LE [metric=0]</td></tr<>	CHANNEL WIDTH CO ACONE (C): 2 a survega) WIDTH-SHEFLE WIDTH (1] CORM WIDTH-SHEFLE WIDTH (1) VERY WIDTH-SHEFLE WIDTH (1) A KAT MADE AND A SHEFLE WIDTH (1) A KAT MADE AND A SHEFLE (1) A MADE Check ONE (C): 2 A UN DEPTH INFLE (1) A MADE MADE AND A SHEFLE (1) A MADE MADE AND A SHEFLE (1) A MADE MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A MADE AND A SHEFTLE (1) A MADE A MADE AND A SHEFTLE (1) A	Check ALL that apply ENTRAL [-1] BLOW [1] FAST [1] INTERSTITIAL [1] INTERMITTEN ENTE [1] EDDIES [1] Call for each - pools and online. B enough to support a pro a survege). N SUBSTRATE RIFFLE Table. Boardee [2]	Primary Co Secondary C Secondary C Cu Cu Main opulation No RIFF / RUN EMBEDDEDN NONE[2]	LE [metric=0]
Imaximum DePTH           Check ONE (ONLY)           Check ONE (ONLY)           OT=tim [6]           DOL           Od-adzm [2]           DOL-dzm [1]           Commonits           Commonits           Indicate for functional riot of fifte-obligate species           RIFFLE DEPTH           Destrafieds toom [1]	CHANNEL WIDTH C CONF (C): 24 survegg) WIDTH-SHEFLE WIDTH (1] CONF WIDTH-SHEFLE WIDTH (1] C VERY WIDTH-SHEFLE WIDTH (1] C MOD MOD Hold Hilds; Best areas must be large Check ONE (C): 2 UN DEPTH HIFFLE (2) C AU MINUM - Scoren (2) STABLE (4) C XIMUM - Scoren (1) C MOD. STABLE (	Check ALL that apply ENTRAL [-1] BLOW [1] FAST [1] INTERSTITIAL [1] INTERMITTEN ENTE [1] EDDIES [1] Call for each - pools and offlies e enough to support a pro a survege). N SUBSTRATE RIFFLE Table. Boardee [2]	Primary Co. Secondary Co. Secondary Co. Secondary Co. Mai f (4) Population INO RIFF / RUN EMBEDDEDN HONE R3 UNONE R3	LE (metrice0)
MAXIMUM DEPTH           Check ONE (2011)         Ch           □ > Im [6]         DOQL           □ 0.7-cm [3]         DOQL           □ 0.7-cm [3]         DOQL           □ 0.4-cm /m [3]         DOQL           □ 0.4-cm /m [3]         DOQL           □ 0.2-cm /m [3]         DOQL           □ 0.4-cm /m [3]         DOQL <tr< td=""><td>CHANNEL WIDTH C CONF (C): 24 survegg) WIDTH-SHEFLE WIDTH (1] CONF WIDTH-SHEFLE WIDTH (1] C VERY WIDTH-SHEFLE WIDTH (1] C MOD MOD Hold Hilds; Best areas must be large Check ONE (C): 2 UN DEPTH HIFFLE (2) C AU MINUM - Scoren (2) STABLE (4) C XIMUM - Scoren (1) C MOD. STABLE (</td><td>Check ALL that apply IEHTAL (-1) SLOW (1) FAST (1) INTERBITTAL (1) INTERBITTAL INTERBITTAL ERATE (1) ED00ES (1) all a lor reach - pools and ritike. Benough to support a pr a urorago). N SUBSTRATE RIFFLE obbie, Souther(2) so_, Largo Gravel(1)</td><td>F(-1) F(-2) F(</td><td>LE (metrice0)</td></tr<>	CHANNEL WIDTH C CONF (C): 24 survegg) WIDTH-SHEFLE WIDTH (1] CONF WIDTH-SHEFLE WIDTH (1] C VERY WIDTH-SHEFLE WIDTH (1] C MOD MOD Hold Hilds; Best areas must be large Check ONE (C): 2 UN DEPTH HIFFLE (2) C AU MINUM - Scoren (2) STABLE (4) C XIMUM - Scoren (1) C MOD. STABLE (	Check ALL that apply IEHTAL (-1) SLOW (1) FAST (1) INTERBITTAL (1) INTERBITTAL INTERBITTAL ERATE (1) ED00ES (1) all a lor reach - pools and ritike. Benough to support a pr a urorago). N SUBSTRATE RIFFLE obbie, Souther(2) so_, Largo Gravel(1)	F(-1) F(-2) F(	LE (metrice0)
MAXMUM DEPTH Check ONE (ONLY)         Check ONE (ONLY)           Check ONE (ONLY)         Check ONE (ONLY)           0.7-tim [6]         POOL           0.4-a.7m [2]         POOL           0.4-a.7m [2]         Contrypents           Indicate for functional riot fifte-obligate spaces         RIFFLE DEPTH           BEST AFLACE ACTION [1]         MAX	CHANNEL WIDTH C CONF (C): 24 survegg) WIDTH-SHEFLE WIDTH (1] CONF WIDTH-SHEFLE WIDTH (1] C VERY WIDTH-SHEFLE WIDTH (1] C MOD MOD Hold Hilds; Best areas must be large Check ONE (C): 2 UN DEPTH HIFFLE (2) C AU MINUM - Scoren (2) STABLE (4) C XIMUM - Scoren (1) C MOD. STABLE (	Check ALL that apply TENTAL (-1) ES LOW (1) FAST(1) INTERBRITHAL (1) INTERBRITHAL III EDDIES (1) ESTATE (1) EDDIES (1) ESTATE (1) EDDIES (1) ESTATE RIFFLE Obbie, Bouilder (2) SUBSTRATE RIFFLE Obbie, Bouilder (2) Reg. Large Grave((1) Rine Gravel, Sand) (0) % POOL: 20 % C	Primary Co. Secondary Co. Seco	LE (metrice0)

Stream 67 Good Warmwater



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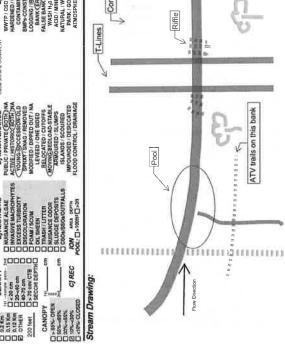
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AJ SAMPLED REACH Chock ALL that apply

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3, Class 2	Stream 68, Class 2
Children Handwater Habitat Evaluation Form	
ChieFFA Primary Headwater Habitat Evaluation Form	ADDITIONAL ETRIAMINTORMATION (This information Base Souri Alve the Completed)
TERMETOCATION PLAT HOUSE How How	CHEIPERFORMED7 - LI Yes SX No CHEI Score III Yes Altach Considered O4EI Form)
DRAINAGE AREA (m <sup>1</sup> )	Distance from Evaluated Stream
RIGTN OF STREAM FEACH IN TO COMPLAT. LONG RIVER CODE RIVER MILE	CWH Name     Distance from Evaluated Stream     Distance from Evaluated Stream     Distance from Evaluated Stream     Distance from Evaluated Stream
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for instructions	MAPPING ATTACH COPIES OF MAPS, INCLUDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE
STREAM CHANNEL NONE / NATURAL CHANNEL TRECOVERED RECOVERING RECEVERING RECEVERY	USGS Quadrenole Name NRCS Soil Map Page NRCS Soil Map Str
MODIFICATIONS:	County County
SUBSTRATE (Estimate percent of every type of subsizate present, Check ONLY are predomated subsizate TYPE boxes	MISCELLANEOUS
(Max of 40). Add total number of significant substrate types found (Max of 6) Pinal means toole in turn of total and the Metric PERCENT TYPE PERCENT Delite	Base Flow Conditions? (TRA) Date of lost are called an Malloon Country _//hknow ~
BLDR SLABS [16 pts] [3 C] _ LEAF PACKWOODY DEBRIS [3 pts] Substrate	Photograph Information
CLAY or HARDPAN TO OL	Elevated fund only (V/V) Chanopy (% open) Were samples objected for water onemistry? (Y/V) (hote lati sample no icrial to il alloch results) Loù familier
CONCLUST WITH (7) Finitial         20         (1)         MUCK (7) pisis           SF(1)         CRAVEL (241 mm) (7) pinitial         20         (1)         MUCK (7) pisis           O         SAND (221 mm) (7)         10         ARTIFICIAL (5) pisis	Were samples solitated for water one matry?? ("My
Total of Percentages of (A) (A) (B) (B) (A + B)	is the variable of the transition of the thream (770) if not, prevering the to the thream (770) if not, prevering the total and the thream (770) if not, prevering the total and
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES:	
Meximum Peel Depth (Messure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Max = 30	Addrard commentates repain of polition equility
Mainton free Depin (pressure are maintained poor exposed and the press)     weather the depines poor the mine address of	
1 - 10 - 22.5 cm (25.pm) No water on Mont CHANNEL (2.pm)	IFOTIC EVALUATION
COMMENTS MAXIMUM POOL DEPTH (continuetres) Lead	Performent? (VALs
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONL Yone box): Taxea but □ > 4 Omease (> 157) E0 pto) (Vidth □ > 20 m - 400 (< 627 - 137) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (< 52 - 73) Z52 pte) (Vidth N 202 - 100 (	Ten Granner Con A. Second 100 _ Calmenters Conserved and Second Conserved Co
- 1/2 - 0.0 = (2.4) (2.7) (20.0)	Floys or Tadpules Ondered (VAII) Voicehell (VAII) Again: Macrosoventeeffes Oneveet (VAII) (Veccor Comments Negendrag Statiogy
COMMENTSAVERAGE BANKFULL MOTHER	a na contra stranille metalom e
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NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio"s PHWH Streams" for Instructions STREAM CHANNEL ONNE / NATURAL CHANNEL RECOVERED RECOVERING RECEVENT OR NO RECOVERY MODIFICATIONS: Common for ch	MAPPING: ATTACH COPIES OF MAPS, INCLUGING THE <u>ENTITE</u> WATERSHED AREA. CLEARLY MARK THE SITE LOCATION USGS Quidy angle Name NIRCS Sol Map Page NRCS Sol Map Site sim Order County
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ength of STREAM REACHING <u>2000</u> ATE <u>23 May 2016</u> , Scorer <u>MDT, 2</u>	CE COMMENTS Internettert
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[2] > 10 - 22 5 cm [25 pts]	MAXIMUM POOL DEPTH COMMENTS
COMMENTS	
>40 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3'3" - 4'8") [15 pts] X = 10 m (s 3'3") [5 pts] Midth Marr20
COMMENT8	AVERAGE BANKFULL WIDTH (moders)
□ >30m -40m (>9'7'-1'3) [25 pts] > 1.5m -30m (>4'6"-9'7') [20 pts] COMMENTS	This information must also be completed
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<b>OhioEPA</b>	and Use Assessment Field Sheet QHEI Score: 37	11
Stream & Location: 7/7	then an Cont there is not statist - [ RM: Date: 031 231 \$6	.11
N. Thomas B. Roles	Scorers Full Name & Affiliation:	
River Gode:	STORET #: Lat./Long.; /8 . Other verified D	
SUBSTRATE Check ONLY	Two substrate TYPE BOXES; c note every type present Check ONE (Or 2 & everage)	
BEST TYPES POOL	OTHER TYPES POOL RIFELE ORIGIN QUALITY	i
ILI BLORISLADS [10]	CINARDAR M	
10 BOULDER (R)	5 TI TI MUCK (2) WETLANDS (0) SILL EINORMAL (0)	
GRAVEL [7]	PLO DI DISILITIZI ZA ARDPAN (0) DERRE (1)	
1 SAND [6]	(Compared with a balance and a RIP/RAP 10) Of the MODERATE [4] (Asymptot	3
UMBER OF BEST TYPES	St CLa or more (2) shops from port-sources) CLACUSTUPENE (0) STI NORMAL (0) 20	3 1
omments	17] a or less (0)	
Guality, 3-Highest quality in mode describer log that in status, will do UNDERCUT BANKS (1) OVERNANGING VEDETAX SHALLOWS (IN SLOW W/ ROOTMATS [1]		Armen meriden
Comments	20	11
CHANNEL MORPHOLO	GY Check ONE is each category (Or 2 & average) PMENT CHANNELIZATION STABILITY	
HIGH [4] DEVELOR		111
MODERATE [3] GOOD [	5] D RECOVERED [4] D MODERATE [2]	
LOW [2]	E RECOVERING [3]     LOW [1]     Chennel     Chennel     Chennel	1
Comments	Masimum 20	1
O NONE / LITTLE [3]     O MODERATE [2]     O HEAVY / SEVERE [1]	RIPARIAN WIDTH         FLOOD PLAIN QUALITY           YUME > Sen (H)         Conset, swawe (H)           Imode yame (H)         Conset, (H)           Imode yame (H)         Co	
Comments	Maximum 2	1
5) POOL / GLIDE AND RIP MAXIMUM DEPTH	CHANNEL WIDTH CURRENT VELOCITY Recreation Potential	
Check ONE (ONLY!)	Check ONE (Or 2 & average) Check ALL mat apply Primary Contact	3
	DOL WIDTH > RIFFLE WIDTH [2] TORRENTIAL [-1] D SLOW [1] Secondary Contact	1 3
□ 0.7-<1m [4] □ PO 0.4-<0.7m [2] □ PO	DOL WIDTH > RIFFLE WIDTH (0) FAST (1)	1 2
0.2-<0.4m [1]	MODERATE (1) DEDDIES (1) Pool/ Indicate for mach - pools and others Current	2
[] < 0.2m [0] Comments	Afasimur	n
	n 🛁	3 m
indicate for functiona of riffie-obligate spec	I riffles; Best areas must be large enough to support a population Interfiel (metric=0) Const ONE (Or 2.6 among)	
RIFFLE DEPTH	RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNESS	
BEST AREAS > 10:m [2]	MAXIMUM > Kocm [2] CTABLE (e.g., Cobble, Boulder) [2] NONE [2] MAXIMUM < Secm [1] MOD. STABLE (e.g., Large Gravel) [1] LOW [3]	EACH K apply STAGE
BESTAREAS S-TOCH [1] DU	DIMOTANE Fine Fine Ground Sandi IM	STE
] BEST AREAS < Som [metric+0] Comments		SAMPLED REACH Creck ALL that apply THOD STAG
GRADIENT 4 film	U VERY LOW-LOW [24] %POOL: (10) %GLIDE: (5) Gradent	A A A
DRAINAGE AREA	MODERATE [6-10]	Cred Cred
1 5.36 mil		
EPA 4520	DSrieCE	AI

F Information of the second	
HIGH CALL FOR THE	Loid Loid
Circle some & COMMENT	
С И ИМИТЕНИИ С И	Star Tood
В Алективности в Соорональские соорона с	Leeven for the second s
	Stream Drawing:
Juliana	Stream 72 Poor Warmwater

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EPA 4520

Stream 72 Poor Warmwater

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9/15/2016 2:04:54 PM

in

Case No(s). 16-1769-EL-BLN

Summary: Letter of Notification - Part 8 of 10 electronically filed by Mr. Hector Garcia on behalf of AEP Ohio Transmission Company