Stream 193 Mod. Class 1 hh-bae-030016 2 Character Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3): CRAHAGE AREA (m/) DATE 3 3/16 SCORER YAR COMMENTS LONG Eil NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CHANNEL ONON, MATURAL DIVINITIAL DIVINITIALI DIVINIT SUBSTRATE (Eallmake percent of every type of substrate present. Check *OALY* two predominant substrate TYPE box (Max of 40). Add Idda number of significent substrate types found (Max of 6). Final matric score is sum of boxes A.S. B. TYPE

TYPE

SILT [3 pt]

LEAF PACKWOODY

FINE DETRITUS [3 pt]

CLAY of HARDPAN [
MUCK [0 ptn]

ARTIFICIAL [3 pt] BLDR SLABS (16 pts)
BOULDER (>256 mm) (16 pts)
BEDROCK (16 pt)
COBBLE (65-256 mm) [12 pts)
GRAVE: (2-64 mm) [9 pts] PERCENT SILT [3 pt]
LEAF PACKWOODY DEBRIS [3 pts]
FINE DETRITUS [3 pts]
CLAY or HARDPAN [0 pt]
MUCK [0 pts] Substrate Max = 40 9 SAND (<2 mm) [6 pla] A + B OF TWO MOST PREDOMINATE SUBSTRATE TYPES: of depth within the St. Items (700 to ever, pass much at the lime of (Check ONLY one box)
 (5 cm - 10 cm [15 pts]
 (5 cm | 3 pts]
 (8 cm | 3 pts]
 (9 water or world churren to pts MAXIMUM POOL DEPTH (centimeters): BANK FULL WIDTH (Measured as the average of 3-4 mer > 4.0 melem (> 137) (30 pts) > 3.0 m - 4.0 m (> 9"7"- 137) [25 pts] > 1.5 m - 3.0 m (> 4"8"- 6"7") [20 pts] 5 AVERAGE BANKFULL WIDTH IN RIPARIAN ZONE AND FLOODPLAN GUALTY SHOTE: River Left (1) and Re SPARAAN WIDTH (COPPLAN GUALTY SHOTE: River Left (1) and Re SPARAAN WIDTH (FOR Beach)

Light (1) (Mod Precominer per Bate)

Vide > 10m | 10m ( R (Per Benk) Vide >10m □ □ (Aban or Institution) Moderate 5-10m Open Pasture Rei Crop Maning or Construction □ □ Narrovi <5m Old Helderm Pan New Fleid None COMMENTS. FLOW REGIME (A) Time of Evenusion) (Check ONLY one box):
Steam Powing
Substrates flow with isolated pods (intersitins)

COMMENTED

Over Channel, isolated pods, no low (list
Substrates flow with isolated pods (intersitins)

Over Channel in o water (Ephenorus) 

Moderale (2 1/10) 4)

☐ Moderate to Sevare

Severe . ---

STREAM GRADIENT ESTIMATE

Comments

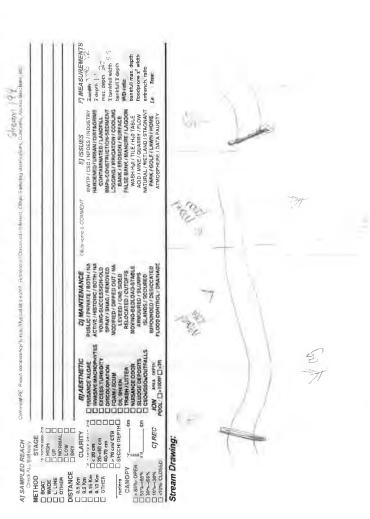
6] GRADIENT , 44

GRADIENT | 1/1 | N/mi) | VERY LOW - LOW [2-4]
DRAINAGE AREA | MODERATE [6-10]
| 1/3 5 | min | High - VERY HIGH (10-6)

ONIDERN	and Use Assessi	at Evaluation Index ment Field Sheet	QHEI Scor	6: (7.55)
Stream & Location: 1	P Good Proper Torber	,,F	PM: Date:	// 06
Cheer Steer Oth		Full Name & Affiliation:_	16	Dillos verified
Niver Code:	STORET #:	Lat/Long.:	18	ignition
BEST TYPES   POOL R	FFLE OTHER TYPES POOI    HARDPAN [4]     DETRITUS [3]       SILT [2]       SILT [2]       APTIFICIAL [0]     (Soon nature substrate     3 or less [0]	RIFFLE ORIGIN  LIMESTONE [1]  TILLS [1]  WETLANDS [0]  ARRIPAN [0]  SANDSTONE [0]  SANDSTONE [0]  LACUSTURNE [0]  COAL FINES [-2]	DNONE	[-2]  LATE [-1] Substra  L [0]  J.  L [0]  Maximum  AL [0]  Maximum  AL [0]
INSTREAM COVER Indicates and i		pe bounders in deep or last water, it or deep well-defined, handland p	B [1] B MODERAT	E 25-75%-[7]
CHANNEL MORPHOLOG   SINUOSITY DEVELOP   HIGH  4    EXCELL    MODERATE [3]   GOOD [5   LOW [2]   FAIR [3]   NONE [1]   POOR [1	NONE [6]  NONE [6]  RECOVERED [4]  RECOVERING [3]	ON STABILITY  ☐ HIGH [3]  ☑ MODERATE [2]  ☐ LOW [1]		Chiennel /1.5
River right looking downstrater  EROSION	MODERATE 10-50m (3)	FLOOD PLAIN QUALIT OREST, SWAMP (3) HRUB OR OLD FIELD (2) ESIDENTIAL PARK, NEW FIELD (	CONSERVAT	NDUSTRIAL [0] NSTRUCTION (0)
☐ > 1m [6]	CHANNEL WIDTH  theck ONE (Or 2 8 avansge)  DL WIDTH > RIFFLE WIDTH [3]   DL WIDTH = RIFFLE WIDTH [1]   DL WIDTH # RIFFLE WIDTH [0]	CURRENT VELOCITY Check ALL, livid apply TORRENTIAL[-1] DI SLOW [1] VERY FAST [1] DIMTERSTITI MODERATE [1] DEDDIES [1] Indicate for reach a position and reliable	Primar Second	Pool/ Current
Indicate for functional of riffle-obligate specie RIFFLE DEPTH	RUN DEPTH RIFFLE AXIMUM > 50cm [2] Z STABLE (AXIMUM - 10cm [1] Z MOD. STA	RUN SUBSTRATE RIFF	population DN LE / RUN EMBEDI SHORE [3] DLOW [1] DBODERATE (0	O HIFFLE Imebles

%POOL: 30 %GLIDE: 20 %RUN: 30 %HIFFLE: 20

Conductivity Limited form)  E all vougher samples must be aboved a to be overlated into the Assassined Manual because of
E all voucher samples must be aboved a bibliococowider lists us nonescent Maruelli sulcher? (YM) Voucher? (YM)
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E. all vocative samples must be labraed a tablic occorder His tar Assassment Manual) sucher? (Ms)
E all voucher samples must be aboved a 1510.
Conductors (umber/cm)
ren resure) Fab Millings
ich results} Lab Number
uantity
NRCS So: Map Stream Order
CLEARLY MARK THE SITE LOCATION
ance from Evaluated Stream
soci ton being Steam
npisled QHEI Form)



Moderate (2 M/20 ft) PHWH Form Page - 1

☐ Moderate to Severa

STREAM GRADIENT ESTIMATE
Fiat to 3 8/193 4) | Fiat to Moderate

DATE SAL	REAM HEACH IN	LAT COL	RIVER BASIN RIVE LONG RIVE MENTS [NT]	R CODE	RIVER MILE	
STREAM CHA	NONE / NONE / N	TURAL CHAP	INEL DRECOVERED BRECK			
(Max of TYPE BLC CONT.)  BOOK OR OR OR SA  Bid Sic Score of TW  Marine	40) Add total number of signit MR SLABS [14 pds] ULDER (2-256 mm) 16 pds] DROCK (16 pf) BBLE (66-256 mm) (12 pts) AVEL (2-64 mm) [6 pts] NO (-2 mm) [6 pts] Cotal of Percentages of bs., Boulder, Cobble, Bedrock O MOST PREDOMINATE SUB	30 STRATE TYP	Libitate present. Check ONLY type;  Upper lound (Max of 1). Finist mellic  TYPE  Sil.T (3 pr)  CLEAF PACKWINGO DY  CLEAF CONTROL (2)  ARTIFICIAL (3 pis)	DEBRIS [3 property of the prop	PERCENT (60 10 10 10 10 10 10 10 10 10 10 10 10 10	HHE Metri-Point
cown	ENTS		(6" BAXIMUM PO	OL DEPTH	rentimaters):	
0 *4,0 mm	FULL WIDTH (Heasoned as II sters (> 13) (30 pts) - 3.0 m (> 6 7° - 13) (25 pts) - 3.0 m (> 4 8° - 9° 7°) (20 pts)	This	> 1.0 m - 1.6 m (> 3"   5 m (>	NKFULL W	DTH (metars)	Bankfe Width Maxes
_ 		FLOODI	ITY ANOTE: River Left (L) and PLAIN QUALITY  (Most Predominant per Bank)  Mature Forest Walland  Immature Forest, Shrub or Old  Field		Conservation Tillage Urban or industrial	
医医		00	Residential Park New Field Fenced Pasture	64 GK	Open Pasture, Row Crap Mining or Canstruction	

~1	Inr
Stream	-170

DITIONAL STREAM INFORMATION (TRIA.	Information Burst Assable Company	(Bed)	
QHE PERFORMED? Yes	No QHEI Score (II Ye	s Atlach Completed QHEI For	n)
DOWNSTREAM DESIGNATED USE	E(S)		
D CWH Name		Distance from Evaluation Distance from Evaluation	
D EVVI Name		Distance from Evaluate	
MAPPING ATTACH COPIES OF MAI	PS, INCLUDING THE ENTIRE WATER	BHED AREA. CLEARLY MARK	THE BITE LOCATION
	NRC6 Soil		
County:	Township / City,	Map 1 ago Mico ca	map oreall order
MACELLANEOUS	Township / Gity.		
	21.		
describer Conditions 7 (YA) N Date o	of last precipitation: 7 12-	Country	_
Photograph information: 2699			_
Elevated Turbidity? (Y/N) Cenc	opy (% open)		
Were samples collected for water chemistry? ()	Y/N) _ (Note teb sample no	or kt and attach results) Lab Nu	mber:
First Measures 1 emp (°C) Dissolv	ved Ovygen (mpl) pH (8	U ) Canductivity (µm	hos/cm)
is the sampling reach representative of the size			
Continual commentables organism of politicon in	gade		
MOTIC EVALUATION			
Delements State / Maria Promise			
Performed? (M Yes Record :	all observations. Voucher collections o	ptional NOTE: all voucher samp	les must be labeled with th
ID number inch	iude appropriate field data sheels from	the Primary Headwaler Habital A	les must be labeled with these symmet Manual)
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QHEI PERFORMED? -	_ V	
	Yes AlNo QHEI Score	(If Yes, Atlach Completed QHEI Form)
DOWNSTREAM DESIG	,	
WWH Name		Explance Born Everyalish Stream
		Distance from Evaluated Stream
T EWH Name		Distance from Evaluated Stream
MAPPING: ATTACH CO	PIES OF MAPS INCLUDING THE ENTIRE 1	WAYERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quedrangle Name	NRC	S Soil Map PageNRCS Soll Map Stream Order
County:	Township / C	
MISCELLANEOUS	1 OWITSTRIP / C	mp
	1	i san san san
Base Flow Conditions? (Y/N):	Date of last precipitation	Countily.
Pholograph information		
Flewsland Turbidity? (Yan)	Cahopy (% open)	
maradan renerally . ( rener		
Bert County Con Mark Control	M	Company of the Compan
		e no or 45, and attacts results) Lab Number
		enc or id, and ethich moults) tab himmer
Field Massures: Temp (*C)	Dissolved Oxygen (mg/l)	pH (S.U ) Conductivity (µmhos/cm)
Field Massures: Temp (*C)		pH (S.U ) Conductivity (µmhos/cm)
Field Mausures: Temp (*C)	Dissolved Oxygen (mg/l)	pH (S.U ) Conductivity (µmhos/cm)
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Field Measures: Temp (*C)	Dissolved Oxygen (mg/l)	pH (SU )Conductivity (umhos/cm)
Field Measures: Temp (*Cl_ all he sampling reach representati 558 or at Automorphisms of the second BIOTIC EVALUATION	Dissolved Obygen (mg/h)  Pissolved Obygen (mg/h)  If mid. please  If pisson impacts:	PH (SU )Cranductivity (µminos/cm)
Field Measures: Temp (*Cl_ is the sampling reach representative  ASSE or at Commercial Securities  BIOTIC EVALUATION  Performed? (*YAN):   ###################################	Dissolved Oxygen (mg/h)  Plant stream (Y/h)  If mid. stream  Fresh ston respects  Fresh ston  Fr	PH (SU ) Conductivity (µmhos/cm)
Field Measures: Temp (**C)	Dissolved Oxygen (mg/l)  ve of the streem (Y/N)  If not please  products  Track says reports  Yes, Record all observations. Voucher color  number. Include appropriate field data sheet	pH (SU )Conductivity (µmhos/cm)
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Field Measures: Temp (**CL	Cliscoved Oxygen (mg/h)  Text series  First on models  Yes, Record all observations. Voucher collect  Wouther (V/h). Salamaniary Observation  Voucher? (V/h). Apartic Mec  NARRATIVE DESCRIPTION OF 5	pH (SU )Conductivity (juminoutrm)
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Field Measures: Temp (**CL	Clissolved Oxygen (mg/l)  Per of the stircem (Y/N)  If mod, steamer  Feek any respects  Yes, Record all characterists. Voucher colecularly  Voucher (Y/N)  Salaman ders Observe  Under (Y/N)  Agustic Mac  Voucher? (Y/N)	pH (SU )Conductivity (uninos/cm)
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Field Measures: Temp (*Cl_ is line sampling reach representable  **ASSEconal Gazerners Wilderschlens  **BOTIC_EVALUATION**  **Portioned? (*(Ni):	Cliscoved Oxygen (mg/h)  Text series  First on models  Yes, Record all observations. Voucher collect  Wouther (V/h). Salamaniary Observation  Voucher? (V/h). Apartic Mec  NARRATIVE DESCRIPTION OF 5	PH (SU ) Conductivity (jumhos/cm)

PHWH Form Page - 1

	GIL NOTHER.	HHEI Score (sum of metrics 1, 2, 3):    So	/
2111 3/	THE SCORE FOR STATE OF THE FORM CHANNEL CHANNEL CHANNEL	COMMENTS INT  - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for  UNA CHANGE OR RECOVERED TRECOVERING OR RECENT OR NO  ACCUMULA ZONA	Instructions
	x of 40) Add total number of significa PE BLDR 6LAB6 [16 pts] BOULDER (>256 mm) [15 pts] BEOROCK [16 pt] COBBLE (85-256 mm) [12 pts]	y lyps of substirate present. Check ONLY less predominant substirate TYPE box.  In substirate types towns (Max of 8) Finel medric score is sum of boxes A & 8  RCENT PS    TPS   LEAF PROSYMOODY DEBRIB [3 phs]	HHE Metric Point Substrace Nax = 4
22 >30 >20 >20 >30 >30 >30 >30 >30 >30 >30 >30 >30 >3	thrown Poul Depth (Measure the mi	Activities or starm waiter (pers) (Check ONLY from box).  -5 (en-) form (5) for (5) fo	Bankfu Width
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	RIPARIAN ZONE AND FLOOGR RIPARIAN WIDTH  (Per Benk)  (Wide > 10m  Moderate 5-10m  Narrow <5m  here  COMMENTS	This inharmation must also be completed.  PLOOPLAIN OUALITY  I. R. (Most Predominent per Bank)  I. Muster Fored, Wetland  Immalure Forest, Shrub or Old  Field  Residential, Park, New Field  Field  Fence Pasture  White Forest Pasture  Mining or Construction  Mining or Construction  Mining or Construction	age bl
R	FLOW REGIME (At Time of Evalu Stream Flowing Subsurface flow with isolated pool COMMENTS	Moist Channel, Isolated pools, no flow (Intern	ditent)
×	SINUOSITY (Number of bonds polyone 0.5	er 61 m (200 ft) of channel] (Check <i>ONLY</i> one box) 1.0	

4			ater Habitat Evalu	auoni	OIIII	-
		_	HHEI Score			30
STENAMEA	SEATHON ACE	out of the	C mil			-
	SITE NUMBE		RIVER BA9:N		RAINAGE AREA (mi²)	
MIE SI	STREAM REACH(#)	E CAT	LONG TINT	ER CODE _	RIVER MILE	
	A. Delantin	200	"Field Evaluation Manual for	Ohio's PH	VH Streams" for instr	uctions
STREAM C			NNEL RECOVERED GREC			
MODIFICA		TIENTO IDEC	THE PLANTS IN THE			
		_		_		
1 SUB (Max	STRATE (Estimate percent of of 40). Add total number of sign	fevery type of s gnificant substrate	ubstrale present. Check ONLY two types found (Max of 8). Final metric	predominani spore is sum	of boxes A & B.	HHE
TYPE	ILDR SLABS [18 pts]	PERCENT	TYPE KI: 6ILT 13 pti		PERCENT	Metric Points
	IOULDER (>256 mm) [16 pts]		☐ □ LEAF PACKWOODY			Substrat
	EDROCK [18 pt]	1	☐ FINE DETRITUS [3]			Max = 4
	BRAVEL (2-84 mm) [9 pts]	10	O O MUCK (0 pts) O O ARTIFICIAL IS stat		_	10
	SAND (<2 mm) [8 pts]	10_	ARTIFICIAL [3 pts]		(8)	
	Total of Percentages of		DATE -			A + B
	Slabs, Boulder, Cobble, Bedro		6		9	7.5
SCORE OF T	WO HOST PREDOMINATE S	UBSTRATE TYP			RATE TYPES:	
SCORE OF T	WO HOST PREDOMNATE S	he maximum po	of depth within the fif are ter (200 ft	evaluation i	RATE TYPES:	Pool Dep Max = 3
2 Max	WO MOST PREDOMINATE S Imilian Post Out the (Messuare of Ladian, Anad Shange Books from Landmarkers (20 pts)	he maximum po	of depth within the fit as the (200 ft) domestic poets (Check City Y	evelyalizh e one boxo	RATE TYPES:	Pool Dep Max = 3
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2 Max 2 - 300 1 - 22:	WO MOST PREDOMINATE I Imim Paul Ospiti (Messure I 1850s. Andd Shinge Bools fron 1860s. Andd Shinge Bools fron 1860s. (20 pts)	he maximum po	of depth within the fit asset (200 ft domestic poets) (Check CMI, Y 5 cm 10 cm (16) 1 5 cm 15 pts) (CMI, Y CMI, Y	d evaluation of the contract old old old old old old old old old old	RATE TYPES:	Pool Dep Max = 3
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2 Max 22: 30: 30: 30: 30: 30: 30: 30: 30: 30: 30	WO HOST PREDOMNATE IS main Parid damps pools for confidential (20 pts) > 30 om D8 pts) > 20 om D8 pts) > 20 om D8 pts) IMENTS IMENTS (15) 130 pts) maters (15) 130 pts) = 4.0 m D *7* - 137 [25 pts)	he maximum po	of depth within the fit make (200 fit) of check Ghill V (Check Ghill V ) 5 cm (10 pts) (10 mt) of mt	DOL DEPTH  K ONLY one 3"- 4'8") (15	RATE TYPES:  sech at the limb of  the (e pis)  (contimeters):  box):	Pool Dep Max = 3
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2 Maxis   10 min   10	WO MOST PREDOMNATE !  Imim Paid Depth (Massacra)  sizer, Arvid Shunga pools for  certifications (20 sts)  - 30 on Did Red  - 27.5 on Did Red  - 30 on Did Red  RIPARIAN ZONE AND FLO  RIPARIAN ZONE AND FLO  RIPARIAN ZONE AND FLO  RIPARIAN WITH  RIPARIAN WITH  RIPARIAN MOTH  RIPARIAN WITH  RIPARIAN	the maximum po	of depth within the \$f\$ estitle (200 ft storm wide peem) (Check Stiffs*)	DOL DEPTH  K ONLY one 3' - 4'8') (15  EMPT CHANNEL W  ANKY ULL W  L Right (R) as	RATE TYPES:  sech all the imm of  licentimeters):  body:  prol	Pool Dep Max = 3
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DOWNSTREAM DESIGNATED USE(S)  Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLIDING THE EVITIRE WATERSHID AREA. CLEARLY MARK THE STITE LOCATION  MISCS Quadrangle Name NRCS Soil Map Page NINCS Soil Map Stream Order NRCS Soil Map Page NINCS Soil Map Stream Order  NRCS Soil Map Page NINCS Soil Map Stream Order  Ousnity  MISCELLANEOUS Base Flow Candillons? (Y/N): Date of last precipitation Date of last precipitation  Ousnity.  Ousnity.  Date of last precipitation  Ousnity.  Ousnity.  Ousnity.  Defended Turbiddy? (Y/N): Date of last precipitation Dissolved Orygen (mpt) PH (8 U ) Candidativity (prinhosicin)  The sampling reach representative of the stream (Y/N).  If not, please agriss;  If not, please agriss;  If not, please agriss;  Outnity of the stream of the stream (Y/N).  Outnity of the stream of the stream (Y/N).  Outnity of Y/N): Dissolved Orygen (mpt)  Unumber, Include appropriate feld ofte sheets from the Prinary Headwater Hightst Assessment Manual)  Fortormed? (Y/N): Voucher? (Y/N).  Outnity of Y/N): Voucher? (Y/N).  DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Include important institutes and other features of features by a stream and a near-stream one of near-stream of the stream of the call.	QHE PERFORMED? - TYes No QHE!	Score (If Yes Allach Completed QHEI Form)
Outdands form Evaluated Stream		
Oldance from Evaluated Stream  NAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA CLEARLY MARK THE SITE LOCATION  NINGS Quadrangle Name  NINCS Soil Map Page  NINCS Soil Map Stream Order  Toenthin / Offy  Toenthin / Offy  Ought formation  Ought formation  County  Conductions? (YNI)  Condocy (No open)  County  Conductions (YNI)  Conductions (YNI)  Conductions (YNI)  If mot, please explain  Silicinc EVALUATION  Ought formation  (If Yee, Record at decervations Voucher codedions agricult. NOTE at voucher rampies must be labeled with in Ununber, include appropriate field otherwise from the Primary Headman February (YNI)  Conductions (YNI)  Voucher? (YNI)  Ought Stream Order  (If Yee, Record at decervations Voucher codedions agricult. NOTE at voucher samples must be labeled with in Ununber, include appropriate field otherwise from the Primary Headman February (YNI)  Voucher? (YNI)  Ought of YNI)  Ought of YNI  Ought of YNI		Distance from Evaluated Stream
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Township / Old	MAPPING: ATTACH COPIES OF MAPS, INCLUD	ONG THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
Bisse Flow Carditions? (Y/N):	USGS Quadrangle Name	NRCS Soil Map Page NRCS Soil Map Streem Order
Base Flow Conditions? (YNI) Date of last precipitation # Quantity	County	Tourship / City.
Photograph Information:  Elevated Turbidity (YAN)		
BIOTIC EVALUATION  Performod? (V.N):	Base Flow Conditions? (Y/N): Date of last prece	oltation 3/1-2 Quantity.
Were samples collected for water charmology (YAI):		
Field Measures Temp (*C) Dissolved Oxygen (mpt) pH (8 U ) Conductivity (umbost/cm)  Is the sampling reach representative of the stream (Y/R) If not, please exprains  BIOTIC EVALUATION  BIOTIC EVALUATION  (If Yee, Record of decemplance. Volcher collections epitoral. MOTE of voluber remples must be liabilities with the Unit of number, include appropriate field data effects from the Primary Head ender Habita Ansessment Manual)  Finith Observed? (Y/R) Voluber? (Y/R) Satiansenders Observed? (Y/R), Voluber? (Y/R)  Frogs or Teopolas Observed? (Y/R) Voluber? (Y/R) Aquatic Mecanimentative Observed? (Y/R)  DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):  Include supportant fundaments and other features of Primary for the execution and a near-stine description of the stream's together		
It mol, please explains  BIDTIC EVALUATION  Performed? (Y/N)	Were samples collected for water charastry? (Y/N):	(Note lab sample no or lid and atlach results) Lab Number
Performed? (Y/N):	Field Messures Temp (*C) Dissolved Oxyger	n (mg/l) pH (8 U ) Conductivity (µmhos/cm)
BIOTIC EVALUATION  Performed? (Y/N):	is the sampling reach representative of the stream (Y/N)_	If not, please exprise
BIOTIC EVALUATION  Performed? (Y/N):		
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Detormod? (YAI):   (If Yes, Record at departations. Voucher collections aptenal. NOTE at voucher numples must be labeled with it to number. Include appropriate field data selecte from the Primary Headwater Hebstat Assessment Manual)  (If Yes, Record at departations and the Primary Headwater Hebstat Assessment Manual)  (If Yes, Record at departation of the Primary Headwater Includes with the Include with the Inc	raphonal committee description of pollution impacts.	
include important fundaments and other features of features for allow our action on a near allow one opposition of the square's location	Fish Observed? (YN) Voucher? (YN) Sal Frogs ar Tedpoles Observed? (YN) Voucher? (YN)	rists field data sheets from the Primary Headwater Habitat Assessment Manual)
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	M P To but	PHONE Form Page - 3

Stream 198	hh-bae-obsilio-10
ADDITIONAL STREAM INFORMATION (This Info	motion that Hun be Completelly
QHEI PERFORMED? - TYES X No	QHEI Score(If Yes, Allach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(8)	
O WARRING	Distance from Evaluated Stream  Distance from Evaluated Stream
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MAPPING: ATTACH COPIES OF MAPS. I	NOLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	NRCS Solt Map Page NRCS Soll Map Stream Order
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MISCELLANEOUS	
	t precipitation /5% at Oventily
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Elevated Turbidity? (Y/N) N Canopy (	
Were samples collected for water chemistry? (Y/N)	Note (so sample no. or id and attach results) Lab Number:
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	Mag S - Mag plants states
and anything transfer decisions of the reason	(in) 1 enz, pess espain
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HOTH OF IT	SCOREN TOP	LAT	MMENTO_		RIVER CODE	MIVER MILE	
NOTE: Com	plete All Items On This Fo	rm - Refer to	"Field Eva	luation Manu	al for Ohio's PH	IWH Streams* for Instru	ctions
TREAM CH	ANNEL DINONE/N	ATURAL CHA	NNEL DRE			RECENT OR NO RECO	
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	and the Property of the State of the	and the series	Districts runs	ery. Check ON	. V two postdorman	Water Type hors	
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	OULDER (>756 mm) [18 pts]		DO	LEAF PACK	VOODY DEBRIO D	piel _Hb_	Substra
	DROCK [16 pt] DBBLE (60-256 am) [12 pts]	=	80	CLAY & HAR			M ax = 4
00 0	RAVEL (2-64 mm) (5 pts)		00	MUCK (0 pts)		_	8
_	VID (*2 mm) [# pte]	_		ARTHYCIAL S	300	(8)	
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Evelue	num Pool Depth (Measure the idon. Avaid plunge pools from a selection (20 uts)	maximum po ced culverts or	of dispits with	> 5 cm - 10	am [15 pis]	reach at the time or	
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7 >30 ar 7 >22 5 +10 -	idon, Avaid printe pagni from e internation (20 pts) - 30 cm (25 pts) 22 5 cm (25 pts)	ced coverts or	E	>5 cm - 10 <5 cm (5 pr NO WATER	OR MOIST CHAN	h.Et. (9 cts)	ф
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>30 ar   >22 5   >10 -	Acod purple poor from a semeters (20 pts) - 30 cm (20 pts) 72 5 cm (73 pts) FULL WIDTH (Measured as I acors (> 13) (30 pts) - 4,0 m (> 9 7* 13) (25 pts)	he average of	E	> 5 cm - 10	Check ONLY on (> 3° - 4° 8°) [1	NEL (9 cts) H (dendimeters):	Max =
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>30   >225   10	Acod purple poor from a semeters (20 pts) - 30 cm (20 pts) 72 5 cm (73 pts) FULL WIDTH (Measured as I acors (> 13) (30 pts) - 4,0 m (> 9 7* 13) (25 pts)	he average of	34 measure	> 5 cm - 10 - 5 cm [3 pt NO WATER MAXI ments) > 1.0 m - 11 5 1 0 m (< 3	Check ONLY on (> 3° - 4° 8°) [1	MEL (O com)  H (opentimetory):  Lo boxi: 16 pto)	Max =:
>30   >225   10	### Audit pumpe poors 7 cm / elementers (20 pt )    - 30 cm (30 pts)    - 25 cm (25 pts)    ##################################	the average of	3-4 measure	> 5 cm - 10 < 5 cm (5 pi NO WATER  MAXS ments) > 1.0 m - 1: \$ 1.0 m (< 3	OF MOIST CHANGE  MULL POOL DEPT  (Chack OAL)  (Chack OAL)  (Tay)  (S 2-40)  (Tay)  (S pa)	hEL (6 cts)  H (deniumetors)  to box(: 16 pts)  WIDTH (metors)	Max =
>30	ASSA AND SEPRE DOOR YOUR COMMITTEE TO SEPRE DOOR OF THE SEPRE DOOR	he average of	3-4 measure	ments) > 1.0 m - 11 \$ 1.0 m (< 3  AYER  TOTE: River Left	OF MOIST CHANGE  MULL POOL DEPT  (Chack OAL)  (Chack OAL)  (Tay)  (S 2-40)  (Tay)  (S pa)	MEL (O com)  H (opentimetory):  Lo boxi: 16 pto)	Max =
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30 to   225   10	See Aud garge poor from a seminary poor from a seminary for the poor from a seminary poor from a seminary poor from the poor fro	he average of This SOPPLAIN GUAL FLOR	Information g LITY ON PIAN OUALI (Most Prede Mature For Limmature For Field	> 5 cm - 10	TO THE DESTRUCTION OF THE DESTRU	NELFO des  H (dentification along)  Ho (both)  Ho (both	Max =
225 225 210 200 200 200 200 200 200 200 200 200	Section And garge poor from a section of the sectio	This supplies of the average of the	information plan Oldst Pied Mature For Immeture Field Residential	S cm - 10 S cm   5 m   5	ON NORTH CHANN MUN FOOL DEPTH (Chack GNLY on mr. 9.37 - 4.9)   1   1   1   1   1   1   1   1   1	HELIS deal  Highentimeters price  to book;  to book;  MIDTH (meters)  To looking downstream &  Conservation Tillage  Uthan or Industrial  Open Pasture Row  Cros	Bankf Widti
300m   225	Section And garge poor from a section of the sectio	he average of This SOPPLAIN GUAL FLOR	Information g LITY ON PIAN OUALI (Most Prede Mature For Limmature For Field	S cm - 10 S cm   5 m   5	TO THE DESTRUCTION OF THE DESTRU	HELIS cital  H (dentimelors):  In Dox):  In Dox (in Interest in In	Bankf Widti
30   30   30   30   30   30   30   30	Section And garge poor from a section of the sectio	he average of This SOPPLAIN GUAL FEOOD L. R	information purify on PLAN QUALI (Most Pred Mature For Immature F Field Residential Fenced Par	MAXI	THE PROPERTY OF THE PROPERTY O	HE (Seds) H (dendmeters) H (dendmete	Bankf Widti Max
30   30   30   30   30   30   30   30	See Aud garge poor from a seminary poor from a seminary for the poor from a seminary poor from a seminary poor from a seminary poor from the seminary poor from	This supplies the average of the ave	Information purify on Plan Quality (Most Preds Mature For Immature F Field Residential Fenced Par	MAXUMENTS  > 5 cm. 10  < 5 cm   5 dm. 10  < 5 cm   5 dm. 10  MAXUMENTS  > 1,0 m1  > 1,0 m1  > 1,0 m1  AVER  MAXUMENTS  > 1,0 m1  AVER  MAXUMENTS    Name   1,0 m1    Name	THE PROPERTY OF THE PROPERTY O	MELECON  H (deminatory)  NO DAY:  NO DA	Bankfi Width
225 225 210 200 200 200 200 200 200 200 200 200	See And garge poor from a seminary flowing poor flowing flowing poor flowing poor flowing poor flowing f	he average of Diplan dua FLOOD	Information : LTTY AN PLAN QUALIT (Most Prete Mature Ford Immature Field Residential Fenced Par	> 5 cm - 10 < 5 cm   5 or	om (19 pag)  GA NORT CHAN  GA CHAN	MELECON  H (deminatory)  NO DAY:  NO DA	Bankfi Width

Mod. Class Z

TE HAMEA	Primary Hea	Hill Step M.	HHEI Score (s	um of metri	ics 1, 2, 3) ; #	0
TE NAMEL		RIVER BA	SIN	DRAI	NAGE AREA (mi²)	
MTE 3/2	mplete All Items On This Form - Re	for to "Fleid Eva	10th	nio's PHWH		ctions
	STRATE (Estimate percent at every type		er an en district	alamia -	and reference 1	_
	### (Septime of the profit of	shale types found	Mar of 6) Final methic is SELT (3-pd) LEAF PACK/MOODY I FINE DETRIFUS (D-pine) CLAY OF HARDPAN (I MUCK (D-pine) ARTIFICIAL (3-pine)	DESPIT (2 pra)	PERCENT	Met Poir Subst
Bldr S	Total of Percentages of Stabs, Boulder, Cobble, Bedrock WO MOST PREDOMINATE BUBSTRATE	TYPES:	TOTAL NUMBER	OF SUBSTRA	TE TYPES:	A+1
Maxi	mum Pool Depth (Measure the roundmuration, Avoid purps pools from road outve- ponteneters (20 pts)	ni pout depth with its or storm water, s	the file 61 meter (200 fg (Check QALY o	everyenan resc ne baxij la)	h some time of	Poul D Max
8 310	5 - 30 cm (20 pist) - 22.5 cm (25 pist)	ñ	NO MYLES OF MO	ST CHANNEL	121	19
22 × 10	5 - 50 cm (30 pls) - 22 5 cm (25 pls) IMENTS	ក	MAXIMUM PO	OL DEPTH (co	nlimeters):	15
CON SAN () >401 () >301 ()	5 - 30 cm (20 pist) - 22.5 cm (25 pist)	ក	MAXIMUM PO	OL DEPTH (co	nlimeters):	Who
BAN >40:	5 - 50 cm [25 pth]  - 22 5 cm [25 pth]  KK FULL WIDTH (Memoured as live overa)  motors (> 13) [30 pth]	or 01 3-4 pms, 1945	MAXMUM PO	OL DEPTH (co	nilmeters): 2	Who
BAN >400	S - 30 or p Dg ph)  WENTS  KFULL WIDTH (Memorred as the averagement - 13) Dg port  a - 4.0m p 9 7 - 137 [25 pts]  a - 3.0m p 4 9 - 9 77 [25 pts]  RUPARIAN ZONE AND FLOODPLAIN  RIPARIAN ZONE AND FLOODPLAIN  RIPARIAN WIDTH  EL	go of 3-4 prints and a good of 3-4 prints and	MAXMUM PO	OL DEPTH (co ONLY one bo C F F O 113 pm a)  NHFULL WIDT	nilmeters):  XI:  (meters)	Who
BAN   >401   >301   >161	S - 30 or p 09 ph)  WENTS  K FULL WIDTH (Measured as the overs) motion to 13) 30 pts  s - 40m p 97 - 13) [25 pts]  m - 30m p 4 6 - 9 77) [25 pts]  RIPARIAN ZONE AND FLOODPLAIN RIPARIAN WIDTH  FL  (Per BINS)  L  (Per BINS)	This information of QUALITY ON OODPLAIN QUALITY Most Prede	MALAUM PO- ments) (Check > 1.0 (.537) (5 pc) \$ 1.0 m (.537) (5 pc) AVERAGE BA  MILES disb be completed OTE: River Left (t.) and if IV orman per Bank) set, Wellank)	OL DEPTH (ce ONLY one bo F. 63) (15 pm e) NHFULL WADT Right (R) as loo	nilmeters):    1	Who
BAN   >400   >300   >160	** - 30 cm p 00 ph)  **Z* 2 cm (T2 pt)  MEFUT.  MEFUT.	This information is authorized to the control of th	MAXAMMA PO- MARIA DA PO- MARIA	ONLY ONE DO  ONE DO  ONLY ONE DO  ONE	ntimeters):  xi:  (meters)  king downstreem &  Conservation Tilinge  urban or Industriel	Who
BAN >400 >300 > 160 COM	A Super Dig ph)  WENTS  K FULL WIDTH (Measured as the overage motion of 13) Dig plat  A JOINT CONTROL OF THE SUPER	This information aduative American Guardina Guar	MALAUM PO- ments) (Check > 1.0 (.537) (5 pc) \$ 1.0 m (.537) (5 pc) AVERAGE BA  MILES disb be completed OTE: River Left (t.) and if IV orman per Bank) set, Wellank)	CHANNELL (co	initimeters):  XI:  XI:  XI:  XI:  XI:  XI:  XI:  X	Who
BAN >400 >160 COM	S - 30 or p 50 ph)  KF ULL WIDTH (Measured as the averagement - 13 ploy point)  F - 40 m p 9 7 - 137 [52 ph)  - 40 m p 9 7 - 137 [52 ph)  - 30 m p 4 9 - 9 7 7 [52 ph)  MENTS  RIPARIAN ZONE AND FLOODPLAIN  RIPARIAN WIDTH  FL  Wide - 10m  Moderals 5-10m  Natives - 50m	This information of QUALITY ON CODPLAN QUAL  R (Most Prode Mature For Fine Fine Fine Fine Fine Fine Fine Fine	AVERAGE BA	ST CHANNELL  OL DEPTH (co  ONLY one bo  - 407 (15 pm  )  NHFULL WIDT    R    R    R    R    R    R    R	nilmeters):  (x):	Who
BAN >400 >160 >160	** - 30 or p 109 ph)  ***E2 > on (72 als)  MENTE.  K FULL WIDTH (Measured as the overameter p 13) Boystel  #**A-40 n P # 7**-137 (20 pts)  #**A-50 n P 4 9**- 9** 7) (20 pts)  #**RIPARIAN ZONE AND FLOODPLAIN  ***RIPARIAN WIDTH  ***CPE STATE  ***MENTE***  ***MENTE**  ***RIPARIAN WIDTH  ***CPE STATE  ***MENTE**  ***Moderals 5-10 n [2]  ***Moderals 5-10 n [2]	This information adulatity OND ODDIAN QUARTY ON ODDIAN QU	AVERAGE BA  AVERAG	COLAMBEL  OL DEPTH (co ONLY one bo one bo only one bo	All (melers):  All (melers)  A	Who
CON SAN NO. >160 CON	** - 30 or p Dig ph)  **E 2 * sm (T2 std)  MEPUT.  **K FULL WIDTH (Memorred as the overameter - 13) [Do pt]  **a - 4.0m (9 0' 7' - 13) [Do pts]  **a - 1.0m (9 0' 7' - 13) [Do pts]  **RIPARIAN ZONE AND FLOODPLAIN  **RIPARIAN ZONE AND FLOODPLAIN  **RIPARIAN WIDTH  **RIPARIAN WIDTH  **E (Per Bank)  **Wide - 10m  **Moderate 5-10m  **States = 5-m  **Hattee = 5-m  **Floor **RIPARIAN**  **Floor **RIP	go of \$-4 Immature of the control of	MAXMUM PO-	OL DEPTH (ce ONLY one bo	All (melers):  All (melers)  A	Marie 15

QHEI PERFORMED? - TYes ON OHELSON	re (If Yes, Allach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	- 14.14.14.14.14.14.14.14.14.14.14.14.14.1
	Distance from Evaluated Streem
	Distance from Evaluated Stream
	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING	THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS C. ANALYS HAVE	NRCS Soll Map Page NRCS Soll Map Stream Order
County	Township / City.
MISCELLANEGUE	
Base Flow Conditions? (Y/N) Date of last precipitals	ion 2/1-2 Quantity
Photograph Information	(28)
Elevated Turbidity? (Y/N) Cunopy (% open) _	40.30
Elevaled Turbidity? (Y/N)/ Y Canopy (% open) _	-10
Were samples collected for water chemistry? (Y/N) 1	(Note lieb sample no or at and which results) Leb (
First Macracia Temp (°C) Dissolved Oxygen (in)	ofprivite U.) Conductivity (µmhos/cm)
is the sampling reach representative of the unear (VM)	Very course exclusive
The second second second second	1 30 900 1000
-	
BIOTIC EVALUATION  Performed (TAI) (If Yes, Record at its eventures, its new-term (If Yes, Record at its eventures, its new-term (If Yes, Record at its eventures) (If Yes, Reco	North Control of the
BIOTIC EVALUATION  Performed (XA)	Voocher nide slove getood. HOTE int worder rumpes mide be tables with to find day allowed to the PM may fraud and Hacke Assess are Shanush anders Observed? (YM)
BIOTIC EVALUATION  Performed (XA)	Vocable rollogions optional. HOTE off vacables summans sized be tables with the field data absolute to the Philatop Haud and Historia Associate and Manually and des Observed? (YM)
BIOTIC EVALUATION  Performed (XA)	Vocable rollogions optional. HOTE off vacables summans sized be tables with the field data absolute to the Philatop Haud and Historia Associate and Manually and des Observed? (YM)
BIOTIC EVALUATION  Performed? (TAS	Vocable rollogions optional. HOTE off vacables summans sized be tables with the field data absolute to the Philatop Haud and Historia Associate and Manually and des Observed? (YM)
BIOTIC EVALUATION  Performed (VA) (If Yes, Record all desengences in Deserved (VA) Solicins resence have fine Coserved (VA) Voucher (VA) Solicins Froge or Telepotes Observed (VA) Voucher? (VA) Coserved (VA)  DRAWING AND NARRATIVE DESCRIBENTATIVE PROPERTY SOLICINS SINGLES SINGLE	Vocable rollogions optional. HOTE off vacables summans sized be tables with the field data absolute to the Philatop Haud and Historia Associate and Manually and des Observed? (YM)
BIOTIC EVALUATION  Performed? (TAY)	Vocable rollogions optional. HOTE off vacables summans sized be tables with the field data absolute to the Philatop Haud and Historia Associate and Manually and des Observed? (YM)
BIOTIC EVALUATION  Performed? (TAY)	Vocable rollogions optional. HOTE off vacables summans sized be tables with the field data absolute to the Philatop Haud and Historia Associate and Manually and des Observed? (YM)
BIOTIC EVALUATION  Performed? (TAY)	Voccher colorations optional. FIOTE all shoulder summans milet be tabled with the field after elevation the Printing Handwater Machan Assessment Manuals and Assessment Manuals. Voucher? (YN)
Performed' (1781) (If Yes, Record all statements to marches Studie statements to marches Studie statements at the Cheavest Yorki Voucher? (Y/N) Solution Frogs of Telepoles Observed Yorki Voucher? (Y/N) Comments Regarding Sology  DRAWING AND NARRATIVE DESCRIED Builded supportant feedbacks and other features of telepoles supportant feedbacks and other features of telepoles.	Voucher coloritions cyslocal. HOTE, all shoulder remignes study be tables with the fall data division from the Printing Handwater Historia Associated Historia Associa
BIOTIC EVALUATION  Performed (VA) (If Yes, Record all desengences in Deserved (VA) Solicins resence have fine Coserved (VA) Voucher (VA) Solicins Froge or Telepotes Observed (VA) Voucher? (VA) Coserved (VA)  DRAWING AND NARRATIVE DESCRIBENTATIVE PROPERTY SOLICINS SINGLES SINGLE	Viscohar colorations (global: 100 E all viscohar summans eluist to talk set with the field after wheth time the Printary Head after the last Assessment Menuals and or a Observed (Y/N) Voucher? (Y/N) Voucher? (Y/N) Voucher? (Y/N) Printo Macromvertebrates Observed? (Y/N) Voucher? (Y/N)

DOTTOMAL STREAM INFORMATION (This I	Information Munt. Alon In Compilated);
QHEI PERFORMED? - TYes X	No QHEI Score(II Yes, Allach Completed QITEI Form)
DOWNSTREAM DESIGNATED USE	E(S)
V/WH Name	Distance from Evaluated Stream
CWH MATE	Distance from Evaluated Stream
] EWHILLS	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAP	P8, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
SG5 Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
outly	Township / City
MISCELLANEOUS	
lese Flow Conditions? (Y/N) _ N _ Date o	figst preoptiation Quentity
hotograph Information:	1977
levaled Turbidity? (Y/N) N Conc	00-10
A CONTRACTOR OF THE PARTY OF TH	A STATE OF THE STA
	Y/N) (Note lieb sample no or ld. and attach results) Lab Number
leld Measures Temp ("CIDasselled Measures	pH (6.U ) Conductivity (µmhos/cm)
The savging reach argresentable of the site	Hair pinese augusts
BIOTIC EVALUATION	
Vertice of (VAI) (I Van, Record of Openhale Act	all advancesces. Volution operations optimal. NOTE all 'swaller' samples must be labeled with the cruit spatiants fall said where time the Primary Medicaln's Usabel Assessment Manual.
ish Observed? (YAI) Voucher? (Y/N)	Salamanders Observed? (Y/N)     Voucher? (Y/N)
ish Observed? (YAI) Voucher? (YAI) Voucher? (YAI) Voucher? (YAI) Voucher? (YAI) Voucher?	vite appropriate field code sheets from the Primary Headwoler Habital Assessment Manusci
Fish Observed? (78) Voucher? (78) Voucher? (78) Voucher? (78) Voucher? (78) Voucher? (78) Voucher?	Salamanders Observed? (Y/N)     Voucher? (Y/N)
Fish Observed? (78) Voucher? (78) Voucher? (78) Voucher? (78) Voucher? (78) Voucher? (78) Voucher?	Salamanders Observed? (Y/N)     Voucher? (Y/N)
vertimosifi (fili) (If Ves, Record of the Control o	volt agastumide fielt die after tie de De Prince's Ned-der Hall die Assessment Manus. ). Stillemanders Observed? (Y/Rh)
interest (thi) (if Yes, fiscard ) interest (thi) (if Yes, fiscard ) interest (thi) (interest (thi) (interest (thi)	Salamander Observed? (VRI)
interest (thi) (if Yes, fiscard ) interest (thi) (if Yes, fiscard ) interest (thi) (interest (thi) (interest (thi)	volt agastumide fielt die after tie de De Prince's Ned-der Hall die Assessment Manus. ). Stillemanders Observed? (Y/Rh)
interest (thi) (if Yes, fiscard ) interest (thi) (if Yes, fiscard ) interest (thi) (interest (thi) (interest (thi)	Salamander Observed? (VRI)
interest (thi) (if Yes, fiscard ) interest (thi) (if Yes, fiscard ) interest (thi) (interest (thi) (interest (thi)	Salamander Observed? (VRI)
interest (A) (If Yes, Reseal a  into Caservar (A) Vese Vese Vese (A)  rogs or Tagbels Caservart (A) Ves  Drawbell Research (A) Vese  Drawling and NARRATI	Salamander Observed? (VRI)
Principal (A)	Salamander Observed? (VRI)
Pertinentif (Ali) (If Ves, Record of the Control of	Salamander Observed? (VRI)
Pertinentif (Ali) (If Ves, Record of the Control of	Salamander Observed? (VRI)
Pertinentif (Ali) (If Ves, Record of the Control of	Salamander Observed? (VRI)
interest (thi) (if Yes, fiscard ) interest (thi) (if Yes, fiscard ) interest (thi) (interest (thi) (interest (thi)	Salamander Observed? (VRI)
Pertinentif (Ali) (If Ves, Record of the Control of	Salamander Observed? (VRI)

	RIVER BAS		DR	AINAGE AREA (mi²)	
ENOTH OF STREAM REACHIN		CHILDRAN	CODE	RIVER VILE	
NOTE: Complete All Items On This Form				/H Streame" for Instru	ction
TREAM CHANNEL INCOME NAME AND	LOWER DY	(LOGES) (D)		RECENT OR NO RECO	VER
SUBSTRATE (Estimate percent of ever (Mex of 40). Add total number of significa TYPE	nt substrate types found ( ERCENT TYPE	Max of 8). Final metric si	edominant s core is sum	of baxes A & B PERCENT	Hi Me Po
		BILT [3 pt] LEAF PACK/WOODY D		ta] -45	Sub
BEDROCK (18 pt)  COBBLE (65-256 mm) (12 pts)	- 88	CLAY OF HARDPAN (D			Ma
GRAVEL (2-84 mm) [9 pts]	5 00	MUCK [0 pte]			1
SAND (<2 mm) [8 ptss]  Total of Percentages of	(A)	ARTIFICIAL [3 pls]		(8)	A.
Bidi Siabs, Boulder, Cobble Bedrock CORE OF TWO MOST PREDOMINATE SUBST	ii bi	TOTAL NUMBER	OF SUBSTI	11311	^
Maximum Fool Depth (Measure the ma			_		Peel
evaluation. Avoid plunge poors from road > 30 centimeters (20 pts)	culvert or storm water p	> 5 cm - 10 cm [16 pt	e bosi		Ha
>22.5 - 30 cm (30 pts)	8	< 5 cm [5 pls] HO WATER OR MOR	T CHANNE	need In	1
COMMENTS	-	MAXIMUM POO	L DEPTH (	centimeters):	
BANK FULL WIDTH (Measured as the	average of 3-4 measurer	nerrie) (Chock > 1 0 m - 1,5 m (> 3' 3'	ONLY one I		es W
> 4 0 meters (> 13') [30 pts] > 3 0 m - 4 0 m (> 9' 7' - 13') [26 pts]	×	s 1.0 m (s 3°3°) [5 pt			Ha
> 1.6 m - 3 0 m (> 4'8" - 9'7") [20 pte]		4 AVERAGE BAI	IKEIN I W	DTH (meters)	Z
COMMENTS		T AVEINGE BA	IN OLL IN	Diff (makere)	-
RIPARIAN ZONE AND FLOODP	This information m	<u>just</u> also be completed DTE <sup>-</sup> River Left (L) and R	ight (R) as l	ooking downstream&	
RIPARIAN WIDTH	L R (Most Preda	<u>TY</u> minant per Bank)	L R		
	Malure Fore		ė.	Conservation Thiage	
Ø ☑ Wide >10m	U luanagna Lo	eva, oniop a cio		Urban or Industrial	
	Field			Open Backwa Row	
☑ Wide >10m	Field	Perk New Field	00	Open Pasture, Row Crop Mining or Construction	

STREAM GRADIENT ESTIMATE
Fig. (6.5 ±100 ft) | Fig. to Moderate

Stream 202 Mod, Class 2 hh. bae. 030216-134 HHEI Score (sum of metrics 1, 2, 3): Primary Headwater Habitat Evaluation Form SITE NUMBER (5) RIVER BASIN LENGTH OF STREAM REACH (S) LAT LOVE RN DATE NO SCORER ONL COMMENTS VETENBELL NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohlo's PHWH Streams" for Instructions STREAM CHANNEL CHANGE CHANGE X RECOVERED STRECOVERING RECEIVED OF NO RECOVERY MODIFICATIONS: BUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE baxes (Max of 40). Add total number of significant substrate substrate byes found (Max of 8). First metric score is sum of baxes. A 4. B HHEI Metric Points pos lound (Max of B) First metric score is stim of bit in the common of BLOR SLASS (16 pts)
BCULDER 1-756 mm) (16 pts)
BEDROCK (16 pt)
COBBLE (85-226 mm) (12 pts)
GRAVEL (2-84 mm) (8 pts)
2440 (-2 mm) (8 pts) PERCENT Substrato Max = 40 20 Total of Persentages of Bidrosk (A)
Bidr Slabs, Boulder, Cobble, Bedrock
E OF TWO MOST PREDOMINATE SUBSTRATE TYPES: (B) TOTAL NUMBER OF BUBSTRATE TYPES: Maximum Feet Dopin (Recours the maximum pool depth within the 61 meter (200 fit oralization reach at the time of evaluation. Avoid plange pools from setual survents or sterm waiter (peer) (Check ONLY one book: > 3cm - 10cm (15 pts) | > 5cm - 10cm MAXIMUM POOL DEPTH (contimeters) COMMENTS BANK FULL WIDTH (Becoured as the overage of 3-4 measurements) (Check ONLY one box) > 4 Omders (> 17) (Borel) > 3 Om - 1.5 m (> 3 3 - 4 87) (Borel) > 3 Om - 4.0 m (> 2 7 - 17) (Borel) > 3 Om - 4.0 m (> 3 7 - 17) (Borel) > 1 0 m - 1 0 m (> 4 8 - 6 7) (Borel) Maxe3B E W, COMMENTS\_ AVERAGE BANKFULL WIDTH Imsters This Information must also be completed

RIPARIAN YOTH

RIPARIAN WIDTH

FOODPLAN QUALITY

FOR THIS PROPERTY LEST CONTROL OF THE PROP RIPARIAN WIDTH

(Per Bank)

Wide >10m

Moderale 5-10m L R Conservation Tillage Residential, Park harw Fash Open Pesture, Nov
Crop
Mining or Construction □□ Nerrow <5m FLOW REGIME (All Time of Evaluation) (Check ONLY one box):
Stream Rowing
Upbyurthos Row with isolated pools (Interdible)
COMMETER
Only channel, no water (Ephemeral)
Ony channel, no water (Ephemeral) STREAM GRADIENT ESTIMATE

	11 -11 -11 -11 -11	140 41121 00012	(If Yes, Allach C	ompleted QHEI Form)	
	REAM DESIGNATED USE	(S)			
WWH Name				islance from Evaluated	
EWH Name		13. III. 10. I		stance from Evaluated	
MAPPING	ATTACH COPIES OF MAN	HICKURING THE EN	THE WATERSHED ARE	A CLEANLY MARK TO	SE SITE LOCATION
SGS Quedrangle l	Name;		NRCS Soll Map Page:	NRCS Sell	dap Stream Order
ounty		Town	ship / City,		
	ANEOUS				
ase Flow Condition	167 [Y/N] Date of	flast precipitation	<u> 71 2</u>	Quentity	_
halograph (nforma	(YN) 1 Cano	345	26		
levaled Turbidity?	(Y/N) Cano	py (% open)			
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ADDITIONAL STREAMINFORMATION (This	information Must Also be Completed;
QHEI PERFORMED? - 🗆 Yes 💢	No QHEI Score(If Yes, Allach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE	
WW/H Name	
DEWH Name	Distance from Evaluated Stream
	PS, INCLUDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
	NRCS Soli Map Page: NRCS Soli Map Streem Order
	Telenolo / City
MISCELLANEOUS	411 19
Base Flow Conditions? (Y/N) Date o	Missi precipitation 3/1-2 Quantity
Photograph Information 2685	22.4
Elevated Turbiday? (Y/N): N Cano	
	YN) N (Note lab sample no or id and allech results) Lab Number
Fleid Messures: Temp (*C) DiaseM	ved Disigran (mg/li) per (10.0.1 Conductivity (prohos/cm)
Additional comments description of pollution m	pids
BIOTIC EVALUATION	
	all observations. Voucher collections optional. NOTE: all youther samples must be labeled with the
,	lude appropriate field data sheets from the Primary Headwaler Habilat Assessment Manual)
Fish Observed? (Y/N). Voucher? (Y/N)	) Salamanders Observed? (Y/N) Voucher? (Y/N) cher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
Comments Regarding Dictory	cherr (YM) Aquatic Matronveneorates Observed / (YM) Voucherr (YM)
Constitution Regulating Co. Co.	
	VE DESCRIPTION OF STREAM REACH (This must be completed):
leadeds important labalreachs and other	features of Information with evaluation and a narrative description of the stream's location
leaded important bitulesaks and often	
leaded important bitulesaks and often	features of Inforest for ally evaluation and a narrative description of the stream's location
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Include important territories and other	features of Inforest for ally evaluation and a narrative description of the stream's location

Moderate lo Severe

Moderate (2 minus)

Moderate to Severe

Stream 204 ChiaPPA Primary Headwater Habitat Evaluation Form

Mod. Class 1

hh-bac 030016-06

BILDR 64-865 [18 des]  BOLIDER (1556 men) (16 pts.)  BOLIDER (1556 men) (17 pts.)  COEBLE (65:26 men) (17 pts.)  GRAVEL (2-44 mm) (8 pts.)  BADIC (2m) (8 pts.)  SADIC (2m) (8 pts.)  Fold of Proceedings of Bid State (15 pts.)  Bid State (1500 Bedrook Bedrook Bid State (1500 Bedrook Bid State (1		BITE NUMBER (20	RIVER BASIN	DRAIN	IAGE AREA (ml²)
MODIFICATIONS:  L SUBSTRATE (Estimate percent of every type of substrate present. Check CAL Y top presonment substrate 77PE source  L SUBSTRATE (Estimate percent of every type of substrate presume. Check CAL Y top presonment substrate 77PE source  TYPE  I SUBSTRATE (Estimate percent of synthesis source than check of a). Final mains score in sum of blaze A & B.  TYPE  I SUBSTRATE (Estimate percent of synthesis source than check of a). Final mains score in sum of blaze A & B.  TYPE  I SUBSTRATE (TS percent TYPE SOURCE STATE TYPE SOURCE OF TWO MOST PREDOMINATE SUBSTRATE TYPES  2 Machineum Reol Depth (Measure this mestimum pool despits within itself or more (700 ft) evaluation react of the line of explatement from 100 to 1	DATE 212/19	SCORER TO	COMMENTS		
Total and Porcentings of Section 1		- 1 Am - 14 - 1744 A		THE RECOVERING OR	ECENT OR NO RECOVER
Total or vecessings or	MAR & 40 AS	S (res pts)  S (res pts)	TYPE  TO SET DAG  THE PACE  CLAY OF HE  MUCK [O P	AMOODY DEBRIS () (MOODY DEBRIS () (MOODY DEBRIS () () () () () () () () () () () () ()	PERCENT M
2 Maximum Pool Depth (Whater pool to not cultural as worm water pipes) (Check ONLY one box):	Bldr Slebs Boul	der Cobble, Bedrock	0	L NUMBER OF SUBSTRA	TE TYPES
> 30 centimeters (70 pts)	> 30 centimeters	ut plurge pools from ross culvert (20 pts) 30 pts)	(Che	ek ONLY one box): 0 cm [15 pts] pis]	

>3.0m	eers (> 12) [10 pre] - 4.0m (+ 0 T   13) [25 pts] - 2.0m (+ 4 E - 9 T) [20 pts] Ign(18		08 610	AVERAGE B	•	DTH (Holors)
	RIPARIAN ZONE AND FLO	OODPLAIN QUA	Information <u>must</u> ali LITY & NOTE: RI PLAIN QUALITY	so be complete ver Left (L) and	ed Right (R) as i	ooking downstream \$
LR	(Per Bank)	L R	(Most Predominent		L R	Conservation Tillage
	Wide >10m Moderate 5-10m	DD INK	Meture Forest, Well Immature Forest Si Field		00	Urban or Industrial
an	Narrow <5m	00	Residential, Park, N	lew Field	00	Open Pasture, Row Crop
00	None. COMMENTS	00	Fenced Pesture		00	Mining or Construction
	FLOW REGIME (At Time or Stream Flowing Extraction with lands COMMENTS		22		nel, isotaled pi I, noweter (E <sub>l</sub>	ools an flow (intermittent) phamerai)
	SINUOSITY (Number of bu None 0,5	nds per 61 m (20	00 R) of channel) (Ch	2.0 2.5	box):	3.0
BTRE	AM GRADIENT ESTIMATE	Пим	lerate (2 trions)	☐ Moderate	lo Severe	☐ Sevel# L

s) idam	203
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QHEI PERFORMED? - TYES NO QHEI Score	(If Yes: Atlach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
☐ WWH Name,	Dislance from Evaluated Stream
CWH Name	Dislance from Evaluated Stream
T CWM Hame	Distance from Evaluated Sweats
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ST	NTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Hirra	NRCS Soil Mep Page' NRCS Soil Map Stream Order
County. Town	rehin / City
MISCELLANEOUS	
Base Flow Conditions? (Y/N). Date of lest precipitation.	Vol Alia
	Quantity
Photograph Information	2.11-
Elevated TurbigRy* (Y/N) Cerropy (% open)	
Were samples collected for water chemistry? (Y/N). $N$ (Note Ia)	b sample no or id and allach results) Lab Number:
Field Measures: Temp (°C)Dasolved Oxygen (*rgl)	Conductivity (µmhas/cm)
Is the sampling reach representative of the stream (YAN)	pivose explain
The state of the s	
Asstronal commerkations of pollution impacts:	
BIOTIC EVALUATION	
NI.	
Performed? (Y/N) (If Yes Record all observations, Vouch	er confections optional NOTE all voucher samples must be labeled with the
Performed? (Y/N) (If Yes. Record all observations. Vouch ID number: include appropriate field date.	eer coriestrons optional. NOTE all voucher samplee must be labeled with the dis sheels from the Primary Headwaler Habiliel Assessman's Manual)
Performed? (Y/N) (I/Yes Record all observations, Vouch ID number Include appropriate field date Fish Observed? (Y/N) Salamenders (	ner orderhons opkonst. NOTE all vocuber samples must be labeled with the fa wheets from the Primary Headwater Habital Assessment Menus) Observed? (YM). Vocuber? (YM)
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DOITIONAL STREAM INFORMATION (This inform	sation their Alice has Commissionity
	IHEI Score (If Yes, Allach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
	Distance from Evaluated Stream
	Distance from Evaluated Stream
EWH (INTE	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INC	CLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
1993 Overzegy Name	NRCS Soll Map Page NRCS Soll Map Stream Order
County.	Township / City
MIRCELLANEOUS /	
lase Flow Conditions? (Y/N) Date of last p	recipitation Quantity.
holograph Information	
Devaled Turbidity? (***) Canopy (%	more 7/1)
	Note (Note (ab sample no or id and attach results) Lab Number
	rygen (mg/l) pH (S U ) Conductivity (µmhos/cm)
	A) If not, please extent
BIOTIC EVALUATION  Tenformed? (V/h) ((Y/se, Record all observations). Relations to the control of the	
BIOTIC EVALUATION  BIOTIC EVALUATION  (If Yes, Record oil obe (I) number, becade oil obe (I) number, b	arvalons. Voudher collections optional. NOTE: all voucher earnples must be labeled with the ab propriets field data shreeks from the Primary (Headhelfer Habilat Assessamen's Namusa)
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BIOTIC EVALUATION  BIOTIC EVALUATION  Performed? (Y/A) ((I*Yee, Record all other   Do number. Bedude up from the actude of the actude	avabons. Voucher collections optional. NOTE: all voucher samples must be labeled with the abspropriate field data sheeks from the Primary Head-eater Habilat Assessment (Manual)  Salamanders Observed? (V/N) Voucher? (Y/N) Voucher? (
BIOTIC EVALUATION  BIOTIC EVALUATION  Performed? (Y/A) ((I*Yee, Record all other   Do number. Bedude up from the actude of the actude	avabons. Voucher collections optional. NOTE: all voucher samples must be labeled with the abspropriate field data sheeks from the Primary Head-eater Habilat Assessment (Manual)  Salamanders Observed? (V/N) Voucher? (Y/N) Voucher? (
BIOTIC EVALUATION  BIOTIC EVALUATION  Informed? (1/A) (If Yee, Recard all other Interformed? (1/A)) Voucher? (1/A)  Voucher? (1/A) Voucher? (1/A)  Drawing Bology  DRAWING AND NARRATIVE D	avabons. Voucher collections optional. NOTE: all voucher samples must be labeled with the abspropriate field data sheeks from the Primary Head-eater Habilat Assessment (Manual)  Salamanders Observed? (V/N) Voucher? (Y/N) Voucher? (
BIOTIC EVALUATION  BIOTIC EVALUATION  Performed? (Y/A) ((I*Yee, Record all other   Do number. Bedude up from the actude of the actude	avabons. Voucher collections optional. NOTE: all voucher samples must be labeled with the ske propriete field data sheeks from the Primary Headwaler Habilist Assessment Manual).  Salamanders Observed? (V/N)

Moderate (2 8/20 t)

Moderate to Severe

STREAM GRADIENT ESTIMATE

Fig. (0.5 1/100 a) Fig. 10 Moderate

Mod. Class 1 Sucam 206 hh-bae 00014 :4 Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3) : DRAINAGE AREA (m²) LAT. LONG. LONG. COMMENTS COM LENGTH OF STREAM REACH (8) \_\_\_ DATE SCORER WILL NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CHANNEL DINONE NATURAL CHANNES, MISCOVERED RECOVERING DRECENT OR NO RECOVERY MODIFICATIONS: 8UBSTRATE (Estimate percent of every type of substrate present. Check ONLY two procuretiest substrate types found (Max of 40). Add total number of significant substrate types found (Max of 8). Final number sector is sum of lea HHEI Metric Points Types (curd (Max of 8) Final minora.

TYPE

I SILT [3 pd]

Off LEAF PACKWOODY

FINE DETRITUS [3 pc]

CLAY or HARDPAN

MUCK [0 pbs]

ARTIFICIAL [3 pds] PERCENT SILT [3 pt]
LEAF PACKWOODY DEBRIS [3 ptm]
FINE DETRITUS [3 ptm]
CLAY or HARDPAN [0 pt] BLDR SLABS [16 pte] BOULDER (>256 mm) [16 pte] Substrate Max = 40 BEDROCK [16 pt] COBBLE (66-256 mm) [172 GRAVEL (2-64 mm) [6 pla BAND (-2 mm) [6 pl COBBLE (66-256 mm) [12 pts] 9 GRAVEL (2-84 mm) [9 pts] Total of Percentages of
Bidr Stabs, Boulder, Cobble, Bedrock
TE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 10TAL NUMBER OF SUBSTRATE TYPES Maximum Post Depth (Measure the maximum pool de, evaluation. Avoid pump pools if the road culverts or starn > 35 continuous [20 pox] oth within the fit exchanged fit evaluates much at the time of S cm - 10 cm (15 pts)
S cm - 10 cm (15 pts)
S cm (15 pts) 5 COMMENTS 2.6 AVERAGE BANKFULL WIDTH FREETS 15 5 This information <u>must</u> also be completed

RIPARIAN ZONE AND FLOODPLAIN QUALITY WHOTE River (.eft (.)) and Right (R) as looking down

RIPARIAN WIDTH

FCOOPPLAIN QUALITY

(Per Bank)

Wide > 10m

Mature Forest, Welshald

Moderate 5-10m

Mod RIPARIAN WIDTH

RIPARIAN WIDTH

RIPARIAN WIDTH

Wide >10m ☐☐ Urban or Industrial Open Peature, Row
Crop
Mining or Construction Residential, Perk New Field

Fenced Pasture Namow <5m
None

QHEI PERFORMED? - Tyes No	QHEI Score (If Yes Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE/S)	
	Dislance from Evaluated Stream
DWH Maine	Distance from Evaluated Stream
O EVALUATION	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, I	INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE BITE LOCATION
USGS Quadrangle Name:	NRCS Soll Map Page:NRCS Soll Map Stream Order
County	Toeschil/City
MISCELLANEOUS	
Base Flow Conditions? (YAV): National last	st pre-opilation 3/1 Country
Photograph information	2 you printed 2 1 20 Billing 2
N 1	(% coent: 25
Were samples collected for water chemistry? (Y/N):	(Note lab sample no or id and attack results sub-livered)
Field Measures Temp (°C) Dissolved 0	Oxygen (mg/l) pH (S U ) Conductivity (µmhos/cm)
is the sampling react representative or the absorb	Wan Y If not, please expisin:
Additional committees that profess and unit of the con-	я.
estational constructional services as production aspects	4
The second secon	
MOTIC EVALUATION	
Performed? (Y/N): (If Yes, Record all ob	bservations. Voucher collections optional NOTE: all voucher samples must be lebeled with
ID number include i	appropriate field data sheets from the Primary Headwater Habitet Assessment Manual)
Fish Conserved? (YAI) / Voucher? (Y/N)	Selamanders Observed? (Y/N) Voucher? (Y/N)
regs or Taccoles Courves (Y/N) Voucher	Selamanders Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N) Voucher? (Y/N) Voucher? (Y/N) Voucher? (Y/N)
Comments Regarding Motogy	
DRAWING AND NARRATIVE	DESCRIPTION OF STREAM REACH (This must be completed):
Include important landmarks and other feat	dures of interest for site avaluation and a narrative description of the stream a local
	7373
	1.51
	1 01
FLOW	7 101
	K 250 186
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	Q <sub>D</sub>
	(Ca)

	hh-bae-osoz
DOITIONAL GIREAM INFORMATION	H (This information Migs. Also be Completed);
QHEI PERFORMED? - TY	res 🖟 No QHEI Score(II Yes, Altach Completed QHEI Form)
DOWNSTREAM DESIGNAT	
WWH Name	Distance from Evaluated Stream  Distance from Evaluated Stream
EWH HAVE	Distance from Evaluated Stream
MAPPING: ATTACH COPIES	OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
SGS Quadrangle Name	NRCS Soil Map Page: NRCS Soil Map Stream Order
nunty:	Township/City
MIRCELLANEOUR	
ase Flow Conditions? (VIII)	Date of facil precipitation 3 Quantity:
olograph Information	Submit J.
	Cenopy (% open)
	istry? (Y/N) (Note lab sample no or id and attach results) Lab Number
	Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
the sampling reach representative of	the stream (Y/N) If not, please (+pts=
	on advanta (1177) 11(OL, PERSON SPEED
BIOTIC EVALUATION  Ifformed7 (Y/N).  (N Yes,	ulton impestits.  Reccrd all observations. Voucher collections options). NOTE: all voucher semples must be labeled with at include appropriate field data absects from the Printerly Herndows er Habilist Assessment Manual)
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BIOTIC EVALUATION  Ifformed7 (Y/N).  (N Yes,	ulton impestits.  Reccrd all observations. Voucher collections options). NOTE: all voucher semples must be labeled with at include appropriate field data absects from the Printerly Herndows er Habilist Assessment Manual)
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BIOTIC EVALUATION  BIOTIC EVALUATION  Informed? (Y/N). (If Yes, 1) Dinumb  In Observed? (Y/N). Vouche  Observed? (Y/N). Soorers Stepseding Bodge.  DRAWING AND NAR	Otton Impetats  Record all ubservations. Voucher colladions optional. NOTE: all voucher samples must be labeled with ser. Include appropriate field data sheets from the Primary Handwate Habitat Assessment Manual)  17 (Y/N) Ballsmanders Observed? (Y/N) Voucher? (Y/N)
BIOTIC EVALUATION  BIOTIC EVALUATION  Informed? (Y/N). (If Yes, 1) Dinumb  In Observed? (Y/N). Vouche  Observed? (Y/N). Soorers Stepseding Bodge.  DRAWING AND NAR	Ollon Impetits  Record all observations. Voucher collections options. NOTE: all voucher samples must be lisbeled with  arr. Include appropriate field data sheets from the Prinney Handwater Habited Assessment Manual)  72 (Y/N)
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BIOTIC EVALUATION  BIOTIC EVALUATION  Informed? (Y/N). (If Yes, 1) Dinumb  In Observed? (Y/N). Vouche  Observed? (Y/N). Soorers Stepseding Bodge.  DRAWING AND NAR	Otton Impetats  Record all ubservations. Voucher colladions optional. NOTE: all voucher samples must be labeled with ser. Include appropriate field data sheets from the Primary Handwate Habitat Assessment Manual)  17 (Y/N) Ballsmanders Observed? (Y/N) Voucher? (Y/N)
BIOTIC EVALUATION  FROM TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	Otton Impetats  Record all ubservations. Voucher colladions optional. NOTE: all voucher samples must be labeled with ser. Include appropriate field data sheets from the Primary Handwate Habitat Assessment Manual)  17 (Y/N) Ballsmanders Observed? (Y/N) Voucher? (Y/N)
BIOTIC EVALUATION  FROM TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	Otton Impetats  Record all ubservations. Voucher colladions optional. NOTE: all voucher samples must be labeled with ser. Include appropriate field data sheets from the Primary Handwate Habitat Assessment Manual)  17 (Y/N) Ballsmanders Observed? (Y/N) Voucher? (Y/N)
BIOTIC EVALUATION  FROM TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	Otton Impetats  Record all ubservations. Voucher colladions optional. NOTE: all voucher samples must be labeled with ser. Include appropriate field data sheets from the Primary Handwate Habitat Assessment Manual)  17 (Y/N) Ballsmanders Observed? (Y/N) Voucher? (Y/N)
BIOTIC EVALUATION  BIOTIC EVALUATION  Informed? (Y/N). (If Yes, 1) Dinumb  th Observed? (Y/N). Vouche ogs or Tedpolas Cosylved? (Y/N).  DRAWING AND NAR	Otton Impetats  Record all ubservations. Voucher colladions optional. NOTE: all voucher samples must be labeled with ser. Include appropriate field data sheets from the Primary Handwate Habitat Assessment Manual)  17 (Y/N) Ballsmanders Observed? (Y/N) Voucher? (Y/N)

PHWH Form Page - 1

STREAM GRADIENT ESTIMATE
Flat (0.5 M/100 a) | Flat to Moderate

FLOW REGALE (At Time of Enteration) (CARRA ONLY one box)
Stream Flowing
Subsurface flow with is called pools (interetible)
College (18)
Only channel, no water (Ephemeral)

NAMEA OCATION 11 4 L-	are seen yearson	
	RIVER BASIN DRAINAGE AREA (m)	
OTH OF STREAM REACH(#)	LAT, LONG. RIVER CODE RIVER MI	LE
E SILVE SCOTTER VIV	The converts Cally Epiteral	_
OTE: Complete All Items On This F	Form - Refer to "Field Evaluation Manual for Ohlo's PHWH Streams" for	Instruction
REAM CHANNEL DINONE	NATURAL CHANNEL ARECOVERED TRECOVERING RECENT OF NO	RECOVERY
DIFICATIONS:		
- 10	Control View and Advantage TV/File	
(Max of 40). Add total number of sig	If every type of substrate present. Check ONLY have predominant substrate TYPE box gnificant substrate types found (Mex of 6). Final metric score is sum of boxes A & B.	I HH
	PERCENT TYPE PERCENT	Mei Poi
PE   BLDR SLABS [15 ptv]   BOULDER (>256 mm) [16 ptv]		
BEDROCK [16 pt]	FINE DETRITUD (3 pts)	Subs
COBBLE (65-256 mm) [17 pts]		
GRAVEL (2-64 mm) [fl pts] SAND (<2 mm) [6 pts]	MUCK (D pte)	11 4
		_   _
Total of Percentages of Bidr Stabs, Boulder, Cobble, Bedroo		3 A1
RE OF TWO MOST PREDOMINATE 6	UBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES:	
Maximum Pool Darsh (Mossum th	he maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Poul C
evaluation. Avoid plumps pools from	road culvers or storm water pipers; (Check DNLY one box)	мах
> 30 centimoters [20 etc] = 22.5 - 30 cm [33 pm]	3 + 5 cm - 10 cm (15 pts) + 5 cm f5 pts)	1 4
= 10 - 22.5 cm (21 pla)	MO WATER OR MOIST CHARGE [6 616]	
COMMENTS	2" MAXIMUM POOL DEPTH (SHAMMANN)	$e_{-}$
		Barri
	s the everage of 3-4 measurements) (Check ONLY one best	Wic
> 4 0 meters (> 13) [30 pts] > 3 0 m - 4 0 m (> 0' 7' - 13') [25 pts]		Mac
	e Acet	15
> 3 0 m - 4 0 m (> 9" 7" - 13") [25 pto]		3
> 3 0 m - 4 0 m (> 9'7' - 13') [25 pte] > 1 5 m - 3 0 m (> 4'8' - 9'7') [20 pte	AVERAGE BANKPULL WIDTH (MONTH)	5
> 3 0 m - 4 0 m (> 6° 7" - 13°) [25 pte] > 1 5 m - 3 0 m (> 4° 6" - 6° 7°) [20 pte  COMMENTS  RIPARIAN ZONE AND FLO	AVERAGE BANKFULL WIDTH (INTERFE)  This Information must also be completed  ODDPLAIN QUALITY 2hOTE River Left (1) pan Riph (R) as localing down simum	5
> 30 m - 4 0 m P 0 77 - 137 [25 ptg] > 15 m - 30 m (> 4 0 7 - 6 77) [20 pts  COMMENTS  RIPARIAN ZONE AND FLO  RIPARIAN WIDTH	This Information must also be completed  TOODPLAIN QUALITY  FLOOPPLAIN QUALITY  THOOPPLAIN QUALITY  THOOPPLAIN QUALITY  TOODPLAIN QUALITY  TOODPLA	5
> 30 m - 4 0 m (> 0 7 - 13) [Z5 ptd] > 15 m - 30 m (> 4 8 - 6 7) [20 ptd  COMMENTS  RIPARIAN ZONE AND FLO  RIPARIAN WIDTH  L R (Per Bank)	This Information must also be completed  THOSPILAN QUALITY  LR (Mod Predominal per Bank)	
> 30 m - 4 0 m (> 0 m - 10) [Z5 ptd] > 15 m - 30 m (> 4 0 m - 6 7 7) [20 ptd  COMMENTS  RIPARIAN ZONE AND FLO  RIPARIAN WIDTH  L (Per Bank)	This information must also be completed  This information must also be completed  DODPLAIN QUALITY - ShOTE: River Left (1) and Right (R) as localing down-timenr  LR Clood Perdomanay has Banky  LR Glood Predomanay has Banky  Allow Forst, Wetland	nia ege
> 3 0 m - 4 0m - 6 0 p - 137 [25 psg] > 1 5 m - 3 0 m - 4 0 p - 0 p - 177 [20 pts]  COMMENTS  RIPARIAN ZONE AND FLO  RIPARIAN MOTH  R (Per Bank)  Moderate 5-10m	This Information must size be completed  ODDPLAN QUALITY SHOTE River Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE River Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE RIVER Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE RIVER Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE RIVER Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE RIVER LEFT (1) and River L	in the same and th
> 3 0m - 4 0m - 6 0° - 137 [25 peg] > 1 5 m - 3 0m - 4 0° - 6 0° - 137 [20 pts]  COMMENTS  RIPARIAN ZONE AND FLO  RIPARIAN WIDTH  L R (Per Bank)  Wide > 10m    Macros = 5m	AVERAGE BANKFULL WIDTH (interest)  This information must also be completed  DODPLAIN QUALITY ArtOTE: River Left (1) and Riph) (R) as looking down-direar  LR (Mode Pradomnan) per Bank)  DR (Mode Pradomnan)  DR (Mode Pradomnan)	age oil ow
> 3 0 m - 4 0m - 6 0 p - 137 [25 psg] > 1 5 m - 3 0 m - 4 0 p - 0 p - 177 [20 pts]  COMMENTS  RIPARIAN ZONE AND FLO  RIPARIAN MOTH  R (Per Bank)  Moderate 5-10m	This Information must size be completed  ODDPLAN QUALITY SHOTE River Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE River Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE RIVER Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE RIVER Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE RIVER Left (1) and Right (R) as looking downstream  FLOODPLAN QUALITY SHOTE RIVER LEFT (1) and River L	age oil ow
> 3 0m - 4 0m - 6 9F - 137 [28 psg] > 1 5m - 3 0m - 4 9F - 67 7] [20 pts  COMMENTS  RIPARIAN ZONE AND FLO  RIPARIAN MOTH  R (Per Bank)  Moderate 5-10m  Names = 5m  None  COMMENTS	This Information must also be completed  This Information must also be completed  DODPLAIN GUALTY ANOTE River (set it) and Right (R) as looking downstream  FLOODPLAN GUALTY  L R (Mod Predomnan) per Renk) L R  Conservation This  Immable Force, Webnd  Immable Force, Webnd  Residential Park New Fleld  Residential Park New Fleld  Fenced Pasture  Mining or Constru	age oil ow
> 3 0m - 4 0m o e 9 7 - 137   25 peg) > 1 5 m - 3 0m o e 4 9 - 0 77   (20 pts)  COMMENTS  RIPARIAN ZONE AND FLO  RIPARIAN MOTH  R (Per Bank)  Moderate 5-10m  Noose  COMMENTS  FLOW REGIME (Al Time of  Stream Flowing	This information must also be completed  This information must also be completed  DOPPLAN GUALTY AFOTE River (set it) and Right (R) as looking downstream  FLOOPPLAN GUALTY  LR (Mod Prindomnan par Benk)  Mining Fores, Welshof  Itematistic fores, Welshof  The Residential Park New Field  Residential Park New Field  Residential Park New Field  Fencert Parkure  Mining or Constr.  Mining or Constr.  Mining or Constr.	and age all ow
> 3 0m - 4 0m - 6 P - 137 [25 pag) > 1 5 m - 3 0m - 4 (P - 6 P ) [20 pag  COMMENTS  RIPARIAN MODIN  (Per Bank)  (Moderate 5-10m  (Moderate 5-10m  (Moderate 5-10m  (Moderate 6-10m  (Moderate 6-1	This information must also be completed  This information must also be completed  DOPPLAN GUALTY AFOTE River (set it) and Right (R) as looking downstream  FLOOPPLAN GUALTY  LR (Mod Prindomnan par Benk)  Mining Fores, Welshof  Itematistic fores, Welshof  The Residential Park New Field  Residential Park New Field  Residential Park New Field  Fencert Parkure  Mining or Constr.  Mining or Constr.  Mining or Constr.	and age all ow
> 3 0m - 4 0m - 6 P - 137 [25 peg) > 1 5 m - 3 0m - 4 (P - 6 7 7) [20 pts  COMMENTS  RIPARIAN MODTH  R (Per Bank)  P (Per Bank)  Moderate 5-10m    harve-sm    hoose   COMMENTS  FLOW REGIME (Al Trimo of Comment	AVERAGE BANKFULL WIDTH (INNERT)  This information must also be completed DODPLAIN QUALITY	and age all ow
> 3 0m - 4 0m - 0 0m - 1. 127   28 peg   15 m - 3 0m - 0 4 10m - 0 10m   120 peg   15 m - 10 m   120 peg   15 m - 10 m   10 m - 10 m   15 m -	This Information must also be completed  ODDPLAIN GUALITY 2-h10TE: River Left (1) and Riphi (R) as localing down-sinear  COOPLAIN GUALITY  A (000 Perdominant per Bank)  R (000 Perdominan	and age all ow
> 3 0m - 4 0m - 0 0 7 - 107   12 peg   15 m - 3 0m - 0 4 15 - 107   120 pet   COMMENTS  RIPARIAN ZONE AND FLO RIPARIAN ZONE AND FLO RIPARIAN MIDTH    Part	This Information must also be completed  This Information must also be completed  DODPLAIN GUALITY  ArtOTE: River Left (1) and Right (R) as localing down sinear  LR (Moder Pradominant per Bank)  LR (Moder Bradominant per Bank)  Reflection of the State	and age all ow
> 3 0m - 4 0m - 0 0 7 - 107   12 peg   15 m - 3 0m - 0 4 15 - 107   120 pet   15 m - 3 0m - 0 4 15 - 107   120 pet   RIPARIAN ZONE AND FLO RIPARIAN MIDTH P. (Pet Bask) P. Vode > 10m   Moderale 5-10m   RIPARIAN STATE   RIPARIAN	AVERAGE BANKFULL WIDTH (INNERT)  This information must stee be completed  DODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - ShOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - SHOTE River (et (1) and Right (R) as looking downstream  FLOODPLAIN GUALITY - SHO	age al above suction

							6-7
	757	C (USSE)	and a second second	HHEI Score (	sum or me	tracs 1, 2, 0) .	
TE NAME A OC	NTF NUMBER		RIVER RASIN		DR	AINAGE AREA (ml²)	
MIE 5/2/	The state of the s		MMENTS	cohemistal		AWER MILE	_
NOTE: Comp	plete All Items On This Fo						
TREAM CHA				OVERED A RECO	OVERING [	RECENT OR NO REC	DVERY
MODIFICATIO	DINGS TL WOOD	TUMAL	locating				
GUBST	RATE (Estimate percent of e	very type of s	ubstrate present	Check ONLY two p	oredominani s	ubstrale TYPE baxes	1
(Max of	40) Add latel number of signi	Ficant substrate	e types found (Me TYPE	x of 8) Final metric	score is sum	PERCENT	HHE! Metric
	R SLABS [16 pts]	FERCENT		LT [3 pf]		40	Points
	ULDER (>256 mm) [16 pts] DROCK [16 pt]			NE DETRITUS (3 p		III]	Belistrat
	BBLE (65-256 mm) [12 pts]	5		LAY or HARDPAN			Max = 41
	AVEL (2-84 mm) [8 pfs]	30		UCK [0 phd]			117
O SAM							
	VD (<2 mm) [8 pls]			RTIFICIAL [3 pls]			
To Blok Ste	del of Percentages of		(A) 12	1		(B)	A + B
Bldr Ste			(A) 12	TOTAL NUMBE	N OF SUBSTI	12 2	A + B
Blok Ste	olel of Percenluges of the Boulder, Cobble, Bedrock D MOST PREDOMINATE SUE THE PAGE DESTRIBUTE THE	Appelmum po	(A) 12	TOTAL NUMBER	evaluation in	MATE TYPES	Pool Dep
Bldr Ste	olel of Perceninges of the, Boulder, Cobble, Bedrock D MOST PREDOMINATE SUE am Pool Depth (Messure the on: Avoid plungs pools from	Appelmum po	(A) 12	TOTAL NUMBER	evaluellos in see boul.	MATE TYPES	
Bldr Ste	olel of Percenlages of ba, Boulder, Cotble, Bedrock D MOST PREDOMINATE SUS um Pool Depth (Measure the on: Avoid plungs pacts from a directors (20 pts)	Appelmum po	(A) 12	TOTAL NUMBE: be 61 swine (2001) C (Check DALY o - 5 cm - 10 cm [15 p - 5 cm [5 pts]	evaluation re see book ds:	MATE TYPES.	Pool Dep
Bidr Ste CORE OF TWO evaluati > 30 10 - 2	old of Percentages of bs., Boulder, Cobble, Bedrock of MOST PREDOMINATE SUE am Pool Depth (Messure the on Avoid grange parts from a threess 120 pts) 30 cm (10 pts) 2 cm (13 pts)	Appelmum po	(A) 12	TOTAL NUMBER to 61 meter (200 Hz) to 10 lock DNLY 5 cm - 10 cm (15 pt) cm (5 pts)	evoluellor re see boul risi	nate types	Pool Dep Max = 3
Bidr Ste CORE OF TWO	old of Percentages of bs., Boulder, Cobble, Bedrock D. MOST PREDOMINATE SUE am Pool Depth (Messure the on. Avid plange pauls from a deresses (20 pts) 30 cm (20 pts) 20 cm (23 pts)	Appletrum po	(A) 2	TOTAL NUMBER be 81 miner (200 fg) c) (Check ONLY of 5 cm - 10 cm [15 cm   5 cm   5 phs] vo water or mo	evaluation in one book inst CHANNE OOL DEPTH (	AATE TYPES.  ach at the time of  2 to pas;  Section:	Pool Dep Max = 3
Bldr Ste CORE OF TWO evaluati > 30 cm	olal of Percentages of bs., Boulder, Cobble, Bedrock bs., Boulder, Cobble, Bedrock bw. Both of Post of	Appletrum po	(A) 12	TOTAL NUMBER  be 81 menor (200 ft)  c) c(Deck DNLY*  5 cm (5 pts)  c) water on Mo  maximum PC  ths) (Check	HEF CHANNE	AATE TYPES.  ach at the time of  to past  you're ach  committee by:	Pool Dep Max = 3
Bldr Ste CORE OF TWO  evaluate  30 con  10 - 2  COMMIS  A 0 ms  3 3.0 m  3 3.0 m	odal of Percenlages of to, Boulder, Cobble, Bedrock box Services of the Services am Pool Depth (Measure the on. Avoid plurge point from a profession 125 pts) 35 cm; [25 pts] 25 cm; [25 pts] 55 cm; [25 pts] FULL WIDTH (Measured as II pts) (15 pts) 15 pts; [25 pts] 15 pts	Appletrum po	(A) 2	TOTAL NUMBER be 81 miner (200 fg) c) (Check ONLY of 5 cm - 10 cm [15 cm   5 cm   5 phs] vo water or mo	evaluation in see book inst CHANNE book DEPTH I K ONLY one to 3° - 4'8') [15]	AATE TYPES.  ach at the time of  to past  you're ach  committee by:	Pool Dep Max = 3
Bldr Sta CORE OF TWO	del of Persenlages of bs. Boulder, Cotobe, Bedrock box 60 F PRED OWN ATE SUL am Pool Diptin, Messure and an Avoid purpage parts from a stropes (20 sts) 30 cm (20 sts) 30 cm (20 sts) 2.5 cm (25 sts) Extra ULL WIDTH (Messured as I tester (> 13) 10 (pre) 4.4 cm (> 9 T = 15) (35 pts) 3.9 cm (> 4 6 ° 6 ° 7 ) (20 sts)	Appletrum po	(A) 2	TOTAL NUMBER  TOTAL NUMBER  OF Check (MLY	evaluetta in see boxi insi HET CHANEE DOL DEPTH I K ONLY one to 37-4'87 [15;	Act	Pool Dep Max = 3
Bidr Ste CORE OF TWO	del of Persenlages of bs. Boulder, Cotobe, Bedrock box 60 F PRED OWN ATE SUL am Pool Diptin, Messure and an Avoid purpage parts from a stropes (20 sts) 30 cm (20 sts) 30 cm (20 sts) 2.5 cm (25 sts) Extra ULL WIDTH (Messured as I tester (> 13) 10 (pre) 4.4 cm (> 9 T = 15) (35 pts) 3.9 cm (> 4 6 ° 6 ° 7 ) (20 sts)	Appletrum po	(A) 2	TOTAL NUMBER  TOTAL NUMBER  COMMENT  Som - 10 cm [15 a  Som   5 ptg  WAXIMUM PO  This  Check  10 m 1.5 m (- 5)	evaluetta in see boxi insi HET CHANEE DOL DEPTH I K ONLY one to 37-4'87 [15;	Act	Pool Dep Max = 3
Bldr Sta CORE OF TWO	del of Persenlages of bs. Boulder, Cotobe, Bedrock box 60 F PRED OWN ATE SUL am Pool Diptin, Messure and an Avoid purpage parts from a stropes (20 sts) 30 cm (20 sts) 30 cm (20 sts) 2.5 cm (25 sts) Extra ULL WIDTH (Messured as I tester (> 13) 10 (pre) 4.4 cm (> 9 T = 15) (35 pts) 3.9 cm (> 4 6 ° 6 ° 7 ) (20 sts)	BBTRATE TYPE	(A) 12 Des: 12	TOTAL NUMBER  TOTAL NUMBER  TOTAL MUMBER  TOTAL MUMBER  TOTAL MUMBER  TOTAL MUMBER  MAXIMUM PO  TOTAL MUMBER  TOTA	ANKFULL WI	Act	Pool Dep Max = 3
Bldr Ste CORE OF TWO	del of Persenlages of bs. Beolder Cottole, Bedrock bs. Beolder Cottole, Bedrock on Most PREDOMINATE SUI am Pool Diptin, Messure also no Avoid pulper genals from a softment (20 pts) 30 cm plo 64 in 25 cm (25 sts) extra contract of the softment of the soft	AMERICAN PROPERTY OF THE AMERICAN PROPERTY OF	(A) 12 Des: 12	TOTAL MUMBEL  to the bit mem (200 fg)  check ONLY  string to the complete  MAXIMUM PC  MAXIMUM PC  MAXIMUM PC  AVERAGE BA  AVERAGE BA  miso be complete	evaluation in see book in the control of the contro	Act	Pool Dep Max = 3
Bldr Ste CORE OF TWO	odel of Percentages of bis, Beolider, Cadoble, Bedrock bis, Beolider, Cadoble, Bedrock bis, Beolider, Cadoble, Bedrock bis, Beolider, Cadoble, Bedrock bis, Bedro	BRITATE TYPE  Installment pion  and coliveria or  the average of  This  TRUSH  FLOCO	(A) 12 DES: 12 DISTRIBUTION OF CONTROL OF CO	TOTAL MUMBEL  to the server (200 fg)  check (MLY 4)  so check (MLY 4)  maximum PC  trial  (Check  trial  (Check  trial  (Check  trial  (Check  trial  (Check  trial  (AVERAGE BA  AVERAGE BA  also be complete  River Laft (L) and	evaluation in see box.  INST CHANGE  OOL DEPTH I  K ONLY one to  37-4'87 (15 fe)  INKFULL WII  d  Righ) (R) as fe	nate types  and a the time of  1. (6) etc.  1. (6) etc.  1. (6) etc.  1. (7) etc.  1. (8) etc.	Pool Dep Max = 3
Bldr Ste CORE OF TWO	del of Persenlages of bs. Beolder Cottole, Bedrock bs. Beolder Cottole, Bedrock on Most PREDOMINATE SUI am Pool Diptin, Messure also no Avoid pulper genals from a softment (20 pts) 30 cm plo 64 in 25 cm (25 sts) extra contract of the softment of the soft	AMERICAN PROPERTY OF THE AMERICAN PROPERTY OF	(A) 22 E8: 2  Information must be added to the added to t	TOTAL NUMBER  TOTAL NUMBER  CONSTRUCTION  CONSTRUCTION  TOTAL NUMBER  CONSTRUCTION  TOTAL NUMBER  TO	evaluation in see book in the control of the contro	nate types  and a the time of  1. (6) etc.  1. (6) etc.  1. (6) etc.  1. (7) etc.  1. (8) etc.	Pool Dep Max = 3
BANKI > 3.0 mm   15 mm	del of Persenlages of bs. Beolder Cottole, Bedrock bs. Beolder Cottole, Bedrock on Most PREDOMINATE SUI una Pool Diploth (Messure and Control of Cottol of C	BRITATE TYPE  Installment pion  and coliveria or  the average of  This  TRUSH  FLOCO	(A) 12 68: 12 60 depth within to start and control of the start and con	TOTAL NUMBER  TOTAL NUMBER  CONSTRUCTION  CONSTRUCTION  TOTAL NUMBER  CONSTRUCTION  TOTAL NUMBER  TO	evicetion is see too.  SEET CHANGE  ROOL DEPTH (  K ONLY one to 3"-4"8") (15 se)  ANKFULL WII  d  Righ) (R) as fe	ATE TIPES  and at the time of  Library  Joseph J.  Jose	Pool Dep Max = 3
Bids Sha Core of Two	del of Percentages of bis, Boulder, Cabble, Bedrock bis, Boulder, Cabble, Bedrock bis, Boulder, Cabble, Bedrock bis, Boulder, Cabble, Bedrock bis, Boulder, Bedrock bis, Bedrock bis	BRITATE TYPE  Angulation and policy and poli	(A) 22 od death within is storm which is storm whic	TOTAL MUMBEL  be 81 cases (20.10)  10. (Class (No.1)  5 cm - 10 cm ts (No.1)  5 cm - 10 cm ts (No.1)  10. (Check (No.1)  11. (MAXIMUM PC 10.1)  12. (Check (No.1)  13. (No.1)  14. (No.1)  15. (No.1)  16. (No.1)	entropy on the control of the contro	ACT TIPES  ach at the line of  topics  Construint and  Conservation Tillage  Urban or flucture. Row	Pool Dep Max = 3
Bold She CORE OF TWO	del of Percentages of bs. Boulder, Cabble, Bedrock bs. Boulder, Bedrock bs. Bed	BRITATE TYPE  Impactment gio  and culveria or  the average of  This  DPLAIN QUAL  A PROPERTY OF THE PROPERTY O	(A) 22 od death within is allowed to the state of the sta	TOTAL NUMBER  be of some (200 fg)  c) (These (200 fg)  c) (The c)	ent change and the control of the co	ATE TIPES  and at the time of  Library  Joseph J.  Jose	Pool Dep Max = 3
Bold She CORE OF TWO	del of Percentages of to, bedder Catalon, Bedd	BRITATE TVF  Inschmum go and culveria or  This  DPLAIN QUARTE  POST  POS	(A) 22 ordesit within a storm with a storm within a storm withi	TOTAL NUMBER be of same (200 fg) controlled to the controlled to t	embed is see book	ach at the fine of  the party  Act of the fine of  the party  Act of the fine of  The fine of  The fine of  Conservation Tillage  Under of industrial  Open Pesture. Row  Cop of pesture. Row	Pool Dep Max = 3
Bids She Core of Two London Core of Two London Core of Two London Core of London Core	del of Percentages of bs. Boulder, Cabble, Bedrock bs. Boulder, Bedrock bs. Bed	Answeringer of the average of the av	(A) 12  ocidental within 1st and the statement of the sta	TOTAL MUMBER  THE STATE OF THE	MARKFULL WIT	ach at the fine of  the party  Act of the fine of  the party  Act of the fine of  The fine of  The fine of  Conservation Tillage  Under of industrial  Open Pesture. Row  Cop of pesture. Row	Pool Dep Max = 3

QHEI PERFORMED? - LI Yes XI No QHEI	Score (If Yes Atlach Completed QHEI Form)
DOWNSTREAM DESIGNATED USEED)	
WWH Name	Distance from Evaluated Stream
CWH Heard:	Distance from Evaluated Stream
DEWH Name	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUS	DING THE ENTIRE WATERBHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Overtrange Hamo	NRCS Soli Map Page NRCS Soil Map Stream Order
County:	Township / Cily
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Date of last preci-	utation
Pholograph information 30 30	L
Pholograph information 40 Canopy (% ope	n): 43-10
Were samples collected for water chemistry? (Y/N):N	[Nicle lab sample no or id and attach results) Lab Number
Freid Measures Temp (*C) Dissolved Oxyger	n (mg/l) pH (S,U ) Conductivity (µmhos/em)
is the sampling reach representative of the stream (Y/N)	If not, pressu explains
ECORS EVALUATION Performed?   Y.P.I.   (II Yes, Record all observed)	iona. Voucher godastisms optiodell: NOTE: jul koulitier wengeles must as lett eleg with the
EXTR. TVALUATION  OI Yes, Record all chaeval 10 number include appropriate 10 number (VM). Salings of Testional Observed (VM). Valuation (VM). Valuation (VM).	ione. Vousher colassissis agaboel. NOTE: all voushes sergales num les leis elle sim britais feld data ahnele for the Plinary Headwater Habitat Assessment Manual samanders Observed? (V/N)
ECOR. TVALUATION  Performed   Y/Ni	riate field data wheels from the Pilmery Headwater Habital Assessment Manual
Performed? (YAN) (If Yes, Record all observable include appropriate include include include include including appropriate include appropriate incl	inse field data eheels from the Plimary Headwater Habital Assassment Manuals amanders Observed? (V/N) Voucher? (V/N) Aquatic Macroinvenethreles Observed? (V/N) Voucher? (V/N)  CRIPTION OF STREAM REACH (This <u>must</u> be completed):
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Performed? I/Aii (If Yes, Record all observation include appropriate include appropriate include a	inse field data eheels from the Plimary Headwater Habital Assassment Manuals amanders Observed? (V/N) Voucher? (V/N) Aquatic Macroinvenethreles Observed? (V/N) Voucher? (V/N)  CRIPTION OF STREAM REACH (This <u>must</u> be completed):
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ADDITIONAL STREAM INFORMATION (THIS IS	
	lo OHEI Score(If Yes, Allach Completed OHEI Form)
DOWNSTREAM DESIGNATED USED	S) Distance from Evaluated Stream
CWH Name	Distance from Evaluated Stream
D EWH Mate!	Distance from Evaluated Stream
MAPPING ATTACH COPIES OF MAP	IL INCLUDING THE <u>ENTIRE</u> WATER DIED AMEA. GLEARLY MARK THE SITE LOCATION
UNGS Guadrangie Name	NRCS Soil Map Page: NRCS Soil Map Streem Orde
County	Township / Oty
MISCELLANEOUS	
Base Flow Conditions? (Y/N) Deterol	last precipitation. 3/1 Quantity.
Produced Into-series 21 doil	21.68
Elevated Turbidity? (Y/N); N Canon	Q
	N): Note list sample no or id and attach results) Leb Number
Field Measures Temp (°C) Dissolve	d Oxygen (mg/l) pH (S U ) Canductivity (µmhas/cm)
to the comment of the	m (Y/N) / If not, please excellen
	ods
AGESTICAL EVALUATION	odi:
ADSERTED SUMMERS ADSERTED AND ADDRESS AND ADSERTED AND ADSERTED AND ADSERTED AND ADSERTED AND ADDRESS AND ADSERTED AND ADDRESS AND A	ch servetkone. Voucher collections optional NOTE silvoucher samples must be lebided
Adaptional commentations or policies are sense of policies are sense of policies are sense of policies are sense of policies and policies are sense of pol	odis.    deservations. Voucher collections optional   NOTE #I voucher samples must be labeled
Abstional commentation of polystics are:  BOTIC EVALUATION  Performed? (YAR)  Fina Conserved? (YAR)  Fina Conserve	ocks :  I observations. Voucher calledins optional. NOTE all voucher samples must be labeled to a specific fact of all checks from the Primary Hasheld of Hobital Aspessment (famus).  Salammotiers (Ocknewood (VIII). Voucher (VIII).
BOTIC EVALUATION  Performed? (YM) (K Yee, Record of Desires and De	odis.  Observations. Vourber collections optional NOTE all vourber samples must be labeled to be appropriate fact onto sheets from the Primary Hastowister Habital Accessment Statusus).
Additional commentations or point of polystics are:  BIOTIC EVALUATION  Performed? (VAI)  Fina Colominate: (VAII)  Fina Colominate: (VAIII)  Fina Colominate: (VAIII)  Fina Colominate: (VAIII)  Fina Colominate: (VAIIII)  Fina Colominate: (VAIIIII)  Fina Colominate: (VAIIIIIIIII)  Fina Colominate: (VAIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ocks :  I observations. Voucher calledins optional. NOTE all voucher samples must be labeled to a specific fact of all checks from the Primary Hasheld of Hobital Aspessment (famus).  Salammotiers (Ocknewood (VIII). Voucher (VIII).
Additional commentations or point of polystics are:  BIOTIC EVALUATION  Performed? (VAI)  Fina Colominate: (VAII)  Fina Colominate: (VAIII)  Fina Colominate: (VAIII)  Fina Colominate: (VAIII)  Fina Colominate: (VAIIII)  Fina Colominate: (VAIIIII)  Fina Colominate: (VAIIIIIIIII)  Fina Colominate: (VAIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ocks :  I observations. Voucher calledins optional. NOTE all voucher samples must be labeled to a specific fact of all checks from the Primary Hasheld of Hobital Aspessment (famus).  Salammotiers (Ocknewood (VIII). Voucher (VIII).
Additional commentations reported in the Section of Section Incomes  BOTIC EVALUATION  Performed? (VR)   (If Yes, Record of Countries, Section (VR)   Voucher? (VR)   VR)   Voucher? (VR)   VR)   VR)	chservations. Voucher calledions optional NOTE all voucher samples must be labeled to appropriate field onto arbeits from the Primary Headwaler Habital Aspessment Manual)  — Salamanders Observed? (Wh)
BOTIC EVALUATION  BOTIC EVALUATION  (If Yes, Record at Countries Seeing	ocks :  I observations. Voucher calledins optional. NOTE all voucher samples must be labeled to a specific fact of all checks from the Primary Hasheld of Hobital Aspessment (famus).  Salammotiers (Ocknewood (VIII). Voucher (VIII).
BOTIC EVALUATION  BOTIC EVALUATION  (If Yes, Record at Countries Seeing	cot servitions. Voucher collections optional. NOTE all voucher samples must be labeled to september the best described and a sheet from the Primary Haudwiller Habitat Assessment Manual).  Salamanders Observed? (V/N) Voucher? (V/N) Voucher? (V/N) Aquatic Macridinvertebrates Observed? (V/N) Voucher? (V/N)
BOTIC EVALUATION  BOTIC EVALUATION  (If Yes, Record at Countries Seeing	cot servitions. Voucher collections optional. NOTE all voucher samples must be labeled to september the best described and a sheet from the Primary Haudwiller Habitat Assessment Manual).  Salamanders Observed? (V/N) Voucher? (V/N) Voucher? (V/N) Aquatic Macridinvertebrates Observed? (V/N) Voucher? (V/N)
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BOTIC EVALUATION  BOTIC EVALUATION  Performed? (Viris) (If Yes, Record at Countries Settle	cot servitions. Voucher collections optional. NOTE all voucher samples must be labeled to september the best described and an advantage in the best described from the Primary Haudwater Habitat Assessment Manual).  Salamanders Observed? (V/N) Voucher? (V/N)

☐ Moderale (2 1/100 to

PKWH Form Page - 1

☐ Moderate to Severe

TENAMEACICATION IN SITE NUMBER	outs. V	vater Habitat Evalua HHEI Score (	sum of m	etrics 1, 2, 3) :	28
ENGTH OF STREAM REACH (N)	LAT	LONG. RIVE			
NOTE: Complete All Items On This F		PENNENTS PARISON MARKET FOR	hin's PH	Ald Streams" for Instr	uctions
		NNEL MRECOVERED RECO	VERING L	J RECENT OR NO RECO	JVERY .
MODIFICATIONS:	-I- KON	.)			
SUBSTRATE (Estimale percent of	overv lype of s	substrate present. Check ONLY two	redominant	substrate TYPE boxes	
(Max of 40) Add total number of sign	lficant substrat	a types found (Max of 8). Final metric	core is sum	of boxes A & B.	Metric
TYPE    I   BLDR SLABS [16 pts]	PERCENT	TYPE SILT (3 pf)		PERCENT 20	Points
BOULDER (>258 mm) [18 pts]		I J LEAF PACKAWOODY		rts]	Bubstrate
□ □ BEDROCK [16 pt]		☐☐ FINE DETRITUS [3 p		46	Max = 40
COBBLE (85-258 mm) [12 pts] GRAVEL (2-84 mm) [8 pts]	16	MUCK [0 ph)	u ptj		12
□ □ SAND (<2 mm) [6 ple)		ARTIFICIAL [3 pis]			10.0
Total of Percentages of		(A)		(0)	A+B
Bldr Slabs, Boulder, Cobble Bedrock		7			7.5
CORE OF TWO MOST PREDOMINATE SU	BSTRATE TYP	PES: TOTAL NUMBER	OF SUBBI	RATE TYPES	
Maximum Pool Depth (Measure the	e maximum so	of depth within the 61 number (200 ft)	evaluations	roch at the time of	Pool Dept Max = 30
> 30 cantimeters [20 pts]	DONE CHIMMEN OF	(Check ONLY of bem - 10 cm (15 p	ne box)		
>72.5 - 30 cm (30 prs)		Sem 10 on (15 p Sem 15 pts) No water on Mo		m that I	15
> 10 - 22.5 am [23 pts]	_	11		Vorten 5	
COMMENTS		MAXIMUM PO	OL DEPTH	(cirthmeters)	
BANK FULL WIDTH (Measured as I	he average of	3-4 measurements) (Check	OMLY one		Bankfub
>4.0 meters (> 13) (30 pros) >3.0 m -4.0 m (> 0 T : 13) (25 pros)		> 1.0 m - 1.6 m (> 3';		ptel	Max=36
>1.5m -2.0m > + 8" - 9 7) [70 pte)		per s nom (s e o ) to be	•,	4 ( 20)	-
COMMENTS		AVERAGE BA	NKFULL W	DTH-HOSTER	1.3
	This	Information must also be completed	1		
RIPARIAN ZONE AND FLOO	DPLAIN QUA	LITY ANOTE: River Left (L) and I	Right (R) as	formenterwob gnikool	
RIPARIAN WIDTH  L R (Per Benit)	L R	PLAIN QUALITY (Most Predominent per Bank)	LR		
Wide >10m	Ŏΰ	Mature Forest, Wetland	0.0	Conservation Tillage	
AU CU WIGE FIUM	対図	Immalure Forest Shrub or Old Field		Urban or Industrial	
Moderate 5-10m			00	Open Pasture Row	
☐ ☐ Moderate 5-10m		Residential, Park, New Fleid			
/ <u>-</u>		Fenced Pasture	00	Crop Mining or Construction	

CHEIPERFORMEDY - LI YES IN No OHE	Score(If Yes Allec	Completed QHEI Form)	
DOWNSTREAM DESIGNATED USE(S)			
WWH Name		Distance from Evaluated Stream	
GWH teaple		Distance from Evaluated Stream	
EWIN Name		Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUI	DING THE <u>ENTIRE</u> WATERSHED A	REA. CLEARLY MARK THE SITE LOS	CATION
555 Quadringe Warner	NRCS Soil Map Pe	ge: NRCS Soil Map Stream	Order _
AND LANGUE OF THE PARTY OF THE	Young / Otx		
MISCELLANEOUS			
ase Flow Conditions? (Y/N) N Date of last pres	pitation	Quantity	
tolograph Information			
evaled Turbidity? (Y/N) Cenopy (% ope			
fe:e samples collected for water chemistry? (Y/N)	(Note lab sample no or id an	deltach results) Lab Number	
eld Measures Temp (°C) Dissolved Oxyger	n (mg/l) pH (SU)	Conductivity (pmhos/em)	
the sampling reach representative of the stream (Y/N)_			
			_
ddillone) comments/description of pollution irrugal.			
	ions. Voucher collections optional	VOTE: all voucher semples must be let-	eled with
## (If Yes, Record #I observation ### (Yes, Record #I observation ### (Yes, Record #I observation #### (If Yes, Record #I observation #### (If Yes, Record #I observation #### (If Yes, Record #I observation ####################################	rialo field suda sheem from the Prom	ry Headwaler Habital Assessment Man	um)
arformed? (Y/N) (If Yes Record all observati	rialo field suda sheem from the Prom	ry Headwaler Habital Assessment Man	um)
arformed? (Y/N) (If Yes, Record all observable ID number, include appropriate ID number, include appropriate ID number (Y/N) Salogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N)	rialo field suda sheem from the Prom	ry Headwaler Habital Assessment Man	um)
uflormed? (Y/N) (If Yes. Record all observation of the property of the	riate helt aufa sheeth from the Plant semenders Chemoved? (1714) Aquello Macrochversturative	ry Hendwaler Habitat Assessman Man Voucher? (V/N) Observed? (V/N) Voucher? (Y/	(N)
urformed? (Y/N)	emanders Cherched from the Post	(r) Hendwaler Habital Assessmand Man Vouchel? (Y/N) Observed? (Y/N) Voucher? (Y,	ed):
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urformed? (Y/N)	calcifold and about the ter Plan.  Canadan Canadan (17th)  According Vaccobs englished  CRIPTION OF STREAM RE	(r) Hendwaler Habital Assessmand Man Vouchel? (Y/N) Observed? (Y/N) Voucher? (Y,	ed):
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I Yes, Allach Completed GHEI Form)  Distance from Evaluated Stream  Distance from Evaluated Stream  Distance from Evaluated Stream  Distance from Evaluated Stream  TERSHED AREA CLEARLY MARK THE SITE LOCATION  Soll Map Page:  NRCS Soll Map Stream Order
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Quantity
no or id and attech results) Lab Number
(15.U.) Conduction parameters
plain Conditioning (providence)
1042
ns aphanel. NOTE, an voyabler sumples must be labeled with the on the Primary Houseader Habital Assessment Matmah
(Y/N) Voucher? (Y/N) vveriebrates Observed? (Y/N) Voucher? (Y/N)
REAM REACH (This mint be completed):
p Q
100

Moderate to Severe

	nch Betch	Sc.	DEF (=c0)	& Affillation:		(Wire well
er Code:	sect ONLY Two subst	TORET #:	Lat/Lor		_ /8_ ,	Office sort
BEST TYPE	S	OTHER TYPES	POOL RIFFLE	ORIGIN	NE (Or 2 & average)	UALITY
BLDR /SLABS [	10	HARDPAN [4]	5 0	LIMESTONE [1]	SILT DWO	AVY [-2] DERATE (-1) Sub
COBBLE (6)		D MUCK [2]	30 50	WETLANDS (0) HARDPAN (0)	□ NOI	RMAL [0]
SAND [6]	15 10	ARTIFICIAL [0]	D	BANDSTONE [0] RIP/RAP [0]	SED DEON MO	DERATE (-1)
MBER OF BES	T TYPES: \$\times 4 or	more [2] sludge from less [0]	n point-sources) 📙		DEON DEXT	RMAL (0) NE (1)
mments	772			COAL FINES [-2]		
NSTREAM CO	VER trescale present quality, 2-blods bly in moderation or great allow used consequent of NKS [1]	xxx (1 to 3. 0-Abrenti irale amounte, but no	5-Vory small amount of highest quality o	ts or if more common or in small amounts	of highest Check O	MOUNT NE (Or 2 & average
mater tog that is st	MAC 141.	infrant in deep / fast	water, or direct, well	delined, functional OWS. BACKWATE	RS [1] MODE	ISIVE >75% [11]
OVERHANGING	VEGETATION [1]	HOOTWADS BOULDERS	III AGU	ATIC WACROPHY	Polii - mine	E S-28% (P) LY ADDEMT +6% (S
REOTMATS [1]		_			, ;	Cover
mments			1			20
CHANNEL MOR	PHOLOGY CHECK	CHANNELI	MULIA	SIMBILITY		
(IGH [4]	☐ EXCELLENT [7]  ☐ GOOD [5]	NONE [8]	4] [4	] HIGH [3] NODERATE [2]		
.OW [2]	FAIR [3] POOR [1]	RECOVERING RECENT OR N	[3] RECOVERY [1]	LOW [1]		Channel Maxi num
mments 36	7	14		2		20
BANK EROSIC	N AND RIPARIA	N ZONE Dex OF	NE in much cathgory FLOOR	PLAIN QUALI	TV	Mg .
EROSION NONE / LITTLE		50m [4] ATE 10-50m [3]	PONEST, SWA	MP [3]	CONSER	VATION TILLAGE
MODERATE [2]	☐ ☐ NARRO	W 5-10m [3]	E SHRUB OR OF	PARK NEW FIELD	IN CO MINING	CONSTRUCTION
	NONE [	AMHUW < 5m [1] [ ]	D FENCED PASTU	HE MOWEROP [0]	past fillim raan	in Riperion
mments \	9	5		150		M xim
POOL/GLIDE	AND RIFFLE / A	UN QUALITY INEL WIDTH		ENT VELOCITY		eation Potential
Check ONE (OM.)	Ch Charle 1904	THE COLOR PROJECTION	Chie	KALL that apply	Prit Seco	nary Contact Indary Contact
20.2 (m (4)	D POOL WIDTH	I > FIFFLE WIDTH (2 H = RIFFLE WIDTH (1 H > RIFFLE WIDTH (0	D VERY FAST	(1) DELOW [1] DINTERST!	TENT [-2]	w to 3 standard (in Fig. 4)
02-c0.4m [1]		i .	PLACOPERATE	rench - pools and in	1	Pool / Current
mments I		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	All de la constant d	Ð	Charles and the Control	Marenon 17
Indicate for fa	inctional riffles;	Best areas mus Creck	the large enough	igh to support	a population	INO RIFFLE (met
DIFFE F DEOX	DI DIIN D	EDTH DIE	ELE / BUN SUB	STRATE RIF	FLE / RUN EMB	EDDEDNESS
	m (2) MAXIMUN	I < 50cm [1] ☐ MOD	STABLE (e.g., La TABLE (e.g., Fine C	rge Gravel) [1] Gravel, Sand) [0]	[] row[i]	TE (0) HITTMA
meli meli	ic=0)		1		DEXTENSIV	E [41] Attached
GRADIENT (	5 Nml) IN VE	Y LOW (2-4)	45	POOL: (30)	*GLIDE:	Graphent
DRAINAGE AF	REA DMD	DERATE (6-10) H - VERY HIGH (10-		- Company		
	Y.OSmin □ Hig		1) %	RUN: (4))	MARIFFLE:	Solie ashe
44585	1.08 110	Mod: Ca				111
44585			uoa 1 r Habitat Ev	hh-bge-C valuation F	030116-13 orm	111
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cam 2 12 Chists	Primary	Mod , Ca Headwater	MA 1  Habitat Ev  HHEI Sc  ER BASIN  LONG	hh-bae-C valuation F core (sum of ma	030  (~ 13 orm etrics 1, 2, 3) ;	3916
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Sleam 213 Fair Warmwolfer_	Stream 213	/
OhioEPA Qualitative Habitat Evaluation Index and Use Assessment Field Sheet QHEI Score:	TAREASUPEMENTS  Lausen-TOE (**)  The ASSUPEMENTS  Lausen-TOE (**)  The Assured (**)	1 1 3/
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II SUBSTRATE Chuck CALYTER SUBSTRATE TYPE BOXES Check ONE (0/28 average)	se de colonn, co.  Eucleh T REA SUIPE T REPRINGED T CO. T SUPE T SUP T SUPE T SUP	
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O GRADLE(7)  G GRAPEL(7)  G SAND(6)  O SITIFICIAL [0]  D SAND(6)  S SAND(6)	SES VIND PRINTED PROPERTY OF TANKED PROPERTY OF TANKED TO SERVE OF TAN	200
BEDROCK (5)   (Score natural substrates; ippore   Lacuraturane (9)   Maximum   Maximum   NUMBER OF BEST TYPES:   4 or more [2] sudge from point-sources   Lacuraturane (9)   Mone (1)   Mone (1)	SSSUE PPDES	Janous Ja
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2] INSTREAM COVER Indicate presence 0 to 3. C-Abuset: 1-Viry small arrowned of involvement of many common of marginal AMOUNT quality; 3-Models and example, to the state a traverse of Mobil Colleck ORE (or 2 & awarder) and common of the comm	PP/CS PENE POTO MIND/M MID/M MID/M MID/M MR// MR//	1
custory, 3 - Highest quality, in measurem or greater amounts (or g. very large horizons inclined and administrative that is stable, well can expect recovered in usery 1 had varied; or doesn, well defined, functional pools [11] EXTENSIVE >75% [11]	WWW WWY WWW WWW WWW WWW WWW WWW WW WW WW	- *
UNDERCOT BARKS [1] ROOTWADS [1] AQUATIC NACROPHYTES [1] BPARSE 6—25% [3]  OVERHAND OF VEGETATION [1] ROOTWADS [1] LOGS OR WOODY DEBRIS [1] NEARLY ABSENT 45% [1]	Othro,	FE / A
	Day NAMA	1 33
Comments	2 em	7
S) CHANNEL MORPHOLOGY Chack DINE in eight case, pay (0.7.2 à avenue): SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY  LINUITY DEVELOPMENT CHANNELIZATION CHA	hisery	TE /
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4) BANK EROSION AND RIPARIAN ZONE Chest ONE in anch chargery by EACH BANK (Cr. 2 par bank 8 average)  FINDARIAN WIDTH    RIPARIAN WIDTH   ROSION	INVIET TO PROPERTY OF THE PARTY	4,
EROSION   Manue - som (4)   G FOREST SWAMP (1)   G GORDAN CHOST TIAL (6)   G GORDAN CHOST TIAL (	DJ MA	
☐ ☐ MODERATE [2] ☐ □ VERY HARROW = 10m [1] ☐ □ FENCEO PASTURE [1] ☐ □ VERY HARROW = 10m [1] □ □ FENCEO PASTURE [1] □ □ VERY HARROW = 10m [1] □ □ FENCEO PASTURE [1] □ □ VERY HARROW = 10m [1] □ VERY HARROW = 10m [	MAY AND	* \ \/2
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MAXIMUM DEPTH Check ONE (ONLY) Condact Secondary Contact	FE FREELY DOORS FE FREELY ALESTHETC ALARE ALARE FEST MENDON TO CONTROL ALARE FEST MENDON TO CONTROL ALARE EDGE FOR THE CONTROL ALARE ALARE EDGE FOR THE CONTROL ALARE EDGE FOR THE CONT	51
0.7-<1m [4] POOL WIDTH = RIFFLE WIDTH [1] VERY FAST [1] INTERSTITIAL [-1]  0.0-4-0.7m [2] POOL WIDTH > RIFFLE WIDTH [0] VERY FAST [1] UNITERSTITIAL [-1]	A A E S TA E S T	<u> </u>
0.2~0 4m [1]	NAME OF STATE OF STAT	
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Comments  Indicate for functional riffles; Best areas must be large enough to support a population ONG INFLET INSTANCTION OF THE INSTANCTION OF TH		
RIFFLE PLEPTH  RINN DEPTH RINN DE	ED REACH STAGE No straighter and str	
BEST AREAS - Som           MAXIMUM - Soom             MOD. STABLE (e.g., Large drawell   1)	NEACH   NEACH   NEACH   NEACH   NIGHT   NIGH	
Comments  6] GRADIENT, II Nomin [] VERY LOW-LOW [44] %POOL: (((C)) %GLIDE (((U)) Decision ((C))	A J SAMPLER REACH Creek Lib along the BEAT Creek Lib along the Cre	\
6] GRADIENT   11 N(mi)   ) VERY LOW LOW [5-4] DRAINAGE AREA   0 MODERATE [6-10] DRAINAGE AREA   0 MODERATE [6-10] WRUN: (L) %RIFFLE: (1)	A J SAMPLE, Orce, L. METHOD, N. METHOD, N. METHOD, N. MAGE CONCERN CONTRIBUTION OF CONTRIBUTIO	1
(4,28 mil) [] High-Vary man [10-6]	\$ 20000 000000 00000 00000 15	
	sheart 14	
hoom 214 Mod. Chas 4 Works	Sheart )14	h) - 44 - 11+
Primary Headwater Habitat Evaluation Form	ADDITIONAL DIREAM INFORMATION (TITS) Information Must Also be C	prepared).
HHEI Score (sum of metrics 1, 2, 1)	QHEI PERFORMED? - 17 Yes 1 No O'HEI Score	(if Yes, Allach Completed QHET Form)
STE HAMEA OCATION DIE (	DOWNSTREAM DESIGNATED USE(S)	Distance from Evaluated Stream
LENGTH OF STREAM REACHING LAT LONG RIVER MILE LONG RIVER MILE LONG RIVER MILE COMMENTS JOHN	O EVAN Name	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	WATERBHED AREA. CLEARLY MARK THE SITE LOCATION
STREAM CHANNEL DINGNE NATURAL CHANNEL DIRECTORERED RECOVERING DIRECTOR NO RECOVERY	USGS Quadrang/e Name NR	CS Soil Map Page NRCS Soil Map Stream Order
MODIFICATIONS: QYAMOV / CHANNEL PLA	CountyTownship/	Cily
SUBSTRATE (Estimate percent of every type of substrate present). Check OVLY two predominant substrate TYPE bases (Wax of 40). Add (dat number of significant substrate types barnet (Max of 6). Final metric score is sum of bases A 8. B  HHEI Metric  PERCENT  PERCENT  Metric  **Type:**  **Type:	MIBCELLANEOUB  Bese Flow Conditions? (Y/N) Date of last precipitation	Quantily.
TYPE   PERCENT TYPE	Finding spir titrogramm	
☐☐ BEDROCK [16 pt] ☐☐ FINE DETRITUS [3 ptw] Wax = 40	Devoted Turbday (YA) N Canopy (Nagon)	
□□ GRAVEL (2-84 mm) [8 pts] <u>10</u> □□ MUCK [0 pts)	Were samples collected for water chamistry? (Y/N):	ole no críd endettsch results) Lab Number:
Total of Percentages of (A) , (B) A + B	the state of the s	pH (S.U.)Conductivity (µmhos/cm)
BIGN Slebs, Boulder, Cabble, Bedrock	In the energing reach representative of the stream CVPD	count
Maximum Pool Depth (Measure the maximum pool depth within the 6f meter (200 ft) availables reach at the time of the second from tood curvers or after settle pages (Check ONLY one box):     (Check ONLY one box):	Adobosal commercialistic plans of projection imperial	
> 30 continuers (20 pts) > 5 cm - 10 cm (15 pts) > 22 5 - 39 cm (15 pts) 97 + 5 cm (50 pts)		
1" 3000	BIOTIC EVALUATION	
S BANK FULL WIDTH (Nexured as the average of 3.4 measurements) (Check ONLY one bast) Bankfull	Performed? (Y/N) (If Yes. Record all observations. Vougher colle IO number include appropriate field data shee	ctions optional. NOTE, all voucher samples must be fabeled with the site its from the Primary Headwater Habital Assessment Manual).
> 4 0 meters (> 15) [30 pts]	Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observ	ed? (Y/N)Voucher? (Y/N)Voucher? (Y/N)
OMMENTS  AVERAGE BANKFULL WIGTH (analysts)	Frogs or Tedpoles Observed? (Y/N) Voucher? (Y/N) Aquelic Ne	**************************************
COMPANY		
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY ShiOTE: River Left (L) and Right (R) as fooking downstream &  RIPARIAN MODEL  FOR ANY OF THE COMPLIAN DUALITY  FOR ANY OF THE COMPLIAN DUALITY		g-specialists
RIPARIAN WIOTH  LR (Per Bank)  LR (Mod Prodominant per Bank)  Mids > 10m	DRAWING AND NARRATIVE DESCRIPTION OF Include important landmarks and after testures of interest for alle-	
☐☐ Moderate 5-10m ☐☐☐ Immeture Forest, Shrub or Old ☐☐ Urben or Industrial	ta	
Resulte nilate   Partit New Field     Open Pesture, Row Crop Crop   Open Pesture   O   Manie   Open Pesture   O   Manie   Open Pesture   O   Manie   Open Pesture   O   Open Pesture   Ope	167	
COMMENTS	* *	1.17
FLOW REGIME (Al Time of Evaluation) (Check ONLY one box) Stream Rowing Subjectice flow with isolated pools (interstitial) Objectives flow with isolated pools (interstitial) Organization, or water (Ephemerica)	FLOW	N.E.
COMMENTS_		100
SINUO 91TY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):		

Senting ....

FROM Firm Page

Stream 215

E NAMEA O		mi the P	2100	HHEI Score			
NOTH OF T	SITE NUMBER	LAT	LON	3 RI	VER CODE	AINAGE AREA (mi²) RIVER MILE	
11 4/201	D SCORER YALL		MENTS	TMI			_
IOTE: Com	plete All Items On This F						
TREAM CH	The Color of the C	DAID OU		COVERED ZONE	DOVERING L	RECENT OR NO RECOV	VEHT
	A comment	The same of	1			total symptom i	-
BBUB B xeM)	TRATE (Estimate percent of (40). Add (old) number of sig	fevery type of s milican! substrate	typės lõund (	int: Check ONLY <u>iwo</u> dax of 6). Final metri	opredominants le score is sum i	of boxes A & B	HH Met
YPE BL	DR SLABS [18 pts]	PERCENT	TYPE M L	SILT [3 pl]		PERCENT	Poli
J ∩ Bo	ULDER (>258 mm) [16 pts]		00 00	FINE DETRITUS D		a) <u>30</u>	Subst
	DROCK [16 pt] BBLE (65-256 mm) [12 pts]		56	CLAY or HARDPAN			Max
	(2-84 mm) [8 pts]	_15_	00	MUCK [0 pls] ARTIFICIAL [3 pls]			9
_	ND (<2 mm) [8 pfs]			Wettercian fa best		(B) P	A+
Bld: Si	l'olat of Percentages of abs, Boulder, Cobble, Badron		(A)			1311	A +
	O MOST PREDOMINATE S				ER OF SUBSTI		_
Marin	non Pool Depth (Measure ti tion Avoid pungs pools from	he maximum po	ol depth with	the 61 meter (200	ft) evaluation re	ach at the lime of	Pool L
4.55.00	ntimeters (20 pts)	india raiseira o		> 5 cm - 10 cm [11 < 5 cm [5 pts]	pla)		-
	- 30 cm [30 pts] 22 5 cm [22 pts]		R	NO WATER OR N			2
COM	ENTS		b	MAXMUMI	POOL DEPTH	Continuence):	
			3.4 measuren	entel (Che	ck ONLY one b		Back
BANK	FULL WIDTH (Measured as	the average of					
BANK   >40m   >30m	eters (> 13) [30 pcm] - 40 m (> 0° 7° - 13°) [25 ptv]		8	> 1.0 m - 1.5 m (>: < 1.0 m (< 3'3') [3			Max
BANK >40m >30m	etera (> 13) [30 pcm]		Ø	> 1.0 m + 1.5 m (>: ≤ 1.0 m (≤ 3'3') [3	pte)	And 25	S
BANK   >40m   >30m   >15m	eters (> 13) [30 pcm] - 40 m (> 0° 7° - 13°) [25 ptv]		8	> 1.0 m + 1.5 m (>: ≤ 1.0 m (≤ 3'3') [3		And 25	2
BANK   >40m   >30m   >15m	eters (> 13) [30 pcm] - 40 m (> 6° 7° - 13) [26 ptm] - 3.0 m (> 4° 6° - 6° 7°) [20 ptm] IENTS	a]	Information (	> 1.0 m - 1.5 m (>:	DANKFULL WA	DIR Alectana 25	5
BANK   >40m   >30m   >15m	eters (2-13) [30 pm] -4 0 m (2-6" 7" - 13") [25 ptr] -3.0 m (2-6" 8" -8" 7") [20 ptr] HENTS RIPARIAN ZONE AND FLC	This	Information (	> 1.0 m - 1.5 m (>:	DANKFULL WA	And 25	2
BANK >40m >30m >15m	#ders (> 13) [30 poi] - 40 m (> 10' T - 13) [25 ptd] - 40 m (> 10' T - 13') [25 ptd] ####################################	This DODPLAIN QUAI FLOOD L R	Information must be a vicinity of the country of the country of the country (Most Predo	> 1.0 m - 1.5 m (>: < 1.0 m (< 3'3') D  AVERAGE  LEST also be comple  OTE: River Leff (L) an  Y  minant per Bank)	nte)  BANKFULL WA  Ided  Id Right (R) as it	other 25	S
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BANK >40m >30m >15m	### (* 13) [31] poil - 40 m : P of "- 13" [25 piel] - 3.0 m : P of " of	This cooperation of the cooperat	Information in The Stan QUALITY SANGUALITY CHOOSE Predo Melure Fore knimature Foreign Choice Produce P	> 1.0 m ~ 1.5 m (> 1.0 m (< 3.3°) [3 AVERAGE	BANKFULL WA	cooking downstream the Conservation Tillage Urban or Industried Open Pasture Row	S
BANK >40m >30m >15m	erers (+ 13) [30 pm] - 40 m; p 0 m - 13) [25 pm] - 3.0m (> 4" 8" - 18" 7") [20 pm] EENTS  RIPARIAN ZONE AND FLC  RIPARIAN WIDTH  ((Per Bank)  Wide > 10m  Maderata 5-10m  Narrow <5m	This coopelain qual FLOOD	Information in The Stan QUALITY SANGUALITY CHOOSE Predo Melure Fore knimature Foreign Choice Produce P	> 1.0 m - 1.5 m (> 1.0 m (< 3.37) D  AVERAGE  AV	Ited  Ited	cooking downstream &  Conservation Tillage Urban or Industrial	2
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BANK >40m >30m >15m	eters b 13 (10 ped)  - 10 m p 0" - 13 (15 ped)  - 3.0m p 4" 0" - 19" 7) (20 ped)  EENTS  RIPARIAN ZONE AND FLC  RIPARIAN WIDTH  (Per Bank)  Wide > 10m  Modernts 5-10m  Narrow < 5m  None  COMMITTE  FLOW REGIME (Al Time o	DODPLAIN QUAR FIGODO L R TO T	Information grant of the control of	> 1.0 m < 1.5 m P: \$ 1.0 m (\$ 3 3 T) E \$ 1.0 m (\$ 3 3 T) E  AVERAGE  Interpretation of the company  Transal per Band  Tr	BANKFULL WAR AND	conservation Tiliage Urban or Industriel Open Pesture Row Crop Mening or Construction	2

m 216	Mo	rd Class:	2 h	h bar-02/116
ChieF	Primary Head	water Habitat	Evaluation For	m 20
	1000 II.C. 1000	HHEI	Score (sum of metr	lcs 1, 2, 3) :
ITE HAMEA OCATION	SITE NUMBER OF	RIVEN BASIN	DRAI	HAGE AREA (m/)
ENGTH OF STREAM	BEACH (F) (AT	10463	RIVER CODE	RIVER MILE
		COUNCING CITIS		

MOD	1007	aling / trais		alouia PERENDIN I
	SUBSTRATE (Estimate parcent of every (Max of 40), Add total number of significan	it substrate types found	(Max of 8) Feat metric score is sum of	precent Metri
TYPE	BLDR SLASS (15 pts)	MOENT NEED	OLT (3 et)	Politi
12.5		0.0	FINE DETRITUS (3 pts)	Suhaira
25		- 00	CLAY & HARDPAN (0 pd	Mar
O.		0_ 00	MUCK (Diges)	- 10
00		10_ 00	ARTHICIAL (3 pis)	100
	Total of Decrentages of	n WITT		(D) 4 A+B
	Eld Date, Boulder, Coppie, Bedrock	MATE TYPES	TOTAL NUMBER OF BURSTRA	TE TYPES
-	Maximum Pool Digits (Measure the ma:		the time of a memor (200 for evaluation read	n at the time of Poul De
2	evaluation. Avoid trungs pools from road	cuiverts or sistem states t	(Check ONL F on F box)	Max. >
	> 30 centimeters [20 pis]	50	> 5 cm = 10 cm [15 pts] = 5 cm (6 pts]	- 6
340	> 22.5 Mb cm [30 pts]	ő		0 pts
ğ	+ 10 + 22 5 cm (23 pis)		Y M	Car 14.
Ŕ	COMMENTS		MAXIMUM POOL DEPTHIC	comments)
8	COMMENTS		ments) (Check ONLY one bo	(): Barat
	COMMENTS  BANK FULL WIDTH (Measured as the a > 4 0 maters (> 13) (30 pts)		ments) (Check ONLY one bo > 1.0 m - 1 5 m (> 27 3" - 4' 8") [15 pts	(iii
, ooc	COMMENTS  BANK FULL WIDTH (Measured as the a	everage of 3-4 measure	ments) (Check ONLY one bo	(): Barat

	RIPARIAN ZONE AND FLO		ANOTE River Left (L) and PLAIN QUALITY	RIGHT (H) BS I	colong downsteemar
55		D.C.	(Most Predominant per Bank) Meture Forest, Wetland	ЬR	Conservation Tillage
50		区区	Immature Forest, Shrub or Old		Urban or Industrial
aa	Narrow <5m	ত্র ত্র	Residential, Park, New Field		Open Pasture Row Crop
99		20	Fenced Pesture	00	Mining or Construction
	FLOW REGIME (Al Time of Sheam Flowing Subsurface flow with outside COMMIDITS		Moist Chann	of, isolated p	oois, no llow (Intermitte phendrati
000			0 ft) of channel) (Check ONLY one	hor)	

CWH Name			_ Distance from Evaluated S	Iream
WWH Name:			_ Distance from Evaluated S	Iream
CWH Name				
T EWH Name			Dislance from Evaluated St	
			Datence from Evaluated Di	
MAPPING: ATTACH C	OPIES OF MAPS, INCLUDING			
USGS Quadrangle Name:		NRCS Soil Map P	ago: NRCS Soil Mo	p Siream Order
County:		Tevestalp/CEx		
MISCELLANEOUS				
Base Flow Conditions? (Y/N):	Date of last precipitati	on:	Quantity:	_
Pholograph Information	511 :	Jan .		
Elevated Turbidity? (Y/N)	Canopy (% open)	50		
Were samples collected for water			nd attach results) (at Normal	
Field Measures Temp (*C)_			1000	
is the sampling reach represents	tive of the stream (Y/N)	If not, please regian		
BIOTIC EVALUATION Performed? (Y/N):				
Fish Observed? (Y/N)\ Frogs or Tedpoles Observed? (Y. Comments Regarding Brology;	/oucher? (Y/N) Seleme	anders Observed? (Y/N)	Voucher? (Y/N)	
DRAWING AND	NARRATIVE DESCRI	PTION OF STREAM F	REACH (This must be	completed):
Include Important Jandma	sks and other features of in	erest for alle evaluation an	d a narrative description of t	to stream's focus
ī		_	· ·	1
	- 25		7	1
1.6		di.	57	1
				VA
			1	87
=Low→		27.6		-
-LOW-	7			36
-Low-	7		7	3/
-LOW -	7	AND.		7

ADEPTIONAL STREAM INFORMED?: "] Yes \( \text{\te	CHEI PERFORMED? - TYSS V No CHEI S DOWNSTREAM DESIGNATED USE(S) THE NAME CHAIN NAME ENH Name ENH Name MAPANICI ATRICH CONES OF MAPS, INCLUDIN	Score (II Yee, Allach Compleied GHE Form)  Didence from Evaluated Stream  Didence from Evaluated Stream  Cidence from Evaluated Stream
DOWNSTREAM DESIGNATED USE(S)  Downstream Distance from Evaluated Stream NRCS Gold Map Pager NRCS Sold M	DOWNSTREAM DESIGNATED USE(S)  COM Ness  EWH Name  MAPANG, ATTACH CORES OF MAPS, RICCUDIN	Distance from Evaluated Stream Distance from Evaluated Stream Cyllunce from Evaluated Stream
Distance from Evaluated Stream	☐ WOO! Rising ☐ CIPN Name ☐ EWH Name  MAPPING: ATTACH CONES OF MAPA, HIGUIDH	Distance from Evaluated Stream  Distance from Evaluated Stream
Distance from Evaluated Stream   Distance from Evaluation   Distanc	☐ CYNY Neme  EWH Name  MAPRING: ATTACH CORES OF MAPS, RICCUDIN	Distance from Evaluated Stream  Distance from Evaluated Stream
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MAPANDL ATACH COPEE OF MAPS, RICLIDING THE ESTITE WATER SHISD AREA. CLEARLY WARR THE SITE LOCATION  NRCS Sol Map Page NRCS Sol Map Stream Order	MAPPING, ATTACH COMES OF MAPS, INCLUDIN	the second secon
Tempths   City	USGS Quadrengle Name	ING THE ENTIRE WATER MIED AREA. CLEARLY MARK THE SITE LOCATION
Base Flow Conditions? (YAR) Date of lest precipitation Quentity Quentity Date of lest precipitation Quentity Quentity Date of lest precipitation Quentity Quentity Descript (% open):		
Base Flow Conditions? (YNI) Date of lest preoptation Outnity  Photograph information:	County:	Township / City
Base Flow Conditions? (YNI)	MIRCELLANEOUS	
Photograph information:    Canopy (No open):		
Elemined Turbidity? (YA) Candopt (No open):  Were samples collected for water chemistry? (YA) (Note tab semple no or id and attach results) Lab Number		
Were samples collected for whiter chemistry? (YAI)	Pholograph informed on	(258)
Were samples collected for whiter chemistry? (YAI)	Elevaled Turbidity? (Y/N) Canopy (% open)	d:
Field Measures Temp (*C) Directived Oxygon (mgA) ph (3 U ) Conductivity (jumbos/on) is the sampling rea of representative of the stream (*Zhi) If not, please assistant		
Since participal precedent representative of the stream (YAN)		
BIOTIC EVALUATION  BIOTIC EVALUATION  (If Yes, Record all observations, Vouctuar collections optional. NOTE: all vouctuar namples must be labeled with the company of the collections optional. NOTE: all vouctuar namples must be labeled with the collections optional. NOTE: all vouctuar namples must be labeled with the collections optional. NOTE: all vouctuar namples must be labeled with the collections optional. NOTE: all vouctuar namples must be labeled with the collections optional. NOTE: all vouctuar namples must be labeled on the labeled (labeled on the collections). Note that the collections optional name of the collections of the labeled on the collections of the labeled on the collections of the labeled on the collections of the labeled of of the	Field Measures Temp (°C) Dissolved Oxygen (	(mgA) pH (S U ) Conductivity (µmhos/cm)
BIOTIC EVALUATION  BIOTIC EVALUATION  (If Yes, Record all observations, Vouctuar collections optional. NOTE: all vouctuar namples must be labeled with the company of the collections optional. NOTE: all vouctuar namples must be labeled with the collections optional. NOTE: all vouctuar namples must be labeled with the collections optional. NOTE: all vouctuar namples must be labeled with the collections optional. NOTE: all vouctuar namples must be labeled with the collections optional. NOTE: all vouctuar namples must be labeled on the labeled (labeled on the collections). Note that the collections optional name of the collections of the labeled on the collections of the labeled on the collections of the labeled on the collections of the labeled of of the	s the sampling reach representative of the stream (VAI)	Hard places avvis a
BIOTIC EVALUATION  Performed? (Y/N): (If Yes, Record all observations. Vouch ar collections optional. NOTE: all voucher namples must be labeled with it. Dramble. (He appropriate fine data when the Technical processing for the processor of the Section of the Sec		
BIOTIC EVALUATION  Performed? (Y/N): (If Yes, Record all observations. Vouch ar collections optional. NOTE: all voucher namples must be labeled with it. Dramble. (He appropriate fine data when the Technical processing for the processor of the Section of the Sec		
Performed? (Y/N):	Additional provimental description of pollution imparts:	
Performed? (Y/N):		
Drumber: Include appropriate field data breaks for: the Primage residuals Assessment Manuals (Primage Presiduals Assessment Manuals (Primage Presiduals Assessment Manuals (Primage Presiduals Assessment Manuals Primage Prim	BIOTIC EVALUATION	
D number. Include appropriate field data threats from the Thimmagn restancing his Assessment Manual Finh Observed? (Y/N) Voucher? (Y/N)	Performed? (Y/N): (If Yes, Record all chaervation	una. Virucher collections collected. NOTF: eli voucher samples must be febried with
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Programment Regulating Biology Voucher? (Y/A) Aquatic Macroinvertebrates Observed? (Y/A) Voucher? (Y/A) Comments Regulating Biology Programment Regulating Biology Programment Regulating Biology Programment Regulating Biology Programment Regulation Programment Regulation Programment Regulation Programment Regulation Programment Regulation Programment Regulation	Fish Observed? (Y/N) Voucher? (Y/N) Salar	manriers Observed? (V/N) Voucher? (V/N)
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed): Include important fundaments and other features of interest for alle excluding and a manager description of the stream's location  https://doi.org/10.1001/j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.	rogs or Tedpoles Observed? (Y/N) Voucher? (Y/N)	Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
include important handmarks and other heatures of interest for title excludion and a marratre description of the stream's location in his house. The following interests the stream's location in his house in his house in the stream's location in his house in h	Comments Regarding Esclogy	
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include important handmarks and other heatures of interest for title excludion and a marrates description of the stream's location in his house.	DRAWING AND NARRATIVE DESCRI	RIPTION OF STREAM REACH (This must be completed):
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y	LOW	
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TE at	A STATE	SITE NUMBER	DIL.	RIVER BASII		ER CODE	AINAGE AREA (ml²) RIVER MILE	
OTE	Comp	lete All Items On This F					H Streams" for Instru	ctions
	UM CHA	_					RECENT OR NO RECO	
	FICATIO							
_	- III	RATE (Estimate percent of	every lyne of s	ubstratu preser	nt Check ONLY two	predominant 5	ubstrale TYPE boxes	
	(Max of	40). Add total number of sign	ificant substrate	e types tound (M	tay of 8) Final metric	score is sum i	of boxes A & B PERCENT	Metr
YPE	BLC	R SLABS [16 pts]	PERCENT	TYPE	SILT [3 p()		10	Poin
JM	BOL	JLDER (>258 mm) [18 pts]			FINE DETRITUE (3		(c) <u>20</u>	Substra
) (1 ) (1		OROCK [18 pt] BBLE (65-256 mm) [12 pts]	_		CLAY OF HARDPAN			Mas .
10		AVEL (2-64 mm) [6 pts]	10-	0.0	MUCK [0 pts]			9
in		(D (<2 mm) [8 pts]			ARTIFICIAL [3 pls]		0-0-0-0	-
	7	olal of Percentages of		(A)			(8)	A+B
	Bid: Sla	bs, Boulder, Cobble, Bedrock MOST PREDOMINATE BU	C		TOTAL NUMBE	ER OF SUBST	KATE TYPES	
ORE								Pool De
	Maxima	on Avoid purge poors from	e maximum po	of depth within	(Check ONLY	one best	ett) to one one or	Man #
3	- 30 cm	imetals [20 pts]	ONO CHINALITY OF		> 2 cut + 10 muf 13	pts]		1
2		30 cm [30 pis]		2	< 5 cm (5 pts) NO WATER OR M	DIST CHANNE	toped Titl	6
-	* 10 - 2	2 5 cm [21 pts]		de de			De alle	
	COMM	ENTS						
					MAXIMUM P	POOL MEFTH	edolinistace).	_
_	BANK	FULL WIDTH (Measured as	the average of	3-4 measurem	ents) (Che	ck ONLY one I	nost	Bankf
7	> 4 0 me	FULL WIDTH (Measured as tors (> 13) [30 pts] - 4 0 m (> 6' 7" - 13') [25 pts]	the average of	3-4 measurem		ck ONLY one I	nost	Bankf Width Maxe
7	> 4 0 me > 3 0 m	tere (> 13) [30 pts]			ents) (Che >10 m =16 m (+3	ck ONLY one I	nost	Width
7	> 4 0 me > 3 0 m	tere (> 13) [30 pts] - 40 m (> 67 7* - 13) [26 pts] - 30 m (> 4*67 - 9*7*) [20 pts]			ents) (Che >10 m = 16 m (= 3 s 10 m (= 3 3 3 ) f	ck ONLY one I	heet 15	Width
7	> 4 0 me > 3 0 m > 1 5 m	tere (> 13) [30 pts] - 40 m (> 67 7* - 13) [26 pts] - 30 m (> 4*67 - 9*7*) [20 pts]			ents) (Che >10 m = 16 m (= 3 s 10 m (= 3 3 3 ) f	ek ONLY one I 3' 3" - 4'8") [16 [24]	heet 15	Width
7	> 4 0 me > 3 0 m > 1 5 m	tere (> 13) [30 pts] - 4 0 m (> 0" 7" - 13") [25 pts] - 3 0 m (> 4" 6" - 0" 7") [20 pts]	This	Information	onts) (Che >10 m 15 m (s 3 s 10 m (s 3 3 3 ) m  AVERAGE (	ek ONLY one I	DONE BEET 15	Width
7	> 4 0 me > 3 0 m > 1 5 m	ESSE (> 13) [30 pm] - 4 0 m (> 67 r - 13') [25 pm] - 3 0 m (> 4° 6" - 6" r") [20 pm] ESSE ESSE ESSE ESSE ESSE ESSE ESSE ESS	This	Information	onts) (Che >10 m 15 m 15 s10 m (13 2) M AVERAGE   ust also be complet TE: River Left (L) an	ek ONLY one I	heet 15	Width
7	> 40 me > 30 m > 15 m	RIPARIAN XODE AND FLO RIPARIAN XODE AND FLO (Per Bank)	This ODPLAIN QUA	Information mi	ents) (Che >10 m 15 m (s 3 s 10 m (s 3 3) fs  AVERAGE (  ust also be complet TE: River Left (L) en thinant per Bank)	ck OALY one I 53'-4'8') [16] prij BANKTULL VA 18d d Right (R) as I	DOTH BELL SO	Width
7	>40me >30m >15m COMM	RIPARIAN ZONE AND FLO RIPARIAN ZONE AND FLO RIPARIAN WIDTH (Per Bank) Wide >10m	This odplain qua	Information me LITY 4NO PLAIN QUALITY (Most Predom Mature Fores'	onts) (Che >10 m 16 m (s) s10 m (13 3 7 m)  AVERAGE  Ust also be complet TE: River Left (L) on Y Inhant per Bank) ( Wetland	AANKTULL VA	DTH Lives Cooking downstream Δ	Width
7	> 40 me > 30 m > 15 m	RIPARIAN XODE AND FLO RIPARIAN XODE AND FLO (Per Bank)	This ODPLAIN QUA	Information me LITY 4NO PLAIN QUALITY (Most Predom Mature Fores'	ents) (Che >10 m 15 m (s 3 s 10 m (s 3 3) fs  AVERAGE (  ust also be complet TE: River Left (L) en thinant per Bank)	AANKTULL WA	OTH Parket  Ooking downstream &  Conservation Tillage	Width
7	>40me >30m >15m COMM	ENTS (-13) (30 pts) -40 m (+2 ** -5") (25 pts) -30 m (+2 ** 6" -5") (20 pts) ENTS  RIPARIAN ZONE AND FLOT RIPARIAN WIDTH (Per Bank) Wide >10m Moderale S 10m	This ODPLAIN QUA FLOOD L R III	Information m. LITY ANO PLAIN QUALITY (Most Predort Mature Fores' Immelure For	onts) (Che >10 m 16 m (s) s10 m (13 3 7 m)  AVERAGE  Ust also be complet TE: River Left (L) on Y Inhant per Bank) ( Wetland	ANKTULL WA	coking downstream &  Conservation Tillage Union Pasture, Row Crop	Width
7	>40me >30m >15m COMM	RIPARIAN ZONE AND FLOI RIPARIAN ZONE AND FLOI RIPARIAN ZONE AND FLOI RIPARIAN MOTH (Per Bank) Moderale S 10m Nation -Sm None	This ODPLAIN GUA FLOOD L R	Information m. LITY ANO PLAIN QUALITY (Most Predort Mature Fores' Immelure For	ents) (Chin b 2 nm t 5 m b 2 nm b 2 nm t 5 nm b 2 nm t 5 nm t	AANKTULL WA	ooking downstream   Conservation Tillage  Uses or industrial  Open Pasture, Row	Width
7	240me >30m >15m come	RIPARIAN MDTH  RIPARIAN AND FAD  RIPARIAN MDTH  (Per Bank)  Mide > 10m  Moderale S 10m  Netrow ≪m	This ODPLAIN QUA FLOOD L R C C	Information multiple ANO PLAIN QUALITY (Most Preder Mature Fores' immeture For Field Res dential F	ents) (Chin b 2 nm t 5 m b 2 nm b 2 nm t 5 nm b 2 nm t 5 nm t	ANKTULL WA	coking downstream to Conservation Tillage	Width
7	240me >30me >15m come Come	EMBRIC 13 (10 PPR)  A 0 m o # o # o # o # o # o # o # o # o # o	This ODPLAIN QUA FLOOD L R C C	Information m. LITY ANO PLAIN QUALITY (Most Preder Mature Fores' immeture For Field Res dential Fenced Pastu	onts) (Che > 10 m (5 m t) 5 1 0 m (15 m t) 5 1 0 m (15 m t) 6 1 1 0 m (15 m t) 7  AVERAGE 1  AVERAGE 2  AVERAGE 2  AVERAGE 3  AVERAGE 3  AVERAGE 4  AVERAGE 4  AVERAGE 4  AVERAGE 4  AVERAGE 5  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 7  AVERAGE 6  AVERAG	ek OWLY down with the control of the	ooking downstream of Conservation Tillage class or industrial Open Posture, Row Crop Maning or Construction	March 5
7	240me 230me 215me 20me 20me 20me 20me 20me 20me 20me 20	RIPARIAN ZONE AND FLO RIPARIAN ZONE AND FLO RIPARIAN ZONE AND FLO RIPARIAN ZONE RIPARIAN ZON	This ODPLAIN GUA FLOOD READ READ READ READ READ READ READ REA	Information mu.IITY ANO PLAN QUALITY (Most Predom Mature Forest Immeture For Field Residential Fenced Pasturcheck ONLY and	onts) (Che > 10 m (5 m t) 5 1 0 m (15 m t) 5 1 0 m (15 m t) 6 1 1 0 m (15 m t) 7  AVERAGE 1  AVERAGE 2  AVERAGE 2  AVERAGE 3  AVERAGE 3  AVERAGE 4  AVERAGE 4  AVERAGE 4  AVERAGE 4  AVERAGE 5  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 7  AVERAGE 6  AVERAG	ek OWLY down with the control of the	OTH palazes OTH pa	March 5
7	240me 230me 215me 20me 20me 20me 20me 20me 20me 20me 20	EMBRIC 13 (10 PPR)  A 0 m o # o # o # o # o # o # o # o # o # o	This ODPLAIN GUA FLOOD READ READ READ READ READ READ READ REA	Information mu.IITY ANO PLAN QUALITY (Most Predor Mature Forest Immeture For Field Residential Fenced Pasturation Check ONLY and	onts) (Che > 10 m (5 m t) 5 1 0 m (15 m t) 5 1 0 m (15 m t) 6 1 1 0 m (15 m t) 7  AVERAGE 1  AVERAGE 2  AVERAGE 2  AVERAGE 3  AVERAGE 3  AVERAGE 4  AVERAGE 4  AVERAGE 4  AVERAGE 4  AVERAGE 5  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 6  AVERAGE 7  AVERAGE 6  AVERAG	ck OALY one character (Fig. 1)	OTH palazes OTH pa	March 5
7	240me 230me 215me 20me 20me 20me 20me 20me 20me 20me 20	READ (-13) TOP THIS  -4 Om C of 7-13) [25 ps] -3 Om (-2 of -97) [20 ps]  ENTS.  RIPARIAN ZONE AND FLOI  RIPARIAN ZONE AND FLOI  RIPARIAN MIDTH  (Per Bank)  Vide -10m  Notice	This control of the c	Information multing ANO PLAIN QUALITY ANO PLAIN QUALITY Meture Forest immediate Forest Another Mediate Forest Another Another Mediate Forest Information Fores	Onts) (Che > 10 m 15 m t 5 10 m 15 m t 5 10 m 17 3 7) t 10 11 3 7 10 12 10 m 15 m t 10 13 10 m 17 3 7) t 10 15 River Left (L) and TE: River Left (L) and Test, Shrub or Old Ourk. New Field Dry channe	ck ONLY one ST ST A ST	DTH makes of cooking downstream D  Conservation Tillage States or industrial Open Pesture, Row Crap Naning or Construction cooks, no flow (Internatical)	March 5
7	**************************************	A DISTRICT OF THE CONTROL OF THE CON	This copplain out of the c	Information multing ANO PLAIN QUALITY ANO PLAIN QUALITY Meture Forest immediate Forest Another Mediate Forest Another Another Mediate Forest Information Fores	Onts) (Che > 10 m = 15 m s > 10 m s > 15 m s > 10 m s > 15 m s > 10 m s > 1	ch ONLY one 3 3" - 4" 8") [16]  ANHITUL YO  ied  d Right (R) as i	OTH palazes OTH pa	March 5
7	**************************************	RIPARIAN ZONE AND FLOI RIPARIAN ZONE AND FLOI RIPARIAN WIDTH (Per Bank) Moderale 5 10m None COMMUNITS FLOW RECHME (All Tume of Stream Powrig Bankhar foor with modeled COMMUNITS FLOW RECHME (All Tume of Stream Powrig Bankhar foor with modeled COMMUNITS FLOW RECHME (All Tume of Stream Powrig Bankhar foor with modeled COMMUNITS FLOW RECHME (All Tume of STREAM POWRIG BANKHAR FOOR WITH modeled COMMUNITS FLOW RECHME (All Tume of STREAM POWRIG BANKHAR FOOR WITH modeled COMMUNITS FLOW RECHMER (All Tume of STREAM POWRIG BANKHAR FOOR WITH MODELED FROM STREAM POWRIG BANKHAR FOOR WITH P	This copplain dual form of the following	Information multing ANO PLAIN QUALITY ANO PLAIN QUALITY Meture Forest immediate Forest Another Mediate Forest Another Another Mediate Forest Information Fores	Onts) (Che > 10 m 15 m t 5 10 m 15 m t 5 10 m 17 3 7) t 10 11 3 7 10 12 10 m 15 m t 10 13 10 m 17 3 7) t 10 15 River Left (L) and TE: River Left (L) and Test, Shrub or Old Ourk. New Field Dry channe	ch ONLY one 3 3" - 4" 8") [16]  ANHITUL YO  ied  d Right (R) as i	OTH passage of the pa	March 5

_	SCOCATION	WEER OF	RIVER BASIN		AINAGE AREA (ml²)	
EHOTH	OF STREAM REACH (#)	LEAR / TIE OO	LONG RP	VER CODE	RIVER MILE	
	Complete All Items On	This Form - Refer t	o "Field Evaluation Manual for	Ohlo's PHW	H Streams" for Instruc	lions
		IONE/HATURAL CHA	NIEL DRECOVERED DRE	COVERING [	RECENT OR NO RECOV	ERY
8	UBSTRATE (Estimate per	cent of every type of a	substrato present, Check DNLY by	predominant s	-bstrole TVPE boxes	ННЕ
TYPE (I	Max of 40). Add total number	of significant aubitret PERCENT	types found (Mex of 8). Final metro TYPE	c score is sum i	PERCENT	Metr
謂	BLDR SLABS [16 pts] BOULDER (>256 mm) [1	S misi	BILT [3 pf]  LEAF PACK/WOOD	Y DEBRIS (3 pt	- F	
	BEDROCK (18 pt)		FINE DETRITUS [3			Substi Max =
	COBBLE (85-256 mm) [1 GRAVEL (2-84 mm) [8 p	z biej	CLAY OF HARDPAN	fo bd		10
So.	BAND (< mm) [0 pts]	_10_	ARTIFICIAL [3 pis]			10
	Total of Percentages of	4	(A) 10		(0)	A + B
	Sidr Slabs, Boulder, Cobble, OF TWO MOST PREDOMIN		TOTAL HUMB	ER OF BUBST	SATE TYPES	
-	Assimon Paul Danth (Mes	size the maximum as	of depth within the 51 meter (200	ft) evaluation re	ach et the lime of	Pool De
	netuation. Avoid plunge por 30 centimaters [20 pls]	ols from road culvens or	shorm water rapes) (Check ONL)	(ane box)	ı	Maxe
0 >	22.5 - 30 cm [10 pts]		>5 cm - 10 cm [16 < 5 cm [5 pts]		topis Carl	25
	10 - 27 5 cm [73 pin]		3.4	OOL DEPTH	Present 18	
_	COMMENTS			ck ONLY one I	-	Bankil
(T)	SANK FULL WIDTH (Meast 4.0 meters (> 131) [30 pts)		☐ > 1.0 m - 1.5 m (*)	3 -4 B") [15]		Widt
	3.0 m - 4.0 m (> 9 7 - 13) 15 m - 3 0 m (> 4 6 - 9 7		( 1000(1237))	test	4 4 21	-
	COMMENTS		O AVERAGE	BANKFULL WI	DTH (Motors)	2
	100000			_		=
	RIPARIAN TONE AS	THE TLOODPLAIN QUA	Information must also be comple LITY ANOTE fliver Left (L) on	ted a Myrc (its es i	ocking downstresmite	
	RIPARIAN WIDTH	FL000	(Most Predominant per Bank)	L R		
	L R (Per Bank)  Wide > 10m	òô	Majure Forest, Welland	àñ	Conservation Tiliage	
2	☐ ☐ Moderate 5-10m	XIX	Immeliate Ferent, Chryb or Old Field	00	Urban or Industrial	
2		00	Residential, Park New Field		Open Pasture Row Crop	
	☐ Narrow <5m		Fenced Pasture		Mining or Construction	
	Nerrow <5m	00	1 111000 1 111011			
	O None	Time of Evaluation) (0	Chwck DNLY one box):		pals na flow (intermition!)	

	MATION (This information Nust Also be Completed):
QHEI PERFORMED?	- 🗆 Yes 🕅 No. QHEI Score (If Yes, Altach Completed QHEI Form)
DOWNSTREAM DESI	
CWH NEED	Distance from Evaluated Stream
() EWH Name	Distance from Evaluated Stream  Oislance from Evaluated Stream
	OMES OF MAPS, INCLUDING THE ENTIRE WATERDIED AREA. CLEARLY MARK THE SITE LOCA
	NRCS Soil Map Page:NRCS Soil Map Streem O
County	Townsey / City:
MINCELLAHEOUS	
Base Flow Conditions? (Y/N):	Date of lest propptation Quantity
Photograph Information	
Elevated Turbidity? (Y/N)	Cenopy (% open)
	r chemistry? (Y/N): Note in b sample no or in the state have a lab to or in
	Dissolved Oxygen (mg/l) pH (S U ) Conductivity (µmlios/cm)
is the sampling reach represental	tive of the stream (Y/N) Y If you presse excises
Additional comments/cescription	al polution imports
Additional comments/cescription	alfpokulan impochi
Additional comments/cescription	100-100
BIOTIC EVALUATION	] ITYes, Record all observations. Vougher collections collocal. NOTE: all voucher samoles must be label.
BIOTIC EVALUATION Performed7 (Y/N) [ (II	] IYes, Record all observellons. Voucher colledions optional. NOTE: all voucher samples must be labeled. Divimber: Include appropriate field data obsets from the Primary Headwaler Hiddel Assessment Manu.
BIOTIC EVALUATION  Pealormed? (Y/N) (V	d  If Yes, Record all observations. Vouster collections optional NOTE: all voucher samples must be label from the "houlds appropriate field data sheed from the Primary Headwader Habitat Assessment Menu content? (FM). Selfstranders Checand (FM).
Performed? (Y/N)	d  If Yes, Record all observations. Vouster collections optional NOTE: all voucher samples must be label from the "houlds appropriate field data sheed from the Primary Headwader Habitat Assessment Menu content? (FM). Selfstranders Checand (FM).
BIOTIC EVALUATION  Pealormed? (Y/N) (V	d  If Yes, Record all observations. Vouster collections optional NOTE: all voucher samples must be label from the "houlds appropriate field data sheed from the Primary Headwader Habitat Assessment Menu content? (FM). Selfstranders Checand (FM).
Performed? (Y/N)	d  I Yves, Record all observations. Vouster collections optional NOTE: all voucher samples must be label from the "houlds appropriate field data sheeld from the Primary Headwader Habitat Assessment Mean souther? (FM). Selfstmenders Chescoped (FM).
Performed? (Y/N)	d  If Yes, Record all observations. Vouster collections optional NOTE: all voucher samples must be label from the "houlds appropriate field data sheed from the Primary Headwader Habitat Assessment Menu content? (FM). Selfstranders Checand (FM).
Periomed (YA) (1) Fish Observed (YA) (1) Frog or Terboles Observed (YA) Contests Reporting Delay	1  1 Yee, Record all observations. Voucher colladions optional. NOTE: all voucher amples must be table  1 Ountier. Include appropriate field data cheele from the Primary Headwader Hebitat Assessment Record  1 Countier? (YR)
Periomed (YA) (1) Fish Observed (YA) (1) Frog or Terboles Observed (YA) Contests Reporting Delay	1  1 Yee, Record all observations. Voucher colladions optional. NOTE: all voucher amples must be table  1 Outside sportopriate field data cheele from the Primary Headwader Hebitat Assessment Record  1 Country (VR)
Periomed (YA) (1) Fish Observed (YA) (1) Frog or Terboles Observed (YA) Contests Reporting Delay	1  1 Yes, Record all observations. Voucher colladions optional NOTE all voucher samples must be label  10 number include appropriate feel date observed from the Primary Headward Habita Assessment Menus  10 number (Y/N) Selatemenders Object-ed (Y/N) Voucher? (Y/N) Aquelic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Aquelic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
Periomed (YA) (1) Fish Observed (YA) (1) Frog or Terboles Observed (YA) Contests Reporting Delay	1  1 Yee, Record all observations. Voucher colladions optional. NOTE: all voucher amples must be table  1 Outside sportopriate field data cheele from the Primary Headwader Hebitat Assessment Record  1 Country (VR)
Periomed (YA) (1) Fish Observed (YA) (1) Frog or Terboles Observed (YA) Contests Reporting Delay	1  1 Yes, Record all observations. Voucher colladions optional NOTE all voucher samples must be label  10 number include appropriate feel date observed from the Primary Headward Habita Assessment Menus  10 number (Y/N) Selatemenders Object-ed (Y/N) Voucher? (Y/N) Aquelic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Aquelic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
Palomed? (Y/N) () () Fish Observed? (Y/N) () () Frogs or Tolycles Observed? (Y/ Comments Regarding Delay)  DRAWING AND Include Important landman	1  1 Yee, Record all observations. Voucher colladions optional. NOTE: all voucher amples must be table  1 Outside sportopriate field data cheele from the Primary Headwader Hebitat Assessment Record  1 Country (VR)
Periomed (YA) (1) Fish Observed (YA) (1) Frog or Terboles Observed (YA) Contests Reporting Delay	1  1 Yes, Record all observations. Voucher colladions optional NOTE all voucher samples must be label  10 number include appropriate feel date observed from the Primary Headward Habita Assessment Menus  10 number (Y/N) Selatemenders Object-ed (Y/N) Voucher? (Y/N) Aquelic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Aquelic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
Palomed? (Y/N) () () Fish Observed? (Y/N) () () Frogs or Tolycles Observed? (Y/ Comments Regarding Delay)  DRAWING AND Include Important landman	1  1 Yes, Record all observations. Voucher colladions optional NOTE all voucher samples must be label  10 number include appropriate feel date observed from the Primary Headward Habita Assessment Menus  10 number (Y/N) Selatemenders Object-ed (Y/N) Voucher? (Y/N) Aquelic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Aquelic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
Palomed? (Y/N) () () Fish Observed? (Y/N) () () Frogs or Tolycles Observed? (Y/ Comments Regarding Delay)  DRAWING AND Include Important landman	] IYes, Record all observations. Vouther collections optional. NOTE: all voucher samples must be label. Divimber: Include appropriate field data obsets from the Primary Headwater Habitat Assessment filence.

ADDITIONAL STREAM INFORMATION (This Information)	Nist Also be Completed;
OHEI PERFORMED? - Tyes No OHEI Sc	ore(If Yes. Allach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
CHAN Name	Distance from Evaluated Stream  Distance from Evaluated Stream
□ EWH have	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING	THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name	NRCS Soil Map Page: NRCS Soil Map Streem Order
County	Township / City
MISCELLANEOUS	
East Flow Community (FAI) N Date of last precipite	ion Ouaniiv
Printing with intermedical Day NY	14.7
Elevated Turbidity? (Y/N): N Canopy (% open):	
	(Note lab sample no. or id and affect regular) and factors
4	
is the saveting reach representative of the stream (174)	pH (S U ) pH (S U )
Additional commercialization of pullulion impacts:	
BIOTIC EVALUATION	
Performed? (Y/N): (/f Yes, Record all observations	. Voucher collections optional. NOTE all voucher samples must be labeled will
ID number. Include appropriate	field data sheats from the Primary Headwaler Habitat Assassment Manual)
Fish Observed? (Y/N) Voucher? (Y/N) Salam	field data sheets from the Primary Headwater Habilist Assessment (Manual) anders Observad? (Y/N) Voucher? (Y/N)
Fish Observed? (Y/N) Voucher? (Y/N) Salam	
Fish Observed? (Y/N) Voucher? (Y/N) Salam Frogs or Tedpoles Observed? (Y/N) Voucher? (Y/N)	field data sheets from the Primary Headwater Habilist Assessment (Manual) anders Observad? (Y/N) Voucher? (Y/N)
Fish Observed? (Y/N) Voucher? (Y/N) Salam Frogs or Tedpoles Observed? (Y/N) Voucher? (Y/N)	field data sheets from the Primary Headwater Habilist Assessment (Manual) anders Observad? (Y/N) Voucher? (Y/N)
ID rumber. Includes appropriate Fish Observed? (YRI) Voucher? (YRI) Salam Frogs or Todpoles Observed? (YRI) Voucher? (YRI) Comments Requiring Debtory	field drift uhtels from the Primery Headweler Helblid Assessment Mercell) anders Observad? (YIN)
Drumber. Includes appropriate Fish Observed? (YN) Voucher? (YN) Salam Frops or Tedpoles Observed? (YN) Voucher? (YN) Committed Regarding Biology  DRAWING AND NARRATIVE DESCR	field disk break from the Pomery Headweler Helbild Assessment Menuel) anders Observed? (YIN)
Drumber. Includes appropriate Fish Observed? (YN) Voucher? (YN) Salam Frops or Tedpoles Observed? (YN) Voucher? (YN) Committed Regarding Biology  DRAWING AND NARRATIVE DESCR	field disk break from the Pomery Headweler Helbild Assessment Menuel) anders Observed? (YIN)
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Drumber. Includes appropriate Fish Observed? (YN) Voucher? (YN) Salam Frops or Tedpoles Observed? (YN) Voucher? (YN) Committed Regarding Biology  DRAWING AND NARRATIVE DESCR	field disk break from the Pomery Headweler Helbild Assessment Menuel) anders Observed? (YIN)
Drumber. Includes appropriate Fish Observed? (YN) Voucher? (YN) Salam Frops or Tedpoles Observed? (YN) Voucher? (YN) Committed Regarding Biology  DRAWING AND NARRATIVE DESCR	field disk break from the Pomery Headweler Helbild Assessment Menuel) anders Observed? (YIN)
Fish Observed? (YN) Voucher? (YN) Voucher? (YN) Salam Frogs or Tadpoles Observed? (YN) Voucher? (YN) Connected Reporting Decktory	field disk brake from the Primary Headwaler Helbild Assessment Mercall) anders Observed? (YIN)

		Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):  RIVER BASIN URAINAGE AREA (m²)  ONG RIVER BASIN RIVER CODE RIVER MILE  COMMITTEE AND RIVER MILE	
NOTE: Co STREAM C MODIFICA	HANNEL DHONE (14)	n - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for In TURNE CHANNEL ☐ RECOVERED 图 RECOVERING ☐ RECENT OR NO R	
(Ma)	of 40). Add total number of signification	ry type of substrate present. Check ONLY typ predominant substrate TYPE boxed and substrate Present State of State Predominant Substrate TYPE boxed and substrate TYPE boxed and substrate TYPE substrate TYPE State PACKWOODY DEBRIS [D pln] 10   LEAP PACKWOODY DEB	HHEI Metric Points Max = 40
2 Nas oval 0 - 30 > 22 0 - 10	mum Poul Death (Measure the m	section of good depth within the 61 miles (808 fg wabshook reach at the time of distincts or storm within popes. (Check ONL) was book   50 miles of the time of the control	Posi Depile Mar = 30
0 240 0 230 0 115	ik FULL WIDTH (Measured as the maters (> 13) [30 pts] ns -40 m (> 6' 7" - 13) [25 pts] m -30 m (> 4' 6" - 9' 7") [20 pts]		Bankhilli Widdh Mear26
ĮĶ.	Moderate 5-10m  Minnes <5m  None  COMMENTS	TO CONSERVATION THE PRINCE OF	g e
	FLOW REGIME (A) Time at Eve Streem Flowing	gluation) (Check DNLY one box);  Moist Channel, isolated pools, no flow (Internal) obs (Interstitut) Dry channel, no water (Ephemeral)	tient)
	COMMENTO	per B1 m (200 ft) of channel) _{Check ONLY one box)	
0	BINUOBITY (Number of bends ) None 0 5	per 81 m (200 ft) of channel) (Sheek OMLY one box)  1.0 2.2	₩ 10 (c)

100	PHWH Form Page - 1
m 730	Whose-strike of
	Mod, Class 1
Prima	ary Headwater Habitat Evaluation Form
	HHEI Score (sum of metrics 1, 2, 3):
ENAMEROCATION INT.	Landbloge - Post or 5
NGTH OF STREAM REACH (ft)	PER CI RIVER BASIN DRAINAGE AREA (mi²) LAT. LONG RIVER CODE RIVER MILE
	AE TY COMMENTS SPILED OF
	IS Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for instruction  If (NATURAL CHANNEL) IN RECOVERED DRECOVERING IN RECENT OR NO RECOVERY
	TO THE CHANNEL PRICESSES DIRECTORING DIRECTOR NO RECOVERY
2 - 1	of every type of substrate present. Check ONLY two predominant substrate TYPE boxes
(Max of 40). Add total number of s	significant substrate types found (Max of 8). Final metric score is sum of boxes A & B
YPE    I BLOR SLABS [18 pte]    O BOULDER (>256 mm) [18 pts	SILT IS DEL SO POI
BEDROCK [18 pt] COBBLE (65-266 mm) [12 pte	Subs
GRAVEL (2-84 mm) (9 pts)	D MUCK [0 pls]
SAND (<2 mm) [6 pts]	ARTIFICIAL [3 plo]
Total of Percentages of Bids Stabs, Boulder, Cobbio, Beds ORE OF TWO MOST PREDOMINATE:	
Maximum Pool Depth (Measure	the maximum cool death within the 61 meter (200 fit evaluation reach at the time of
Si cerametere (20 pin)	orn trans customs or storm water place) (Check ONLY one box)
> 22.5 = 30 cm (30 pts) = 10 - 22.5 cm (25 pts)	* 5 cm * 10 cm [16 pls] * 5 cm * 10 cm [16 pls] * 5 cm * 10 cm [16 pls] * 10 cm * 10 cm (16 pls) * 10 cm * 10 cm (16 pls)
COMMENTS	3" NAXMUM POOL DEPTH (CASTELLE) (0.5)
> 4 D maters (> 13') [30 ots]	as the average of 3-4 measurements) (Check CALY one box):    > 1.0 m - 1.5 m (> 3.3" - 4"8") (16 pts)
> 3.0 m · 4 0 m (> 6 7 ~ 131) [28] pts > 1 5 m · 3 0 m (= 4 8 ° 6 7 7) [20 pt	Main 21 (25 2 ) m 0,1 2 (27 2 )
COMMENTS	AVERAGE BANKFULL WIDTH (Majors)
	This information mant also be completed
RIPARIAN ZONE AND FLO	GODPLAIN QUALITY ONOTE from Let (1) and Right (1) as looking downstream () FLOODPLAIN QUALITY
RIPARIAN WIDTH	
RIPARIAN WIDTH  L R (Per Bank)  Wide > 10m	☐ ☐ Majure Forest, Welland ☐ ☐ Conservation Tillage
L R (Per Bank)	L R Most Programmer Hash) L R Conservation Tilinge Immeture Forest, Shrub or Old Urban or industrial
L R (Per Bank) Wide >10m ☐ Moderate 5-10m ☐ Narrow <5m	Immeture Forest, Shrub or Old
L R (Per Bank) Wide >10m  Moderate 5-10m	Immeture Forest, Shrub or Old
(Per Bank) Wides-10m  Moderate 5-10m  Narrow Sm  None COMMENTS  FLOW REGISE (At Time of	Immuture Forest, Shiub or Old
R (Per Bank)   Wide > 10m   Moderate 5-10m   Narrow <m none<="" td=""  =""><td>  Immeture Forest. Shrub or Old</td></m>	Immeture Forest. Shrub or Old

ADDITIONAL STREAM INFORMATION (This Information Wast	The state of the s
QHEI PERFORMED? - TYES NO QHE Score_	(If Yes_Allach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)  WWW Name	
□ cwit Name	Distance from Evaluated Stream Distance from Evaluated Stream
T EWH Manie	Distance from Published Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE	E ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Naraa	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: To	ownship / City
MISCELLANEOUS	
Base Flow Conditions? (Y/N). Nate of last precipitation.	Quantity
Pholograph whematon	
Elevated Turbidity? (Y/N) Cenopy (% open)	K
Were samples collected for water chemiatry? (Y/N) 11 (Note	
	pH (S U ) Canductivity (µmhos/cm)
	nol plense extram
Performed? (YRI)   N (If Yee, Record all observations, Vou ID number, Include appropriate field	icher collections opkonal. NOTE: all vouther samples must be listeded with data cheels from the Primary Headwaler Habilal Assessiment Manual)
Additional commendative cript on of polition impacts  BIOTIC EVALUATION  (If Yes, Record all observations, Van ID number, record all observations field Fish Observed? (Y/N)	icher collections opbonal. NOTE: sil voucher samples must be lebeled with data cheels from the Primary Headweler Habilat Assessment Mazurah
Additional commendative cript on of polition impacts  BIOTIC EVALUATION  (If Yes, Record all observations, Van ID number, reducts appropriate field Fish Observed? (Y/N)	icher collections opkonal. NOTE: all vouther samples must be listeded with data cheels from the Primary Headwaler Habilal Assessiment Manual)
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	hir-us with 0
ADDITIONAL STREAM INFORMATION ( Tids before	undies Must Arse be Completed)
OHEI PERFORMED? - [] Yes [] No	QHEI Score (If Yes, Altach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	Distance from Evaluated Stream
Oww.hame	Distance from Evaluated Stream
T EVIN Face	Dislance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, IN	ICLUDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE LOCATIO
USGS Quadrangle Name	NRCS Soil Map Page NRCS Soil Map Stream Orde
Courty	Township / City
MISCELLANEOUS	
Base Flow Conditions? (Y/N)   Date of last	precipilation Quantity
Pholograph Information:	
Elevated Turbulity? (YAN) _ 11 Canopy (9	d mann)
	[1] (Note lab sample no. or id and attach results) Lab Number
	Drygen (mg/l)pH (S.U.) Conductivity (umhos/cm)  Y/N) 1 In ol. printe septim.
Additional commercialossa policina of policina imperio	
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Performed? (Y/N) (If Yes, Record all ob-	ppropriate field data sheets from the Primary Headwater Hebral Assessment Manual)  Selamanders Chaervad? (Y/N) Voucher? (Y/N)
Performed? (Y/N) (If Yes, Record et ob- 10 number, Include e Fish Observed? (Y/N) Voucher? (Y/N) Voucher?	ppropriate field data sheets from the Primary Headwater Hebral Assessment Manual)  Selamanders Chaervad? (Y/N) Voucher? (Y/N)
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Performent? (Y/N) Uf Yes, Record at do 10 number house of 10 number ho	ppropriate 66 data sheets from the Primary Iteacrade: Intel®d. Assessment Manually Salamanders Observed? (V/N) Voucher? (V/N) Voucher? (V/N) Voucher? (V/N) Voucher? (V/N) Voucher? (V/N)   DESCRIPTION OF STREAM REACH (This must be completed)

## ATTACHMENT C

## REPRESENTATIVE PHOTOGRAPHS

# ATTACHMENT C.1

## REPRESENTATIVE WETLAND PHOTOGRAPHS



**Representative Wetlands** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston–Good Hope 138 kV Rebuild Project

60482520

Photo No. 1

Date:

March 23, 2016

**Description:** 

Wetland 27

Facing North

PEM Wetland

Category 1



Photo No. 2

Date:

March 9, 2016

**Description:** 

Wetland 4

Facing Southwest

PEM Wetland





**Representative Wetlands** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston–Good Hope 138 kV Rebuild Project

60482520

Photo No. 3

Date:

March 23, 2016

**Description:** 

Wetland 36

Facing West

PEM/PFO Wetland

Category 2



#### Photo No. 4

Date:

March 9, 2016

**Description:** 

Wetland 3

Facing Southeast

PEM/PSS Wetland





**Representative Wetlands** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston–Good Hope 138 kV Rebuild Project

60482520

Photo No. 5

Date:

March 9, 2016

**Description:** 

Wetland 7

Facing Southeast

PEM/PSS Wetland

Category 2



Photo No. 6

Date:

March 22, 2016

**Description:** 

Wetland 19a

Facing South

PFO Wetland





**Representative Wetlands** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston–Good Hope 138 kV Rebuild Project

60482520

Photo No. 7

Date:

March 22, 2016

**Description:** 

Wetland 38

Facing West

PFO/PEM Wetland

Category 1



Photo No. 8

Date:

March 03, 2016

**Description:** 

Wetland 50

Facing North

PFO/PEM Wetland





**Representative Wetlands** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston–Good Hope 138 kV Rebuild Project

60482520

Photo No. 9

Date:

March 10, 2016

**Description:** 

Wetland 8

Facing North

POW/PEM Wetland

Category 1



Photo No. 10

Date:

March 23, 2016

**Description:** 

Wetland 18

Facing North

**PSS** Wetland





**Representative Wetlands** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston–Good Hope 138 kV Rebuild Project

60482520

Photo No. 12

Date:

February 29, 2016

**Description:** 

Wetland 39

Facing East

PSS/PEM Wetland

Category 2



Photo No. 13

Date:

March 03, 2016

**Description:** 

Wetland 49

Facing Northeast

PSS/PFO Wetland





**Representative Wetlands** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston–Good Hope 138 kV Rebuild Project

60482520

Photo No. 14

Date:

March 9, 2016

**Description:** 

Wetland 5

Facing West

PUB Wetland

Category 2



Photo No. 15

Date:

March 10, 2016

**Description:** 

Wetland 9

Facing West

PUB/PFO Wetland





**Representative Wetlands** 

**Client Name:** 

Site Location:

Project No.

AEP Ohio Transco

Poston–Good Hope 138 kV Rebuild Project

60482520

Photo No. 16

Date:

March 9, 2016

**Description:** 

Wetland 6

Facing Northeast

PUB/PEM Wetland



# **ATTACHMENT C.2**

# REPRESENTATIVE STREAM PHOTOGRAPHS



**Representative Streams** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston-Good Hope 138 kV Rebuild Project

60482520

Photo No. 1

Date:

March 1, 2016

**Description:** 

Stream 129

Facing Downstream

Ephemeral

Class 1



Photo No. 2

Date:

March 9, 2016

**Description:** 

Stream 1

Facing Downstream

Ephemeral





**Representative Streams** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston-Good Hope 138 kV Rebuild Project

60482520

Photo No. 3

Date:

March 3, 2016

**Description:** 

Stream 158

Facing Downstream

Ephemeral

Class 2



Photo No. 4

Date:

March 1, 2016

**Description:** 

Stream 133

Facing Downstream

Ephemeral





**Representative Streams** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston-Good Hope 138 kV Rebuild Project

60482520

Photo No. 5

Date:

March 23, 2016

**Description:** 

Stream 59

Facing Downstream

Intermittent

Class 1



#### Photo No. 6

Date:

March 3, 2016

### **Description:**

Stream 192

Facing Upstream

Intermittent





**Representative Streams** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston-Good Hope 138 kV Rebuild Project

60482520

Photo No. 7

Date:

March 22, 2016

**Description:** 

Stream 111

Facing Downstream

Intermittent

Class 2



Photo No. 8

Date:

March 8, 2016

**Description:** 

Stream 181

Facing Downstream

Intermittent





**Representative Streams** 

Client Name:

Site Location:

Project No.

AEP Ohio Transco

Poston-Good Hope 138 kV Rebuild Project

60482520

Photo No. 9

Date:

March 9, 2016

**Description:** 

Stream 11

Facing Upstream

Perennial

Modified Class 2



Photo No. 10

Date:

March 2, 2016

**Description:** 

Stream 146

Facing Downstream

Perennial

QHEI - Good





**Representative Streams** 

**Client Name:** 

Site Location:

Project No.

AEP Ohio Transco

Poston-Good Hope 138 kV Rebuild Project

60482520

Photo No. 11

Date:

March 21, 2016

**Description:** 

Stream 85

Facing Downstream

Perennial

QHEI - Fair



This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

10/20/2016 4:53:35 PM

in

Case No(s). 16-1770-EL-BLN

Summary: Letter of Notification (5) electronically filed by Mr. Hector Garcia on behalf of AEP Ohio Transmission Company