Appendices

Appendix A Field Data Forms

Appendix B Representative Photographs

Appendix C List of Preparers



Appendix AField Data Forms

HHEI Forms



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

OITE MALES CO. L. T. C.					mics 1, 2, 3) .	
SITE NAME/LOCATION Was Courty			NA			
Stream SITE NUMBER 101	1-11	_ RIVER BASIN _	Vaumee Rive	DR	AINAGE AREA (mi²) O	.89
LENGTH OF STREAM REACH (ft) 200 [AI. <u>91.9</u>	USS_LONG.70	D.WYNO RIVER	CODE	RIVER MILE	
DATE 10/1/18 SCORER LS/AS/EL	co	MMENTS			SERVICE VENEZUE VENEZUE	
NOTE: Complete All Items On This Form	- Refer to	o "Field Evaluation	on Manual for Ol	nio's PHW	/H Streams" for Instr	uctions
STREAM CHANNEL	JRAL CHA	NNEL RECOV	ERED TRECOV	ERING A	RECENT OR NO RECO	OVERY
MODIFICATIONS:						
 SUBSTRATE (Estimate percent of every (Max of 40). Add total number of significant 	y type of s nt substrate	ubstrate present. C	heck ONLY two pre	edominant s	substrate TYPE boxes	HHEI
TYPE PE	RCENT	TYPE	o). I mai monic sc	ore is suill	PERCENT	Metric
□ □ BLDR SLABS [16 pts] □ □ BOULDER (>256 mm) [16 pts] □			[3 pt]		5	Points
DD BEDROCK [16 pt]			PACKWOODY D		is] <u>20</u>	Substrate
☐ ☐ COBBLE (65-256 mm) [12 pts]		Ø 🗆 CLA	or HARDPAN [0		70	Max = 40
			K [0 pts]		5	
□ □ SAND (<2 mm) [6 pts]		☐ ☐ ART	FICIAL [3 pts]			+
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock		(A) 7			(B)	A+B
SCORE OF TWO MOST PREDOMINATE SUBST		ES:	TOTAL NUMBER (OF SUBSTE	RATE TYPES:	
2. Maximum Pool Depth (Measure the ma	vlmum no					
evaluation. Avoid plunge pools from road	culverts or	storm water pipes)	(Check ONLY on	valuation re e box):	ach at the time of	Pool Depth Max = 30
> 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts]		Ø -> 5	cm - 10 cm [15 pts			I I
> 10 - 22.5 cm [25 pts]			cm [5 pts] WATER OR MOIS	T CHANNE	L [0 pts]	15
COMMENTS					(0)	12202000
3. BANK FULL WIDTH (Measured as the a	verage of			ONLY one b		Bankfull
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]		∐ > 1. ⊠ ≤ 1	0 m - 1.5 m (> 3' 3" 0 m (≤ 3' 3") [5 pts]	- 4' 8") [1 5 p	ts]	Width _Max=30
> 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]						
COMMENTS			_AVERAGE BAN	KFULL WID	OTH (meters)	5
						POMES I
DI DADIAN ZONE AND EL CODO	This	nformation <u>must</u> a	so be completed			
RI PARIAN ZONE AND FLOODPL RIPARIAN WIDTH		.ITY	ver Left (L) and Rig	ght (R) as lo	oking downstream☆	
L R (Per Bank)	L R	(Most Predominani	per Bank)	L R		
☐ ☐ Wide >10m		Mature Forest, We Immature Forest, 8			Conservation Tillage	
☐ ☐ Moderate 5-10m		Field	mub or Old		Urban or Industrial	
		7.22 (1.22) 10.010 10.011 10.11			Open Pasture, Row	
☐ ☐ Narrow <5m		Residential, Park, I	lew I-leid	图图		
⊠ № None		Residential, Park, I Fenced Pasture	lew I-leid		Crop Mining or Construction	
			lew I-leid		Сгор	
None COMMENTS FLOW REGIME (At Time of Evalue)	00	Fenced Pasture		00	Crop Mining or Construction	
Mone COMMENTS	ation) (Cr	Fenced Pasture		isolated po	Crop Mining or Construction ols, no flow (Intermittent)	
FLOW REGIME (At Time of Evalue) Stream Flowing Subsurface flow with isolated pools COMMENTS	ation) (Cr	Fenced Pasture	Moist Channel, Dry channel, no	isolated po	Crop Mining or Construction ols, no flow (Intermittent)	
FLOW REGIME (At Time of Evalue Stream Flowing Subsurface flow with isolated pools COMMENTS. SINUOSITY (Number of bends per None	ation) (Cr (Interstitia r 61 m (200	Fenced Pasture	Moist Channel, Dry channel, no	isolated po	Crop Mining or Construction ols, no flow (Intermittent)	
FLOW REGIME (At Time of Evalue) Stream Flowing Subsurface flow with isolated pools COMMENTS SINUOSITY (Number of bends per	ation) (Cr (Interstitia	Fenced Pasture	Moist Channel, Dry channel, no eck ONLY one box	isolated po	Crop Mining or Construction ols, no flow (Intermittent) hemeral)	

TOP OF BANK	ADDITIONAL STREAM INFORMATION (This Information Must Also b	e Completed):
Distance from Evaluated Stream	QHEI PERFORMED? - Tyes No QHEI Score	(If Yes, Attach Completed QHEI Form)
CWH Name: Distance from Evaluated Stream Distance from Evaluation Distanc	DOWNSTREAM DESIGNATED USE(S)	
Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA CLEARLY MARK THE SITE LOCATION	DWWH Name: Maumee River	Distance from Evaluated Stream 21 mi
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION USGS Quadrangle Name. Socializing Creen. North	U CWH Name:	Distance from Evaluated Stream
USGS Quadrangle Name: Boculing Creen North NRCS Soil Map Page: NRCS Soil Map Stream Order County: Wood County Township / City Midbledon Third Niscettaneous Base Flow Conditions? (YN): N Date of last precipitation: 10/11/18 Quantity. 0:3:\(\text{O-3:\text{A}} \) Photograph Information: 235 -238 Elevated Turbidity? (YN): N Canopy (% open): 100 Were samples collected for water chemistry? (YN): N (Note lab sample no. or id. and attach results) Lab Number. Field Measures: Temp ("C) 16 Dissolved Oxygen (mg/l) ph (8U) 728 Conductivity (umhos/cm) is the sampling reach representative of the stream (YN) 1 If not, please explain: BIOTIC EVALUATION Performed? (YN): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site 10 number. Include appropriate field data sheets from the Primary Headwater Habital Assessment Manual) Fish Observed? (YN) 1 Voucher? (YN) Salamanders Observed? (YN) Voucher? (YN) Voucher? (YN) Noucher? (YN) Aqualic Macroinvertebrates Observed? (YN) Voucher? (YN) Voucher? (YN) Comments Regarding Biology Voucher? (YN) Aqualic Macroinvertebrates Observed? (YN) Voucher? (YN) Noucher? (Y		
MISCELLANEOUS Base Flow Conditions? (YRI): N Date of last precipitation: 10/N/19 Quantity. 6:31a. Photograph information: 235 -228 Elevated Turbidity? (YRI): N Canopy (% open): 100 Were samples collected for water chemistry? (YRI): N (Note lab sample no. or id. and attach results) Lab Number. Field Measures: Temp (*C) 18 Dissolved Oxygen (mgd) pH (SU.) 188 Conductivity (µmhos/cm) is the sampling reach representative of the stream (YRI) H If not, please explain: BIOTIC EVALUATION Performed? (YRI): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the elle ID number: include appropriate field data sheets from the Primary Headwater Habital Assessment Manual) Fish Observed? (YRI) Voucher? (YRI) Salamanders Observed? (YRI) Voucher? (YRI) Comments Regarding Biology. DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location AS MUS ROAD TOR OF BANK TOR OF BANK		
Base Flow Conditions? (Y/N): N Date of last precipitation: 10/N/19 Quantity. 0.310. Photograph Information: 2.35 - 2.28 Elevated Turbidity? (Y/N): N Canopy (% open): 100 Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number. Field Measures: Temp (*C)	_	
Base Flow Conditions? (YN): _N Date of last precipitation: _\(\text{LONINGE} \) Quantity\(\text{LONINGE} \) Quantity\(\text{LONINGE} \) Photograph information: _\(\text{LONINGE} \) 2.75 -2.78 Elevated Turbidity? (YN): _N Canopy (% open): _\(\text{LOC} \) Were samples collected for water chemistry? (YN): _N (Note lab sample no. or id. and attach results) Lab Number	county: Wood Courty Townsh	ip/city. Middleton Twp
Photograph Information: 235 - 238 Elevated Turbidity? (Y/N): N Canopy (% open): 100 Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: 15 16 16 16 16 16 16 16	MISCELLANEOUS	
Elevated Turbidity? (Y/N): Name Canopy (% open): 100 Were samples collected for water chemistry? (Y/N): Name (Note lab sample no. or id. and attach results) Lab Number		
Were samples collected for water chemistry? (Y/N):	Photograph Information: 275 -278	
Field Measures: Temp (*C)IS Dissolved Oxygen (mg/l)	Elevated Turbidity? (Y/N): N Canopy (% open): \OO	
Additional comments/description of pollution impacts: BiOTIC EVALUATION	Were samples collected for water chemistry? (Y/N):N (Note lab s	sample no. or id. and attach results) Lab Number:
Additional comments/description of pollution impacts: BIOTIC EVALUATION	Field Measures: Temp (°C) 18 Dissolved Oxygen (mg/l)	pH (S.U.) 7.88 Conductivity (µmhos/cm)
BIOTIC EVALUATION Performed? (Y/N):	Is the sampling reach representative of the stream (Y/N) If not, p	lease explain:
BIOTIC EVALUATION Performed? (Y/N):		
Performed? (Y/N): Normal (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habital Assessment Manual) Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Comments Regarding Biology. DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location AS MAD ROAD TOR OF BANK TOR OF BANK	Additional comments/description of pollution impacts:	
FLOW TOP OF BANK Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location AS MUS ROAD TOR OF BANK TOP OF BA	Performed? (Y/N): (If Yes, Record all observations. Voucher ID number. Include appropriate field data Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Ob Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic	sheets from the Primary Headwater Habitat Assessment Manual) served? (Y/N) Voucher? (Y/N) Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
FLOW TOP OF BANK TOP OF BANK TOP OF BANK TOP OF BANK	Include important landmarks and other features of interest for	site evaluation and a narrative description of the stream's location
FLOW - TOP OF BANK		
	Y VELS MY VOS	2
MEDICALIVE MEDICAL PIELS	AGRICULTURAL FIELD	AGRICULTURAL FIEL

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

SITE NAMEROCATION Wood County 1	20inspriement		
Stream 2 SITE NUMBER 10	011-10 RIVER BASIN Maurice T	كنبور DRAINAGE AREA (mi) 0	57
LENGTH OF STREAM REACH (ft) 200			
DATE ONING SCORER LSIAS IE	COMMENTS		
NOTE: Complete All Items On This Form	m - Refer to "Field Evaluation Manual for	Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NA	TURAL CHANNEL	COVERING RECENT OR NO RECO	OVERY
MODIFICATIONS:			
 SUBSTRATE (Estimate percent of ever (Max of 40). Add total number of signific 	ory type of substrate present. Check ONLY two ant substrate types found (Max of 8). Final metric	predominant substrate TYPE boxes	HHEI
TYPE	ERCENT TYPE	PERCENT	Metric
BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts]	SILT [3 pt] LEAF PACKWOOD	26 Y DEBRIS [3 nfs]	Points
□□ BEDROCK [16 pt]	D FINE DETRITUS [3	pts)	Substrate
7.7	CLAY or HARDPAN		Max = 40
	MUCK [0 pts] ARTIFICIAL [3 pts]	10	6
			E CONTROL OF
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock	^(A) 3	(B) 3	A + B
SCORE OF TWO MOST PREDOMINATE SUBS	TRATE TYPES: TOTAL NUMBE	ER OF SUBSTRATE TYPES:	
2. Maximum Pool Depth (Measure the m	naximum pool depth within the 61 meter (200 f	t) evaluation reach at the time of	Pool Depth
evaluation. Avoid plunge pools from roa > 30 centimeters [20 pts]	d culverts or storm water pipes) (Check ONLY > 5 cm - 10 cm [15	one box):	Max = 30
> 22.5 - 30 cm [30 pts]	< 5 cm [5 pts]		25
> 10 - 22.5 cm [25 pts]	NO WATER OR MO	OIST CHANNEL [0 pts]	120
COMMENTS	MAXIMUM P	OOL DEPTH (centimeters):	
3. BANK FULL WIDTH (Measured as the	average of 3-4 measurements) (Chec	ck ONLY one box):	Bankfull
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	☐ > 1.0 m - 1.5 m (> 3 ☐ ≤ 1.0 m (≤ 3' 3") [5]		Width _Max=30
> 1.5 m - 3.0 m (> 4'8" - 9'7") [20 pts]			
COMMENTS	AVERAGE B	NANKFULL WIDTH (meters)	120
RI PARIAN ZONE AND FLOOD	This information must also be complete		
RIPARIAN WIDTH	FLOODPLAIN QUALITY	d Right (R) as looking downstream☆	
L R (Per Bank) Wide >10m	L R (Most Predominant per Bank) Mature Forest, Wetland	L R Conservation Tillage	
☐ ☐ Wide >10m ☐ ☐ Moderate 5-10m	Mature Forest, Wetland Immature Forest, Shrub or Old		
929 (2007)	rieid		
□ □ Narrow <5m	Residential, Park, New Field	Open Pasture, Row Crop	
120 1230 None COMMENTS	Fenced Pasture	☐ ☐ Mining or Construction	
	to find (Ob at ONE)		-
Stream Flowing	duation) (Check ONLY one box): Moist Chan	nel, isolated pools, no flow (Intermittent)	
Subsurface flow with isolated poor COMMENTS		I. no water (Ephemeral)	
		E	
None Number of bends p	per 61 m (200 ft) of channel) (Check ONLY one 1.0 2.0	box):	
		1. ACC CONT.	
克 0.5	1.5	>3	

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
QHEI PERFORMED? - Tyes Q No QHEI Score(If Yes, Attai	ch Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Maumee Piver CWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED	AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Bowling Green North NRCS Soil Map F	Page: NRCS Soil Map Stream Order
County: Wood County Township/City: Midd	deton Tup
MISCELLANEOUS	
Base Flow Conditions? (Y/N): N Date of last precipitation: \0/\\/\8	Quantity: 0.3in
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 100	
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. a	and attach results) Lab Number
Field Measures: Temp (°C)\8.6 Dissolved Oxygen (mg/l)pH (S.U.)	구.나안_Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:	
Additional comments/description of poliution impacts:	
BIOTIC EVALUATION	
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections options	
ID number. Include appropriate field data sheets from the Pr	
Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebra	Voucher? (Y/N) ites Observed? (Y/N)Voucher? (Y/N)
Comments Regarding Biology.	
DRAWING AND NARRATIVE DESCRIPTION OF STREAM	REACH (This <u>must</u> be completed):
Include important landmarks and other features of interest for site evaluation a	
AETRICULTURAL FIE	ELD (CORN)
GIRASS	2
TOP OF BANK	
FLOW -GLIDE - NORTH	hemmen
TOP OF BANK	
PLOWED BY ACTRICULTURAL FI	
PLOWER BY ACTRICULTURAL FI	K1D ((08 N)
ACTRICULTURAL FI	
June 20, 2008 Feins on PHWH Form Page - 2	
3	
7	

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

г		_
		- 1
	LIQ	- 1
	70	

SITE NAME/LOCATION WOOD COUNTY	Pei Granes L	Managara and Amara a	
Stream 3 SITE NUMBER 10	510-03 RIVER BASIN MAI	DRAINAGE AREA (mi) O.HU	•
LENGTH OF STREAM REACH (ft) 200	LAT. 41.4078 LONG -85.66	RIVER CODE RIVER MILE	
DATE 10/10/18 SCORER LS/AS/E	COMMENTS		
		anual for Ohio's PHWH Streams" for Instruction	one
MODIFICATIONS:	ORAL CHANNEL LJ RECOVERED	☐ RECOVERING RECENT OR NO RECOVER	RY
SUBSTRATE (Estimate percent of ever	y type of substrate present. Check	ONLY two predominant substrate TYPE boxes	
(Max of 40). Add total number of significa	int substrate types found (Max of 8). F	inal metric score is sum of boxes A & B.	HEI letric
☐ ☐ BLDR SLABS [16 pts]	ERCENT TYPE SILT [3 pt]	TERCENT	oints
	DD LEAF PAC	KWOODY DEBRIS [3 pts]	
		Kiloo [a pis]	ıbstrate ax = 40
☐ ☐ GRAVEL (2-64 mm) [9 pts]	DB MUCK [0]	22.1.2.2.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	
ПП рамприя	□ □ ARTIFICIA		3
Total of Percentages of	(A)	(B)	A + B
Bidr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBST		311	4+6
		L NUMBER OF SUBSTRATE TYPES:	
 Maximum Pool Depth (Measure the ma evaluation. Avoid plunge pools from road 	eximum pool depth within the 61 me	eter (200 ft) evaluation reach at the time of	ol Depth
> 30 centimeters [20 pts]	□ > 5 cm -	10 cm [15 pts]	ax = 30
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	☐ < 5 cm [5	pts] ER OR MOIST CHANNEL [0 pts] 2	5
		20 4	
COMMENTS	MA	XIMUM POOL DEPTH (centimeters):	
3. BANK FULL WIDTH (Measured as the a		(Check ONLY one box):	ankfull
3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]			Width ax=30
> 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]		1.6	2~
COMMENTS	AV	ERAGE BANKFULL WIDTH (meters)	20
RI PARIAN ZONE AND FLOODP	This information must also be	completed eft (L) and Right (R) as looking downstream☆	
RIPARIAN WIDTH	FLOODPLAIN QUALITY		
L R (Per Bank) Wide >10m	L R (Most Predominant per E Mature Forest, Wetland		
☐ ☐ Moderate 5-10m	Immature Forest, Shrub	or Old	
	Field	Open Dealuse Deur	
☐ ☐ Narrow <5m ☑ ☑ None	Residential, Park, New F	Crop	
COMMENTS	☐ ☐ Fenced Pasture	☐ ☐ Mining or Construction	
FLOW REGIME (At Time of Evalu	uation) (Check ONLY and Law)		
★ Stream Flowing	Л м	oist Channel, isolated pools, no flow (Intermittent)	
Subsurface flow with isolated pools COMMENTS	s (Interstitial)	y channel, no water (Ephemeral)	
None	er 61 m (200 ft) of channel) (Check 0		
□ 0.5	1.5		
STREAM GRADIENT ESTIMATE	Same to the second of the seco		
Flat to Moderate	Moderate (2 ti 100 ti)	Moderate to Severe Severe Severe 19 tb 100 tb	

	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed	<u>0:</u>
CWH Name: Distance from Evaluated Stream CHANNAME Distance from Evaluated Stream Distanc	QHEI PERFORMED? - Tyes ANO QHEI Score(If Yes,	Altach Completed QHEI Form)
USGS Quadrangle Name: Bowling Green No.** NRCS Soil Map Page: NRCS Soil Map Stream Order Township / City Plain Turge MISCELLANEOUS Base Flow Conditions? (YNN): Date of last precipitalition: \(\(\triangle \triangle	X WWH Name: Maumee River	Distance from Evaluated Stream
Township / City. Plain Turp MISCELLANEOUS Base Flow Conditions? (YN): Date of last precipitation: _\(O/2.1/\dot \)	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSH	HED AREA. CLEARLY MARK THE SITE LOCATION
MISCELLANEOUS Base Flow Conditions? (Y/N):	USGS Quadrangle Name: bowling Green North NRCS Soil M	ap Page: NRCS Soil Map Stream Order
Base Flow Conditions? (Y/N):	County: Wood County Township / City. 1	Phin Twp
Photograph Information: QA - 102 Elevated Turbidity? (Y/N): L Canopy (% open): 100 Were samples collected for water chemistry? (Y/N): L (Note lab sample no. or id. and attach results) Lab Number	MISCELLANEOUS	
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. and attach results) Lab Number		
Field Measures: Temp (*C)\\(\text{Q}\) Dissolved Oxygen (mg/N) \\ Is the sampling reach representative of the stream (Y/N) \text{\		
If not, please explain: BIOTIC EVALUATION Performed? (Y/N):N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habital Assessment Manual) Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N) Aqualic MacroInvertebrates Observed? (Y/N) Voucher? (Y/N) Comments Regarding Biology. DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location ACTEX CULTURAL FIELD TX oF GAPY.	Were samples collected for water chemistry? (Y/N): (Note lab sample no. or	id. and attach results) Lab Number
BIOTIC EVALUATION Performed? (Y/N):N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) Voucher? (Y/N) Salamenders Observed? (Y/N) Voucher? (Y/N) Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Comments Regarding Biology DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location ACELCULTURAL FIELD Total of Sample.	Field Measures: Temp (°C)\\(\bar{A}, \bar{A} \) Dissolved Oxygen (mg/l) pH (S.U	J.) 7.45 Conductivity (µmhos/cm)
BIOTIC EVALUATION Performed? (Y/N):N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Comments Regarding Biology DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location ACPL/CULTURAL FIELD TO SERAPL GLIDE — GLIDE	Is the sampling reach representative of the stream (Y/N) If not, please explain	<u> </u>
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location AGRICULTURAL FIELD TO SERAPY GLIDE - GLIDE	BIOTIC EVALUATION Performed? (Y/N):N (If Yes, Record all observations. Voucher collections op ID number. Include appropriate field data sheets from the Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvert Comments Regarding Biology	tional. NOTE: all voucher samples must be labeled with the site ne Primary Headwater Habitat Assessment Manual)
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location AGRICULTURAL FIELD TO AFRAPY FLOW		
FLOW - GLIDE - L DUCANTER	Include important landmarks and other features of interest for site evaluati	on and a narrative description of the stream's location CULTURAL FIELD
TOD OF BAME GRASS ROW	TOD OF BANK	CONCRETE
BISHOR ROAD		

-5

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

	20105000000			
SITE NAME/LOCATION Wood Courty T Pocker Creek SITE NUMBER 10			NACE AREA (mil) A	
LENGTH OF STREAM REACH (ft) 200	AT LILLEAN LONG	-97/4WL DIVED CODE	INAGE AREA (MI') O.Q	
DATE 10124/18 SCORER L5/AS				
NOTE: Complete All Items On This Form	- Refer to "Field Evalu	ation Manual for Ohio's PHWI	l Streams" for Instru	ictions
STREAM CHANNEL NONE / NATI	JRAL CHANNEL TREC	OVERED TRECOVERING A	RECENT OR NO RECO	VERY
MODIFICATIONS:				
	-			
SUBSTRATE (Estimate percent of ever	y type of substrate presen	nt. Check ONLY two predominant su	bstrate TYPE boxes	1.1111-1
(Max of 40). Add total number of significa TYPE PE		ax of 8). Final metric score is sum of		HHEI Metric
BLDR SLABS [16 pts]	RCENT TYPE	SILT [3 pt]	PERCENT	Points
☐ ☐ BOULDER (>256 mm) [16 pts]	DD L	EAF PACKWOODY DEBRIS [3 pts	1 5	0.1.1.1.
□□ BEDROCK [16 pt] _		INE DETRITUS [3 pts]		Substrate Max = 40
~ ~		CLAY or HARDPAN [0 pt]	60	
		MUCK [0 pts] ARTIFICIAL [3 pts]	25	
		Will lowe to bret		Essence !
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock	(A)		(B) 1 \	A + B
SCORE OF TWO MOST PREDOMINATE SUBST		TOTAL NUMBER OF SUBSTRA	ATE TYPES:	
2. Maximum Pool Depth (Measure the ma	vimum pool donth within	the 61 meter (200 ft) evaluation rea	sh at the time of	Do al Danth
evaluation. Avoid plunge pools from road	culverts or storm water pipe	es) (Check ONLY one box):	cii at the time of	Pool Depth Max = 30
> 30 centimeters [20 pts]	2	> 5 cm - 10 cm [15 pts]		
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]		< 5 cm [5 pts] NO WATER OR MOIST CHANNEL	[0 pts]	15
			101	PER SE
COMMENTS		MAXIMUM POOL DEPTH (c	entimeters):	
3. BANK FULL WIDTH (Measured as the		nts) (Check ONLY one bo	x):	Bankfull
> 4.0 meters (> 13') [30 pts]		> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt	2.7	Width
		마르아(1) 화장보다	s)	Width Max=30
☐ > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]	8	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts]	22	Width
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	8	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts]	22	Width Max=30
☐ > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]	8	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID	22	Width Max=30
☐ > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts]	This information mus	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID	TH (meters)	Width Max=30
☐ > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS RI PARIAN ZONE AND FLOODP RIPARIAN WIDTH	This information mustain QUALITY FLOODPLAIN QUALITY	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc	TH (meters)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS	This information mustain QUALITY LAIN QUALITY FLOODPLAIN QUALITY L R (Most Predomin	> 1.0 m - 1.5 m (> 3'3" - 4'8") [15 pt ≤ 1.0 m (≤ 3'3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as location and per Bank) L R	TH (meters) 2.2 bking downstream☆	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS	This information mustain QUALITY FLOODPLAIN QUALITY L R (Most Predomin	> 1.0 m - 1.5 m (> 3'3" - 4'8") [15 pt ≤ 1.0 m (≤ 3'3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as location and per Bank) Wetland	TH (meters) 2.2 Sking downstream Conservation Tillage	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS RI PARIAN ZONE AND FLOODP RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m	This information mustain QUALITY &NOTI FLOODPLAIN QUALITY L R (Most Predomin Mature Forest, Immature Forest	> 1.0 m - 1.5 m (> 3'3" - 4'8") [15 pt ≤ 1.0 m (≤ 3'3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as location and per Bank) Wetland	TH (meters) 2.2 oking downstream Conservation Tillage Urban or Industrial	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS RI PARIAN ZONE AND FLOODP RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow <5m	This information mustain QUALITY FLOODPLAIN QUALITY L R (Most Predomin Mature Forest, Immature Forest, Field Residential, Pa	> 1.0 m - 1.5 m (> 3'3" - 4'8") [15 pt ≤ 1.0 m (≤ 3'3") [5 pts] AVERAGE BANKFULL WID et also be completed E: River Left (L) and Right (R) as loc mant per Bank) Wetland st. Shrub or Old	TH (meters) 2.2 Sking downstream Conservation Tillage	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS	This information must LAIN QUALITY ANOTI FLOODPLAIN QUALITY L R (Most Predomin Mature Forest, Immature Forest	> 1.0 m - 1.5 m (> 3'3" - 4'8") [15 pt ≤ 1.0 m (≤ 3'3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc mant per Bank) Wetland t, Shrub or Old Trk, New Field	TH (meters) 2.2 Sking downstream Conservation Tillage Urban or Industrial Open Pasture, Row	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS RI PARIAN ZONE AND FLOODP RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow <5m	This information mustain QUALITY ANOTIFLOODPLAIN QUALITY L R (Most Predomin Mature Forest, Immature Forest, Field Residential, Pa	> 1.0 m - 1.5 m (> 3'3" - 4'8") [15 pt ≤ 1.0 m (≤ 3'3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc mant per Bank) Wetland St, Shrub or Old	TH (meters) 22 Sking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS	This information mustain QUALITY ANOTH	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc nant per Bank) Wetland St. Shrub or Old st. Shrub or Old st. New Field cox):	th (meters) 2.2 Sking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction	Width Max=30
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> 4.0 meters (> 13') [30 pts]	This information mustain QUALITY ANOTOFICODPLAIN QUALITY L R (Most Predomin Mature Forest, Immature Forest, Field Residential, Paragraphy Fenced Pasture Forest, Immature Forest, Field (Check ONLY one Institution) (Check ONLY one Institution)	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc nant per Bank) Wetland St. Shrub or Old st. Shrub or Old st. New Field cox):	TH (meters) 2.2 Sking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Is, no flow (Intermittent)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS RI PARIAN ZONE AND FLOODP RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of Evaluation of Evalu	This information mustain QUALITY ☆NOTE FLOODPLAIN QUALITY L R (Most Predomin	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc mant per Bank) Wetland Ull st, Shrub or Old Ull rk, New Field Ull Dox): Moist Channel, isolated poor Dry channel, no water (Eph	TH (meters) 2.2 Sking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Is, no flow (Intermittent)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS	This information mustain QUALITY ☆NOTE FLOODPLAIN QUALITY L R (Most Predomin	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc mant per Bank) Wetland Ull st, Shrub or Old Ull rk, New Field Ull Dox): Moist Channel, isolated poor Dry channel, no water (Eph	TH (meters) 2.2 Sking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Is, no flow (Intermittent)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS	This information mustain QUALITY ANOTH FLOODPLAIN QUALITY L R (Most Predomin Mature Forest, Immature Forest	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc mant per Bank) Wetland U st, Shrub or Old rk, New Field mant Description Moist Channel, isolated poor Dry channel, no water (Eph (Check ONLY one box):	ching downstream A Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Is, no flow (Intermittent) emeral)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 4' 8" - 9' 7") [20 pts] COMMENTS	This information mustain QUALITY ANOTH FLOODPLAIN QUALITY L R (Most Predomin Mature Forest, Immature Forest	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pt ≤ 1.0 m (≤ 3' 3") [5 pts] AVERAGE BANKFULL WID st also be completed E: River Left (L) and Right (R) as loc nant per Bank)	TH (meters) 22 TH (meters) A Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction Is, no flow (Intermittent) emeral)	Width Max=30

ADDITIONAL STREAM INFORMATIO	N (This Information Mu	st Also be Completed):		
QHEI PERFORMED? -	es No QHEI Score	(If Yes, Altac	h Completed QHEI Form)	
DOWNSTREAM DESIGNAT	ED USE(S)			
WWH Name: Packer creek				
CWH Name:				
DEWH Name:			Distance from Evaluated Stre	eam
MAPPING: ATTACH COPIES	OF MAPS, INCLUDING	THE ENTIRE WATERSHED	AREA. CLEARLY MARK THE S	SITE LOCATION
USGS Quadrangle Name: Bouling	Green North	NRCS Soil Map Pa	age: NRCS Soil Map	Stream Order
County: Wood Country		Township / City: Middle	ton Twp	
MISCELLANEOUS				
Base Flow Conditions? (Y/N):	Date of last precipitation	n: 1012\/\8	Quantity: Oplin	
Photograph Information:			*******	and the second s
Elevated Turbidity? (Y/N):	Canopy (% open): _	100		
Were samples collected for water cher	nistry? (Y/N):(f	Note lab sample no. or id. ar	nd attach results) Lab Number	**
Field Measures: Temp (°C) 7.9	_ Dissolved Oxygen (mg	л)pH (S.U.) <u>7</u> .	Conductivity (µmhos/c	m)
Is the sampling reach representative o	f the stream (Y/N)	If not, please explain:		
	N (
Additional comments/description of po				
BIOTIC EVALUATION				
Performed? (Y/N): (If Yes ID num			. NOTE: all voucher samples m mary Headwater Habitat Assess	
Fish Observed? (Y/N) Vouch Frogs or Tadpoles Observed? (Y/N)	er? (Y/N) Salama Voucher? (Y/N)	nders Observed? (Y/N) Aquatic Macroinvertebrate	Voucher? (Y/N) Voi	ucher? (Y/N)
Comments Regarding Biology:				
DRAWING AND NA	DDATIVE DESCRI	DTION OF STREAM	REACH (This must be	a completed).
Include important landmarks a			•	
moduo important ianamants c			a a namative description of t	*
-		DLETON PIKE		N
Cy	2000 TO STEE			SLOPE
ERIKA	3 3	GRASS ROW		SLOPE
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PHWH Form Page - 2

Appendix B Representative Photographs





Photograph 1: Facing north towards King Road and looking downstream along Stream 1.



Photograph 2: Facing north from Middleton Pike and looking downstream along Stream 1.



Photograph 3: Facing north towards Middleton Pike and looking downstream along Stream 1.



Photograph 4: Facing south, looking upstream along Stream 2.





Photograph 5: Facing north, looking downstream along Stream 2.



Photograph 6: Facing west near the existing Brim Substation, looking downstream along Stream 3.





Photograph 7: Facing east near the Bishop Road/Hull Prairie Road intersection, looking upstream along Stream 3.



Photograph 8: Facing north near the Bishop Road/Hull Prairie Road intersection, looking downstream along Stream 3.



Photograph 9: Facing north near Hull Prairie Road, looking downstream along Stream 3.



Photograph 10: Facing north near Hull Prairie Road, looking downstream along Packer Creek.



Photograph 11: Facing northeast towards Pond 1, a stormwater detention basin.



Photograph 12: Facing northeast towards Pond 2, a stormwater detention basin.



Photograph 13: Facing north towards Pond 3, a stormwater detention basin.



Appendix C List of Preparers



Ann Schweitzer

Ms. Schweitzer is an Environmental Scientist with GPD Group. She has experience with field data collection, ecological surveys, and Environmental Site Assessment (ESA) projects. Ann assists in coordination efforts with the State Historic Preservations Office (SHPO), Ohio Environmental Protection Agency (OEPA), the U.S. Fish and Wildlife Service (USFWS) and various Divisions of Ohio Department of Natural Resources (ODNR) to complete file reviews and natural heritage database reviews. She also assists in the preparation of technical documents.

Special Training

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Course/Program Ecological Training – Ohio Department of Transportation	Date Completed November 2012
Waterway Permits Training – Ohio Department of Transportation	November 2012
Wetland Delineation with Emphasis on Soils and Hydrology- Wetland Training Institute	June 2013
Categorical Exclusion (CE) Training— Ohio Department of Transportation	April 2014
Environmental Site Assessment (ESA) Training – Ohio Department of Transportation	May 2014
Habitat Assessment Using the Qualitative Habitat Evaluation Index – Midwest Biodiversity Institute	May 2014
Sedge Identification Workshop – Ohio Wetland Association	June 2014
Wetland Plant Identification – Dr. Robert Mohlenbrock	September 2014
Section 106 Training – Ohio Department of Transportation	September 2014
Section 4(f)/6(f) Training – Ohio Department of Transportation	October 2014
Phase I & II Environmental Site Assessment Processes – ASTM International	November 2014
OSHA 40-Hour Health and Safety Training – Cincinnati State	December 2014
Approved Mussel Surveyor – Ohio Department of Natural Resources	February 2015
QDC Level 2 for the Surface Water Credible Data Program – Ohio EPA	November 2015
Ohio Rapid Assessment Method for Wetland v5.0 Training Course – Ohio EPA	May 2015
Trees of the Eastern Forest – Arc of Appalachia Preserve System: The Forest School	July 2015
Public Involvement Training - Ohio Department of Transportation	February 2016
Freshwater Mussel Identification Workshop – The Ohio State University	April 2016



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Commission of Ohio Docketing Information System on

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in

Case No(s). 18-1335-EL-BTX

Summary: Application for a Certificate of Environmental Compatibility and Public Need (Part 8 of 8) electronically filed by Mr. Robert J Schmidt on behalf of American Transmission Systems Inc.