ADDITIONAL STREAM INFORMATION (This Information Must Als	so be Completed):			
QHEI PERFORMED? - Yes V No QHEI Score	(If Yes, Attach	Completed QHEI Forn	m)	
DOWNSTREAM DESIGNATED USE(S)				ı
WWH Name: Dining Fork of Conotton Creek		Distance from Evaluat		-
EWH Name:		Distance from Evaluate Distance from Evaluate		
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE	_			
USGS Quadrangle Name: Scio	NRCS Soil Map Pag		Map Stream Order	
County: Carroll Town	nship / City: Loudon/ I	Nilgore		Τ
MISCELLANEOUS				
Base Flow Conditions? (Y/N):_N Date of last precipitation:	04/30/14	Quantity: 3.28		
Photograph Information: Up, Dn SKD003				
Elevated Turbidity? (Y/N): Y Canopy (% open): 15	5%			
Were samples collected for water chemistry? (Y/N): (Note I	ab sample no. or id. and	d attach results) Lab No	umber:	
Field Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.)	Conductivity (µm	hos/cm)	1
v	ot, please explain:			-
forested and steeper upstream, PFO/EM wetland abutting do	-			_
Torested and steeper upstream, i i O/Lin wetland abutting do	wiistream to ortgoor.			
·				=
Agricultural runoff from upstream corn fields and cattle pasture.				
Performed? (Y/N): N (If Yes, Record all observations. Vouch ID number. Include appropriate field date of the Programment of the ID number. Include appropriate field date of the ID numb	ata sheets from the Prima Observed? (Y/N) N atic Macroinvertebrates	Voucher? (Y/N) Observed? (Y/N)		site
				_
DRAWING AND BARRATIVE DESCRIP	TION OF STREAM	REACH (This m	ust he completed).	
			ption of the stream's loca	ation
Pro # 1	6	111	- 000	
	PSS	NI	6 HZINICE	1
ulvide -	PFO -	1		11
The state of the s	1			
FLOW ?				//
The street	1	$\langle \rangle$	1//	
/ Therefore	- Col	-7 (7	
CONSTRUCTION PEO				
G.		Ond	wet /	
INTERMITTENT		Y (D		
,				_



SITE NAME/LOCATION SKD004	
SITE NAME/LOCATION SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	0.02
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45832 LONG81.03566 RIVER CODE RIVER MILE	0.102
DATE 04/30/14 SCORER KD,RGinter COMMENTS PFO/PSS WRG009 abutting, connects to SKD00	03
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	COVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes	ı HHEI
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts] 0% SILT [3 pt] 10%	Points
BOULDER (>256 mm) [16 pts] BEDROCK [16 pt] O LEAF PACK/WOODY DEBRIS [3 pts] O O O O O O O O O O O O O	Substrat
☐ ☐ COBBLE (65-256 mm) [12 pts] ☐ ☐ ☐ CLAY or HARDPAN [0 pt] 40%	Max = 40
GRAVEL (2-64 mm) [9 pts] 0% MUCK [0 pts]	14
SAND (<2 mm) [6 pts] 0% ARTIFICIAL [3 pts] 0%	
Total of Percentages of 10.00% (A) Substrate Percentage Check 100%	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 9 TOTAL NUMBER OF SUBSTRATE TYPES: 5	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 9	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.0 m (<=3' 3") [5 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	
COMMENTS Culverts under pipeline access lane, second chn AVERAGE BANKFULL WIDTH (meters): 1.20	15
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	
LR (Per Bank) LR (Most Predominant per Bank) LR	
Wide >10m Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old	
Field Field Urban or industrial	
Narrow <5m Residential, Park, New Field Open Pasture, Row C	rop
None Fenced Pasture Mining or Construction	n
COMMENTS PFO/PEM wetland abutting, forested north, access rd culvert crossing near meter stn.	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermitten	t)
Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral)	7
COMMENTS_Flowing heavily during survey due to steady rain.	
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
None 1.0 2.0 3.0 3.0 5 3	
STREAM GRADIENT ESTIMATE	
Flat (0.5 ft/100 ft) Flat to Moderate Moderate Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/	100 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Al	so be Completed):
QHEI PERFORMED? - Yes V No QHEI Score	(If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name: Dining Fork of Conotton Creek	Distance from Evaluated Stream
CWH Name:EWH Name:	Distance from Evaluated Stream
	Distance from Evaluated Stream
	ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Scio	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Carroll Tow	nship / City: Loudon/Kilgore
MISCELLANEOUS	
Base Flow Conditions? (Y/N):N Date of last precipitation:	04/30/14 Quantity: 3.28
Photograph Information: Up, Dn SKD004	
	5%
N	lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (µmhos/cm)
v	ot, please explain:
forested and steeper upstream, PFO/EM wetland abutting do	
lorested and steeper apstream, i i o/Em wettand assuming ac	Switchen, ratio float flotor out.
Additional comments/description of pollution impacts: Agricultural runoff from upstream corn fields and cattle pasture	
ID number. Include appropriate field da Voucher? (Y/N) N Salamanders	her collections optional. NOTE: all voucher samples must be labeled with the site at a sheets from the Primary Headwater Habitat Assessment Manual) Observed? (Y/N) Voucher? (Y/N) N Voucher? (Y/N) Voucher? (Y/N)
2	
	PTION OF STREAM REACH (This must be completed):
	erest for site evaluation and a narrative description of the stream's location
Fo FO	PSS NI PASMER
LIVER - LONG	65 133
in the state of th	PFO
FLOW TO TO	
// non	
The state of the s	
/ will b	
CONSTRUCTION PF	
C.	PATURE /
1	
INTERMITTENT	



OUTE NAME # COATION SPG002	
SITE NAME/LOCATION SRG002 SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0	03
LENGTH OF STREAM REACH (ft) 200 LAT. 40.45782 LONG81.02802 RIVER CODE RIVER MILE	.00
DATE 04/28/14 SCORER ROD Ginter COMMENTS PEM/PSS WRG001 abutting, connects SRG001	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING RECENT OR NO RECOVERED RECOVERING RECOVERING RECENT OR NO RECOVERED RECOVERED RECOVERING RECENT OR NO RECOVERED RECOV	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes	
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE PERCENT	HHEI Metric
BLDR SLABS [16 pts] O SILT [3 pt]	Points
BOULDER (>256 mm) [16 pts] 0% LEAF PACK/WOODY DEBRIS [3 pts] 0% SEDROCK [16 pt] 0% 0%	Substrat
□ □ BEDROCK [16 pt] 0% □ FINE DETRITUS [3 pts] 0% □ □ COBBLE (65-256 mm) [12 pts] □ □ CLAY or HARDPAN [0 pt] 0%	Max = 40
GRAVEL (2-64 mm) [9 pts] 20% MUCK [0 pts] 0%	40
SAND (<2 mm) [6 pts] 0% ARTIFICIAL [3 pts] 0%	10
Total of Percentages of 10.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TIPES: 4	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Wiax = 30
> 22.5 - 30 cm [30 pts]	15
	15
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 8	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	
COMMENTS Wider west of Pontiff Rd. AVERAGE BANKFULL WIDTH (meters): 1.20	15
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY \$\text{NOTE: River Left (L) and Right (R) as looking downstream \$\text{x}}	
RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R	
Wide >10m	
Moderate 5-10m Immature Forest, Shrub or Old Urban or Industrial	
Narrow <5m Residential, Park, New Field Open Pasture, Row Cre	p
None Penced Pasture Mining or Construction	
COMMENTS PSS/PEM wetland abutting, open forest and fallow corn field beyond.	-
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	
Stream Flowing Subsurface flow with isolated pools (Interstitial) Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral))
COMMENTS Flowing during survey due to steady rain.	_
SINUOSITY (Number of ben <u>ds</u> per 61 m (200 ft) of channel) (Check ONLY one box):	
☐ None ☐ 1.0 ☐ 2.0 ☐ 3.0	
0.5 1.5 2.5 >3	
STREAM GRADIENT ESTIMATE	
Flat (0.5 ft/100 ft) Flat to Moderate Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/1	υυ π)

ADDITIONAL STREAM INFO	DRMATION (This Information Must Also	o be Completed):		
QHEI PERFORME	D? - Yes ✓ No QHEI Score	(If Yes, Attac	ch Completed QHEI Forn	n)
DOWNSTREAM D	ESIGNATED USE(S)			
WWH Name: Dining For	k of Conotton Creek		_ Distance from Evaluate	ed Stream 0.07
			Distance from Evaluate	
EWH Name:			Distance from Evaluate	d Stream
	H COPIES OF MAPS, INCLUDING THE E	NTIRE WATERSHED	AREA. CLEARLY MARK	THE SITE LOCATION
JSGS Quadrangle Name: S	cio	NRCS Soil Map Pa	age: NRCS Soil	Map Stream Order
County: Carroll	Towns	ship / City: Loudon	/Kilgore	
MISCELLANEOUS				
Base Flow Conditions? (Y/N)		04/28/14	Quantity: 1.52	
Photograph Information:Up	, Dn SRG002			
Elevated Turbidity? (Y/N):	Canopy (% open): 759	%		
Were samples collected for w	vater chemistry? (Y/N): N (Note lal	b sample no. or id. a	nd attach results) Lab Nu	ımber:
Field Measures: Temp (°C	Dissolved Oxygen (mg/l)	pH (S.U.)	Conductivity (μm	hos/cm)
s the sampling reach represe	entative of the stream (Y/N) Y If not	, please explain:		
	ostream, wetland abutting in ag fields o	downstream.		
Additional comments/descrip	tion of pollution impacts:			
	rn fields and cattle pasture.			
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observed? Comments Regarding Biology	(If Yes, Record all observations. Voucher ID number. Include appropriate field date Voucher? (Y/N) Salamanders C? (Y/N) Voucher? (Y/N) Aqua	a sheets from the Prim	·	
No aquatic creatures obse	rved, potential amphibian habitat.			
Include important land	ND NARRATIVE DESCRIPTION dmarks and other features of interest for Straib sladfeld			
FLOW N SWOOD GOVERN	Calvert 2	skunk caking	and a dearly free	Sept of the sept o





SITE NAME/LOCATION SRG003	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	.01
LENGTH OF STREAM REACH (ft) 200 LAT. 40.45841 LONG81.02887 RIVER CODE RIVER MILE	
DATE 04/28/14 SCORER Rod Ginter COMMENTS steep eph rill from wetland seep, connects to S	RG002
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING RECENT OR NO RECOVERED RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERED RECOVERING RECENT OR NO RECOVERED	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	1 01116
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
COBBLE (65-256 mm) [12 pts]	
GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] MUCK [0 pts] ARTIFICIAL [3 pts] 0%	9
Total of Percentages of 0.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 4	
	<u> </u>
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankful Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS 1.0 ft OHWM, 2.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.60	5
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	
L R (Per Bank) L R (Most Predominant per Bank) L R	
Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old	
Moderate 5-10m Field Urban or Industrial	
Narrow <5m Residential, Park, New Field Open Pasture, Row Cr	op
None Fenced Pasture Mining or Construction	
COMMENTS PEM wetland abutting at top, open forest both sides.	_
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	_
	_) <u> </u>
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. Woist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)	_) <u> </u>
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 3.0	_) <u> </u>
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 3.0	1

	MED? - Yes ✓ No QHEI Score	e (If Yes, Atta	ch Completed QHEI Form))
	DESIGNATED USE(S) Fork of Conotton Creek		Distance from Evaluated	d Stream 0.08
			Distance from Evaluated	
EWH Name:			Distance from Evaluated	Stream
MAPPING: ATT	ACH COPIES OF MAPS, INCLUDING	THE ENTIRE WATERSHEE	AREA. CLEARLY MARK	THE SITE LOCATION
JSGS Quadrangle Name:	Scio	NRCS Soil Map F	Page: NRCS Soil N	Map Stream Order
County: Carroll		Township / City:Loudo	n/Kilgore	
MISCELLANEO	US			
Base Flow Conditions? (Y/	(N):_N _ Date of last precipitation	on:04/28/14	Quantity: 1.52	
Photograph Information:	Up, Dn SRG003			
Elevated Turbidity? (Y/N):	v	30%		
	N	Note lab sample no orid	and attach results) Lab Nun	mher.
			,	
Field Measures: Temp	Y	, , ,	Conductivity (µmh	os/cm)
	esentative of the stream (Y/N)	If not, please explain:		
torested and steeper	upstream, wetland abutting in ag f	rieids downstream.		
	corn fields and cattle pasture.			
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N)	ATION (If Yes, Record all observations. ID number. Include appropriate fi	Voucher collections optiona	. NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N)	
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observed Comments Regarding Biol	Corn fields and cattle pasture. ATION (If Yes, Record all observations. ID number. Include appropriate find the voucher? (Y/N) N Salamared? (Y/N) N Voucher? (Y/N) N Ogy:	Voucher collections optiona ield data sheets from the Pr nders Observed? (Y/N) Aquatic Macroinvertebra	. NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N)	sessment Manual)
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observed Comments Regarding Biol	ATION (If Yes, Record all observations. ID number. Include appropriate fi Voucher? (Y/N) N Salamar ed? (Y/N) N Voucher? (Y/N)	Voucher collections optiona ield data sheets from the Pr nders Observed? (Y/N) Aquatic Macroinvertebra	. NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N)	sessment Manual)
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observed Comments Regarding Biol	Corn fields and cattle pasture. ATION (If Yes, Record all observations. ID number. Include appropriate find the voucher? (Y/N) N Salamared? (Y/N) N Voucher? (Y/N) N Ogy:	Voucher collections optiona ield data sheets from the Pr nders Observed? (Y/N) Aquatic Macroinvertebra	. NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N)	sessment Manual)
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biol No aquatic creatures ob	ATION (If Yes, Record all observations. ID number. Include appropriate find Voucher? (Y/N) N Salamared? (Y/N) N Voucher? (Y/N) N ogy: served, potential amphibian habita	Voucher collections optional ield data sheets from the Production of the Production	NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N) N tes Observed? (Y/N)	voucher? (Y/N)
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biol No aquatic creatures ob	ATION (If Yes, Record all observations. ID number. Include appropriate find Voucher? (Y/N) N Salamar ed? (Y/N) N Voucher? (Y/N) N ogy: served, potential amphibian habita	Voucher collections optional ield data sheets from the Pronders Observed? (Y/N) Aquatic Macroinvertebra PTION OF STREAM Forest for site evaluation are	NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N) N es Observed? (Y/N) N	Voucher? (Y/N) Pe completed): of the stream's location
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biol No aquatic creatures ob	ATION (If Yes, Record all observations. ID number. Include appropriate find the voucher? (Y/N) N Salamared? (Y/N) N Voucher? (Y/N) N Ogy: Served, potential amphibian habitation with the volume of	Voucher collections optional ield data sheets from the Pronders Observed? (Y/N) Aquatic Macroinvertebra PTION OF STREAM Forest for site evaluation are	NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N) N es Observed? (Y/N) N	Voucher? (Y/N) Pe completed): of the stream's location
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biol No aquatic creatures ob	ATION (If Yes, Record all observations. ID number. Include appropriate find Voucher? (Y/N) N Salamar ed? (Y/N) N Voucher? (Y/N) N ogy: served, potential amphibian habita	Voucher collections optional ield data sheets from the Pronders Observed? (Y/N) Aquatic Macroinvertebra PTION OF STREAM Forest for site evaluation are	NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N) N Tes Observed? (Y/N) REACH (This must be	Voucher? (Y/N) Pe completed): of the stream's location
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biol No aquatic creatures ob DRAWING Include important landing Include im	ATION (If Yes, Record all observations. ID number. Include appropriate find voucher? (Y/N) N Salamar (Y/N) N Voucher? (Y/N) N Salamar (Y/N) N	Voucher collections optional ield data sheets from the Pronders Observed? (Y/N) Aquatic Macroinvertebra PTION OF STREAM Forest for site evaluation are	NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N) N es Observed? (Y/N) N	Voucher? (Y/N) Pe completed): of the stream's location
BIOTIC EVALU Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biol No aquatic creatures ob DRAWING Include important landing Include im	ATION (If Yes, Record all observations. ID number. Include appropriate find voucher? (Y/N) N Salamared? (Y/N) N Voucher? (Y/N) N Ogy: served, potential amphibian habita AND NARRATIVE DESCRIP	Voucher collections optional ield data sheets from the Pronders Observed? (Y/N) Aquatic Macroinvertebra PTION OF STREAM Forest for site evaluation are	NOTE: all voucher sample mary Headwater Habitat Ass Voucher? (Y/N) N es Observed? (Y/N) N	Voucher? (Y/N) Pe completed): of the stream's location



SITE NAME/LOCATION SRG004	
SITE NAME/LOCATION SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	01
LENGTH OF STREAM REACH (ft) 200 LAT. 40.45809 LONG81.02868 RIVER CODE RIVER MILE	
DATE 04/28/14 SCORER Rod Ginter COMMENTS steep eph rill from wetland seep, connects to Si	RG002
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes	HHEI
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE PERCENT	Metri
□ □ BLDR SLABS [16 pts]	Points
BOULDER (>256 mm) [16 pts] BEDROCK [16 pt] 0% LEAF PACK/WOODY DEBRIS [3 pts] 40% 0% FINE DETRITUS [3 pts]	Substrat
COBBLE (65-256 mm) [12 pts]	Max = 40
GRAVEL (2-64 mm) [9 pts] 10% MUCK [0 pts] 0%	g
SAND (<2 mm) [6 pts]	
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock O.00% (A) Substrate Percentage Check 100%	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 3	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 4	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	IVIAX-30
COMMENTS 1.0 ft OHWM, 2.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.70	5
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	
L R (Per Bank) L R (Most Predominant per Bank) L R	
✓ Wide >10m ✓ Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old	
Field Field	
Narrow <5m Residential, Park, New Field Open Pasture, Row Cr	Эр
None Fenced Pasture Mining or Construction COMMENTS PEM wetland abutting at top, open forest both sides.	
	-
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent)
Subsurface flow with isolated pools (Interstitial) COMMENTS_Flowing during survey due to steady rain. Dry channel, no water (Ephemeral)	
	-
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0	
0.5 1.5 2.5 >3	
STREAM GRADIENT ESTIMATE	
Flat (0.5 ft/100 ft) Flat to Moderate Moderate (2 ft/100 ft) Moderate to Severe	UU ft)

QHEI PERFORMED? - Yes	No QHEI Score (If Yes, Attach Completed QHEI Form)
DOM/NETDE AM DECIDALETE	
DOWNSTREAM DESIGNATED WWH Name: Dining Fork of Conotto	·
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF	F MAPS, INCLUDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE LOCAT
USGS Quadrangle Name: Scio	NRCS Soil Map Page: NRCS Soil Map Stream Orde
County: Carroll	Township / City: Loudon/Kilgore
MISCELLANEOUS	
N.	Date of last precipitation: 04/28/14 Quantity: 1.52
Photograph Information: Up, Dn SRG004	4
Elevated Turbidity? (Y/N): _Y	Canopy (% open): 30%
Were samples collected for water chemist	
	pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the	e stream (Y/N) Y If not, please explain:
forested and steeper upstream, wet	tland abutting in ag fields downstream.
	ion impacts:
Agricultural runoff from corn fields and	I cattle pasture.
BIOTIC EVALUATION	
N	
	cord all observations. Voucher collections optional. NOTE: all voucher samples must be labeled
ID number.	. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)
ID number. Fish Observed? (Y/N) N Voucher?	. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N	. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Voucher? (Y/N) N
ID number. Fish Observed? (Y/N) N Voucher?	. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher?
Fish Observed? (Y/N) Frogs or Tadpoles Observed? (Y/N) Comments Regarding Biology:	. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher?
Fish Observed? (Y/N) Frogs or Tadpoles Observed? (Y/N) Comments Regarding Biology:	. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher?
Fish Observed? (Y/N) Frogs or Tadpoles Observed? (Y/N) Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y
Fish Observed? (Y/N) N Voucher? Frogs or Tadpoles Observed? (Y/N) N Comments Regarding Biology: No aquatic creatures observed, potenti	Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y



SITE NAME/LOCATION SRG005	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0	.01
LENGTH OF STREAM REACH (ft) 200 LAT. 40.45764 LONG81.02823 RIVER CODE RIVER MILE	
DATE 04/28/14 SCORER Rod Ginter COMMENTS steep eph rill from WRG003, connects to SRG00	2
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	Points
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat
COBBLE (65-256 mm) [12 pts] 0% CLAY or HARDPAN [0 pt]	Max = 40
GRAVEL (2-64 mm) [9 pts]	9
Ortito (42 min) [o pio]	
Total of Percentages of 0.00% (A) Substrate Percentage Check 100% (B)	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 3	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
	_
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 3	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.0 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	max-00
COMMENTS 0.5 ft OHWM, 1.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.40	5
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	
L R (Per Bank) L R (Most Predominant per Bank) L R	
✓ ✓ Wide >10m ✓ ✓ Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old	
Field Field	
Narrow <5m Residential, Park, New Field Open Pasture, Row Cro	ър
None Fenced Pasture Mining or Construction COMMENTS open forest on both sides and new field pasture and pipeline ROW upslope.	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent)	
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	-
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral) (Check ONLY one box): 2.0 3.0	-
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	-
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral) (Check ONLY one box): 2.0 3.0	-

ADDITIONAL STREAM INFORMATION (This Information Mus	st Also be Completed):		
QHEI PERFORMED? - Yes / No QHEI Score	(If Yes, Atta	ch Completed QHEI Form	1)
DOWNSTREAM DESIGNATED USE(S)			
WWH Name: Dining Fork of Conotton Creek		_ Distance from Evaluate	ed Stream 0.08
CWH Name:		_ Distance from Evaluate	d Stream
EWH Name:		_ Distance from Evaluate	d Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING T	THE <u>ENTIRE</u> WATERSHED	AREA. CLEARLY MARK	THE SITE LOCATION
USGS Quadrangle Name: Scio	NRCS Soil Map P	age: NRCS Soil	Map Stream Order
County: Carroll	Township / City:Loudor	n/Kilgore	
MISCELLANEOUS			
Base Flow Conditions? (Y/N): Date of last precipitation	04/28/14	Quantity: 1.52	
Photograph Information: Up, Dn SRG005			
Elevated Turbidity? (Y/N): Y Canopy (% open):	30%		
Were samples collected for water chemistry? (Y/N): (N	ote lab sample no. or id. a	and attach results) Lab Nu	ımber:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l	pH (S.U.)	Conductivity (µml	hos/cm)
Is the sampling reach representative of the stream (Y/N) Y	If not, please explain:		
drains from wetland seep along edge of gas pipeline RO	W.		
Additional comments/description of pollution impacts:			
Agricultural runoff from former cattle pasture.			
Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N)	·	wary Headwater Habitat As Voucher? (Y/N)	
Comments Regarding Biology:			
No aquatic creatures observed, potential amphibian habitat			
DRAWING AND NARRATIVE DESCRIPT			
FLOW PLOW PLOW PHWH Form Page 100, 2008 Revision	West of the second of the seco	SPESOO2 steep lead	esos pem) Bored
Overhand 2000 Building	new pipe	the KOM	provi
October 24, 2002 Revision			

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SITE NAME/LOCATION SRG006	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0	.01
LENGTH OF STREAM REACH (ft) 200 LAT. 40.45764 LONG81.02823 RIVER CODE RIVER MILE	
DATE 04/28/14 SCORER Rod Ginter COMMENTS steep eph rill from tile, connects to SRG002	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metric Points
BLDR SLABS [16 pts]	Politi
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts] 0%	Substrat Max = 40
COBBLE (65-256 mm) [12 pts] 0% CLAY or HARDPAN [0 pt] 0%	IVIAX = 41
☐ GRAVEL (2-64 mm) [9 pts] ☐ MUCK [0 pts] ☐ 0% ☐ ARTIFICIAL [3 pts] ☐ 0% ☐ ☐ O% ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	9
Title (2 min) [o pio]	
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock (A) Substrate Percentage Check (B)	A+B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 3	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 2	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width Max=30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] ≤ 1.0 m (<=3' 3") [5 pts]	IVIAX=30
COMMENTS 0.5 ft OHWM, 1.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.40	_E
	יוי א
	5
This information must also be completed	5
RIPARIAN ZONE AND FLOODPLAIN QUALITY \$\times \text{NOTE}: \text{River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\$	5
 ·	5
RIPARIAN ZONE AND FLOODPLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣ RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) V Wide >10m Conservation Tillage	5
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R	5
RIPARIAN ZONE AND FLOODPLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣ RIPARIAN WIDTH L R (Per Bank) V Wide >10m Moderate 5-10m RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old LIPAR OR INDUSTRIAL	
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None RIPARIAN ZONE AND FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Pr	ор
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m RIPARIAN ZONE AND FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland With the predominant per Bank) Residential, Park, New Field Open Pasture, Row Creen	ор
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field None COMMENTS open forest on both sides and new field pasture and pipeline ROW upslope. RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R Conservation Tillage Urban or Industrial Open Pasture, Row Cre Residential, Park, New Field Mining or Construction COMMENTS open forest on both sides and new field pasture and pipeline ROW upslope. FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	ор
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m None COMMENTS Open forest on both sides and new field pasture and pipeline ROW upslope. FLOW REGIME (At Time of Evaluation) Stream Flowing Subsurface flow with isolated pools (Interstitial) RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Onservation Tillage Urban or Industrial Open Pasture, Row Credominant per Bank) Fencet Pank Conservation Tillage Urban or Industrial Open Pasture, Row Credominant per Bank) Fencet Pank Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)	ор
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m None COMMENTS Open forest on both sides and new field pasture and pipeline ROW upslope. FLOW REGIME (At Time of Evaluation) RIPARIAN ZONE AND FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (ор
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field None COMMENTS open forest on both sides and new field pasture and pipeline ROW upslope. SINUOSITY (Number of bends per 61 m (200 ft) of channel) RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream And Right (R) as looking downstrea	ор
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m Residential, Park, New Field None COMMENTS open forest on both sides and new field pasture and pipeline ROW upslope. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None Residential, Park, New Field Open Pasture, Row Cr. Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral) COMMENTS Flowing during survey due to steady rain.	ор
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY Residentiant per Bank) Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field Penced Pasture COMMENTS Penced Pasture COMMENTS Penced Pasture Mining or Construction COMMENTS Penced Pasture Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) Oscillation Check ONLY one box): None 1.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3	ор
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m Residential, Park, New Field None COMMENTS open forest on both sides and new field pasture and pipeline ROW upslope. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None Residential, Park, New Field Open Pasture, Row Cr. Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral) COMMENTS Flowing during survey due to steady rain.	op

ADDITIONAL STREAM INFORMATION (This Information M	ust Also be Completed):		
QHEI PERFORMED? - Yes V No QHEI Sco	ore (If Yes, Atta	ach Completed QHEI Form	n)
DOWNSTREAM DESIGNATED USE(S)			
WWH Name: Dining Fork of Conotton Creek		Distance from Evaluate	ed Stream 0.08
CWH Name:		_ Distance from Evaluate	d Stream
EWH Name:		Distance from Evaluate	d Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING	THE ENTIRE WATERSHED	AREA. CLEARLY MARK	THE SITE LOCATION
USGS Quadrangle Name: Scio	NRCS Soil Map F	'age: NRCS Soil	Map Stream Order
County: Carroll	Township / City:Loudo	n/Kilgore	
MISCELLANEOUS			
Base Flow Conditions? (Y/N):_N Date of last precipitation	ion: 04/28/14	Quantity: 1.52	
Photograph Information: Up, Dn SRG006			
Elevated Turbidity? (Y/N): Y Canopy (% open): _	30%		
Were samples collected for water chemistry? (Y/N): _N	(Note lab sample no. or id. a	and attach results) Lab Nu	ımber:
Field Measures: Temp (°C) Dissolved Oxygen (mg	g/l)pH (S.U.)	Conductivity (µml	hos/cm)
Is the sampling reach representative of the stream (Y/N)	If not, please explain:		
drains from tile along edge of gas pipeline ROW.			
Additional comments/description of pollution impacts:			
Agricultural runoff from former cattle pasture.			
BIOTIC EVALUATION			
Performed? (Y/N): (If Yes, Record all observations.	·	· · · · · · · · · · · · · · · · · · ·	
ID number. Include appropriate		N	sessment Manuary
Fish Observed? (Y/N) Voucher? (Y/N) Salama Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N)	anders Observed? (Y/N) Aquatic Macroinvertebra	Voucher? (Y/N) tes Observed? (Y/N)	Voucher? (Y/N)
Comments Regarding Biology:		N	
No aquatic creatures observed, potential amphibian habit	at.		
DRAWING AND NADRATIVE DECOR	DTION OF STREAM F	DEAOU (This most b	
DRAWING AND NARRATIVE DESCRI	PHONOFSIREAM	LEACH (This must b	e completed):
Include important landmarks and other features of int	erest for site evaluation an	d a narrative description	of the stream's location
A N Old bield	nones occurs	CAWRGOOY	01 018
	8Ph 000	No. W.	26003
Not the Contract of the Contra	- South ill	Thus XX	2-3
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pipeline POW	WAL 502 (0)	lect into	
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June 20, 2008 Revision	THINKING FROM	1	new frem
	new pipe	the ROW	pastine
October 24, 2002 Revision	, = , , ,		

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SITE NAME/LOCATION SRG007	
SITE NUMBER_ AEP Kilgore RIVER BASIN 050400010702 DRAINAGE AREA (mi²) 0.	07
LENGTH OF STREAM REACH (ft) 200 LAT. 40.45705 LONG81.02608 RIVER CODE RIVER MILE	
DATE 04/29/14 SCORER Rod Ginter COMMENTS PEM WRG002 abutting, flows south through pas	ture
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metri
BLDR SLABS [16 pts]	Points
BEDROCK [16 pt] O% FINE DETRITUS [3 pts] O%	Substrat
COBBLE (65-256 mm) [12 pts] 10% CLAY or HARDPAN [0 pt] 10%	Max = 4
GRAVEL (2-64 mm) [9 pts]	11
Ortito (42 min) [o pio]	
Total of Percentages of 10.00% (A) Substrate Percentage Check 100% (B)	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 5	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 3
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	15
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 8	
BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width Max=30
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	IVIAX=30
COMMENTS Wider as it flows south past compressor stn AVERAGE BANKFULL WIDTH (meters): 1.40	15
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}}	
RIPARIAN WIDTH FLOODPLAIN QUALITY L_R_ (Per Bank) L_R_ (Most Predominant per Bank) L_R_	
☐ Wide >10m ☐ Mature Forest, Wetland ☐ Conservation Tillage	
✓ Moderate 5-10m Immature Forest, Shrub or Old ✓ Urban or Industrial	
Narrow <5m Residential, Park, New Field Open Pasture, Row Cro	р
None Fenced Pasture Mining or Construction	
COMMENTS PEM wetland abutting, new field/former pasture, gas pipeline, and compressor stn ROW	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	
Stream Flowing Subsurface flow with isolated pools (Interstitial) Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	
COMMENTS Flow above normal during survey due to steady rain.	
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
None 1.0 2.0 3.0 3.0 0.5 1.5 2.5 >3	
STREAM GRADIENT ESTIMATE Flat (0.5 ft/100 ft) Flat to Moderate Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/10	0 ft)
	,

DOWNSTREAM DESIGNATED USE(S)	
WWH Name: Irish Creek, tributary of Conotton Cree	
CWH Name:EWH Name: _	Distance from Evaluated Stream Distance from Evaluated Stream
	ING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
GS Quadrangle Name: Scio	NRCS Soil Map Page: NRCS Soil Map Stream Order
unty: Carroll	Township / City: Loudon/Kilgore
MISCELLANEOUS	
se Flow Conditions? (Y/N):_N Date of last precip	itation: 04/28/14 Quantity: 1.52
otograph Information: Up, Dn SRG007	
evated Turbidity? (Y/N): Y Canopy (% open	95%
ere samples collected for water chemistry? (Y/N): _N	(Note lab sample no. or id. and attach results) Lab Number:
eld Measures: Temp (°C) Dissolved Oxygen	
the sampling reach representative of the stream (Y/N)	If not, please explain:
wetland abutting in old pasture	
ditional comments/description of pollution impacts:	
unoff from new compressor station on left bank, new	erosion control failing in places.
orformed? (V/N): IN (If Voc Booord all absorption	Not be a labeled with the city
sh Observed? (Y/N) N Voucher? (Y/N) N Sala	ons. Voucher collections optional. NOTE: all voucher samples must be labeled with the sit ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)
ID number. Include appropri sh Observed? (Y/N) N Voucher? (Y/N) N Sala	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)
sh Observed? (Y/N) N Voucher? (Y/N) N Salatings or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)
sh Observed? (Y/N) N Voucher? (Y/N) N Salatings or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)
ID number. Include appropriate the Observed? (Y/N) N Voucher? (Y/N) N Salates or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N N Voucher? (Y/N) N N N N N N N N N N N N N N N N N N	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)
ID number. Include appropriate the Observed? (Y/N) N Voucher? (Y/N) N Salar Voucher? (Y/N) N Voucher? (Y/N)	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) Abitat. Spring peepers singing.
ID number. Include appropriate the Observed? (Y/N) N Voucher? (Y/N) N Salar Voucher? (Y/N) N Voucher? (Y/N)	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Voucher? (Y/N) N Vouc
ID number. Include approprish Observed? (Y/N) N Voucher? (Y/N) N Salates of Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N N N N N N N N N N N N N N N N N N	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Voucher? (Y/N) N Vouc
ID number. Include approprish Observed? (Y/N) N Voucher? (Y/N) N Salates of Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N N N N N N N N N N N N N N N N N N	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Voucher? (Y/N) N Vouc
Drawing and other features of	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Voucher? (Y/N) N Vouc
ID number. Include appropriate the Company of the C	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Voucher? (Y/N) N Vouc
ID number. Include appropriate the Company of the C	and field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) Aduatic Macroinvertebrates Observed? (Y/N) Abitat. Spring peepers singing. RIPTION OF STREAM REACH (This must be completed): Interest for site evaluation and a narrative description of the stream's location
ID number. Include appropriate the Company of the C	ate field data sheets from the Primary Headwater Habitat Assessment Manual) amanders Observed? (Y/N) N Voucher? (Y/N) N Vouc



SITE NAME/LOCATION SRG008	, , , , , , , , , , , , , , , , , , ,	
	P Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²	0.02
- ()	AT. 40.45756 LONG81.03557 RIVER CODE RIVER MIL	
DATE 04/30/14 SCORER Rod Ginte	er COMMENTS Eph draining from WKD001 and PRG001 to S	KD003
NOTE: Complete All Items On This Form	- Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Ir	structions
STREAM CHANNEL NONE / NATUMODIFICATIONS:	JRAL CHANNEL	ECOVERY
	y type of substrate present. Check ONLY two predominant substrate TYPE boxe	, HHEI
, ,	nt substrate types found (Max of 8). Final metric score is sum of boxes A & B. RCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	0% SILT [3 pt] 20%	Points
	0%	Substrate
COBBLE (00 200 mm) [12 pto]	0% CLAY or HARDPAN [0 pt] 40%	Max = 40
OTOTOLE (2 OF MINI) [5 Pt6]	10% MUCK [0 pts] 0% 0% ARTIFICIAL [3 pts] 0%	7
Tatala (Parasatanasa ((A)	
Bldr Slabs, Boulder, Cobble, Bedrock	Check 100%	_ A+B
SCORE OF TWO MOST PREDOMINATE SUBST	RATE TYPES: 3 TOTAL NUMBER OF SUBSTRATE TYPES: 4	」
2. Maximum Pool Depth (Measure the ma. evaluation. Avoid plunge pools from road	ximum pool depth within the 61 meter (200 ft) evaluation reach at the time of culverts or storm water pipes) (Check ONLY one box):	Pool Depth Max = 30
> 30 centimeters [20 pts]	> 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
COMMENTS steady rain, flow high		
OOMMENTO	MAXIMOM 1 OOL BEI 111 (centimeters).	<u> </u>
3. BANK FULL WIDTH (Measured as the a	(Check ONLY one box):	Bankfull Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	✓ ≤ 1.0 m (<=3' 3") [5 pts]	Max=30
COMMENTS 1.0 ft OHWM, 2.0 ft. Tol	BW AVERAGE BANKFULL WIDTH (meters): 0.70	5
	, ,	
DIDADIAN ZONE AND EL CODDI	This information <u>must</u> also be completed	
RIPARIAN ZONE AND FLOODPL <u>RIPARIAN WIDTH</u>	AIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ FLOODPLAIN QUALITY	
L R (Per Bank) Wide >10m	L R (Most Predominant per Bank) L R Mature Forest, Wetland Conservation Tillag	2
Moderate 5-10m	Immature Forest, Shrub or Old Urban or Industrial	-
	Field Open Pasture Row	Crop
☐☐ Narrow <5m ☐☐ None	Residential, Park, New Field Fenced Pasture Mining or Construct	ion
	utting at top, through pond and berm, then into PFO/PEM wetland	
FLOW REGIME (At Time of Evalu	uation) (Check ONLY one box):	
Stream Flowing Subsurface flow with isolated pools	Moist Channel, isolated pools, no flow (Intermitist (Interstitial) Dry channel, no water (Ephemeral)	ent)
COMMENTS Flowing during		
SINUOSITY (Number of bends pe	r 61 m (200 ft) of channel) (Check ONLY one box):	
None		
_	1.0 1.5 2.0 3.0 2.5 >3	
0.5		
_) ft/100 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed)	<u> </u>
QHEI PERFORMED? - Yes ✓ No QHEI Score (If Yes, A	attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name: Dining Fork of Conotton Creek	Distance from Evaluated Stream0.10
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSH	ED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Scio NRCS Soil Map	Page: NRCS Soil Map Stream Order
County: Carroll Township / City: Loud	don/Kilgore
MISCELLANEOUS	
Base Flow Conditions? (Y/N):_N _ Date of last precipitation:_ 04/30/14	Quantity: 3.28
Photograph Information: Up, Dn SRG008	
Elevated Turbidity? (Y/N): Y Canopy (% open): 50%	
Were samples collected for water chemistry? (Y/N): _N (Note lab sample no. or ic	d. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.)	Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:_	
PEM wetland upstream, through pond, then into forested wetland.	
Additional comments/description of pollution impacts:	
Agricultural runoff from corn fields to west.	
ID number. Include appropriate field data sheets from the Fish Observed? (Y/N) N Salamanders Observed? (Y/N) Salamanders Observed? (Y/N)	
Tadpoles observed in pond leading into stream, green frog observed, amphibian	habitat.
DRAWING AND NARRATIVE DESCRIPTION OF STREAM	REACH (This <u>must</u> be completed):
Include important landmarks and pitots features by interest for site evaluation and infrar	rative restriction of the stream's location
June 20, 2008 Revision	100 (NT)
OULUDEI 24, 2002 NEVISIOII	Save as pdf Reset Form

Save as pdf



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SITE NAME/LOCATION SRG009	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	0.15
LENGTH OF STREAM REACH (ft) 200 LAT. 40.45750 LONG81.03965 RIVER CODE RIVER MILE	
DATE 05/01/14 SCORER Rod Ginter COMMENTS Eph/Int draining through forested valley, PEM	abutting
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Institute of the Complete All Items On This Form - Refer to This	structions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO REMODIFICATIONS:	ECOVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes	
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE PERCENT	HHEI Metric
□ BLDR SLABS [16 pts] □ 0% SILT [3 pt] 10%	Points
BOULDER (>256 mm) [16 pts] BEDROCK [16 pt] 0% LEAF PACK/WOODY DEBRIS [3 pts] 0% FINE DETRITUS [3 pts] 0% 0%	Substrate
COBBLE (65-256 mm) [12 pts] 30% CLAY or HARDPAN [0 pt] 0%	Max = 40
GRAVEL (2-64 mm) [9 pts] 10% MUCK [0 pts] 0%	21
SAND (<2 mm) [6 pts] ARTIFICIAL [3 pts]	
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock (A) Substrate Percentage Check (B)	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 15 TOTAL NUMBER OF SUBSTRATE TYPES: 6	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check <i>ONLY</i> one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	4 =
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	15
	1
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 8	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankfull Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] (Check ONLY one box): > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Bankfull Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 2.0 ft OHWM, 3.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 2.0 ft OHWM, 3.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ARIPARIAN WIDTH FLOODPLAIN QUALITY	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 2.0 ft OHWM, 3.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH ELOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R	Bankfull Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) ANOTE: River Left	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 2.0 ft OHWM, 3.5 ft. ToBW This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY \$\text{NOTE}: River Left (L) and Right (R) as looking downstream \$\text{A} \text{RIPARIAN WIDTH} \text{L R (Most Predominant per Bank)} \text{L R (Most Predominant per Bank)} L R (Conservation Tillage Moderate 5-10m Mature Forest, Wetland Urban or Industrial Field Conservation Power Posture Power Power Posture Power Power Power Power Power Power Power Pow	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 2.0 ft OHWM, 3.5 ft. ToBW This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R Vide >10 m (<=3' 3") [5 pts] 1.10 This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R Wide >10 m V Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Immature, Row (Open Pasture, Row (Open	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 2.0 ft OHWM, 3.5 ft. ToBW This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY \$\text{NOTE}: River Left (L) and Right (R) as looking downstream \$\text{A} \text{RIPARIAN WIDTH} \text{L R (Most Predominant per Bank)} \text{L R (Most Predominant per Bank)} L R (Conservation Tillage Moderate 5-10m Mature Forest, Wetland Urban or Industrial Field Conservation Power Posture Power Power Posture Power Power Power Power Power Power Power Pow	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 4' 8") [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY Wide >10 m Mature Forest, Wetland Moderate 5-10 m Moderate 5-10 m Mature Forest, Shrub or Old Field Narrow <5m None Residential, Park, New Field Open Pasture, Row of the period	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 2.0 ft OHWM, 3.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY %NOTE: River Left (L) and Right (R) as looking downstream % RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R V V Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Field Narrow <5m Residential, Park, New Field Open Pasture, Row Open Pasture, Row COMMENTS PEM wetland abutting throughout, seeps from sideslopes, pipeline ROW crossing FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	Bankfull Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) A	Bankfull Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) Check ONLY one box):	Bankfull Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7' - 4' 8') [20 pts] COMMENTS 2.0 ft OHWM, 3.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream: RIPARIAN WIDTH FLOODPLAIN QUALITY Wide > 10m	Bankfull Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) Check ONLY one box):	Bankfull Width Max=30 15 Crop on nt)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Dining Fork of Conotton Creek CWH Name: Distance from Evaluated Stream EWH Name: Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Scio NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Carroll Township / City: Perry-Loudon/Kilgore
MISCELLANEOUS
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 04/30/14 Quantity: 3.28
Photograph Information: Up, Dn SRG009
Elevated Turbidity? (Y/N): Y Canopy (% open): 10%
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:
PEM wetland abutting in forest. Drains from tiles in xmas tree farm to north.
Additional comments/description of pollution impacts:
Runoff from xmas tree farm.
BIOTIC EVALUATION
BIOTIC EVALUATION Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site
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)
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site
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) N Voucher? (Y
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) N Voucher? (Y
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) N Voucher? (Y
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) N Voucher? (Y
Performed? (Y/N): N
Performed? (Y/N): N
Performed? (Y/N): N



SITE NAME/LOCATION SRG010	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	.01
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45769 LONG81.04027 RIVER CODE RIVER MILE	
DATE 05/01/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG009	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
✓ COBBLE (65-256 mm) [12 pts] 30% CLAY or HARDPAN [0 pt] 0% GRAVEL (2-64 mm) [9 pts] 0% MUCK [0 pts] 0%	
SAND (<2 mm) [6 pts]	18
Total of Percentages of 30.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 15 TOTAL NUMBER OF SUBSTRATE TYPES: 3	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 3	
	- Doubles
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankful Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS 0.5 ft OHWM, 1.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.50	5
AVERAGE BARRI GEE WIDTH (Inclets).	
This information must also be completed	
also so completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY \$\times \text{NOTE}: \text{River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\$	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m Mature Forest, Wetland Conservation Tillage	
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m RIPARIAN ZONE AND FLOODPLAIN QUALITY L R (Most Predominant per Bank) Moderate 5-10m RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Predominant per Bank) Mature Forest, Wetland Urban or Industrial Field	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣ RIPARIAN WIDTH L R (Per Bank) V Wide >10m Moderate 5-10m RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old LIPAR OR INDUSTRIAL	op
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None RIPARIAN ZONE AND FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Pr	op
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None Residential, Park, New Field None COMMENTS Flowing from hillslope seep to SRG009 in mature forest. NOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and River Left (op
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None RIPARIAN ZONE AND FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Pr	-
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field None COMMENTS Flowing from hillslope seep to SRG009 in mature forest. RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R Conservation Tillage Urban or Industrial Open Pasture, Row Cre Mining or Construction COMMENTS Flowing from hillslope seep to SRG009 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	-
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m None Fenced Pasture COMMENTS Flowing from hillslope seep to SRG009 in mature forest. FLOW REGIME (At Time of Evaluation) Stream Flowing Subsurface flow with isolated pools (Interstitial) RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R Conservation Tillage Urban or Industrial Open Pasture, Row Cre Mining or Construction Mining or Construction Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral)	-
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m Residential, Park, New Field None COMMENTS Flowing from hillslope seep to SRG009 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None Residential, Park, New Field Open Pasture, Row Cr. Mining or Construction Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral) COMMENTS Flowing during survey due to steady rain.	-
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY Most Predominant per Bank) Residentian per Ba	-
RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m Residential, Park, New Field None COMMENTS Flowing from hillslope seep to SRG009 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None Residential, Park, New Field Open Pasture, Row Cr. Mining or Construction Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral) COMMENTS Flowing during survey due to steady rain.	-) [

ADDITIONAL STREAM INFORMATION (This Information Must Also	be Completed):
QHEI PERFORMED? - Yes ✓ No QHEI Score	(If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Dining Fork of Conotton Creek CWH Name: EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE E	NTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Scio	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Carroll Towns	ship / City:Perry/Kilgore
MISCELLANEOUS	
Base Flow Conditions? (Y/N):N Date of last precipitation:	04/30/14 Quantity: 3.28
Photograph Information: Up, Dn SRG010	
Elevated Turbidity? (Y/N): Y Canopy (% open): 10	%
Were samples collected for water chemistry? (Y/N): _N (Note la	b sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (μmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not	, please explain:
Short eph rill from seep to int stream.	
Additional comments/description of pollution impacts:	
None.	
ID number. Include appropriate field dat Fish Observed? (Y/N) N Salamanders O	er collections optional. NOTE: all voucher samples must be labeled with the site a sheets from the Primary Headwater Habitat Assessment Manual) Observed? (Y/N) Voucher? (Y/N) N Voucher? (Y/N) Voucher? (Y/N) N Voucher? (Y/N) Al salamander habitat.
	OF STREAM REACH (This must be completed): r site evaluation and a narrative description of the stream's location



SITE NAME/LOCATION SRG011	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0	.01
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45621 LONG81.03929 RIVER CODE RIVER MILE	
DATE 05/01/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG009	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts] O% LEAF PACK/WOODY DEBRIS [3 pts] 40%	Foints
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts] 0%	Substrat Max = 40
COBBLE (65-256 mm) [12 pts] 10% CLAY or HARDPAN [0 pt] 0% MUCK [0 pts] 0%	Mux = 4
✓ □ GRAVEL (2-64 mm) [9 pts] 30% □ MUCK [0 pts] 0% □ SAND (<2 mm) [6 pts]	16
Total of Percentages of 10 00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 12 TOTAL NUMBER OF SUBSTRATE TYPES: 4	
	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts] > 5 cm - 30 cm [30 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 3	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS 0.5 ft OHWM, 1.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.40	5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆	
RIPARIAN WIDTH FLOODPLAIN QUALITY	
L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m Mature Forest, Wetland Conservation Tillage	
Moderate 5-10m Immature Forest, Shrub or Old Urban or Industrial	
Field — Open Pasture Pow Cro	р
Narrow <5m Residential, Park, New Field Mining or Construction	
COMMENTS Flowing from hillslope seep to SRG009 in mature forest.	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	
Stream Flowing Subsurface flow with isolated pools (Interstitial) Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	
COMMENTS Flowing during survey due to steady rain.	
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
None 2.0 3.0 3.0 0.5 1.5 2.5 3	
STREAM GRADIENT ESTIMATE	
Flat (0.5 ft/100 ft) Flat to Moderate Moderate (2 ft/100 ft) Moderate to Severe	00 ft)

OMETERAD RESIDENTE USE(S) DOWNSTREAM DESIGNATED USE(S)	ADDITIONAL STREAM INFORMATION (This Information Must	Also be Completed):		
Distance from Evaluated Stream 0.23	QHEI PERFORMED? - Yes V No QHEI Score	(If Yes, Attach	Completed QHEI Form)	
Distance from Evaluated Stream 0.23	DOWNSTREAM DESIGNATED USE(S)			
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION USGS Quadrangin Name. Scio NRCS Soil Map Page: NRCS Soil Map Stream Order County: Carroll Township / City: Loudon/Kilgore MISCELLANEOUS Base Flow Conditions? (Y/N): N Date of last precipitation. 04/30/14 Quantity: 3.28 Photograph Information: Up. Dn SR0011 Elevated Turbidity? (Y/N): Canopy (% open): 10%/2 Ware samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number. Field Measures: Temp (°C): Dissalved Oxygen (mapl): DH (S,U.) Conductivity (umhos/cm) is the sampling reach representative of the stream (Y/N). If not, please explain: Short eph rill from seep to int stream. Additional comments/description of polition impacts: None. BIOTIC EVALUATION Performed? (Y/N): N (If Yes. Record all observations, Youcher collections optional. NOTE: all voucher samples must be labeled with the air Dinamber. Include appropriate field data sheets from the Primary Headwater Habitat A seesament Manual) Fish Observed? (Y/N): N Voucher? (Y/N): N (Voucher? (Y/N)) N (Voucher? (Y	, ,		Distance from Evaluated	Stream 0.23
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION USGS Quadrangie Name: Scio NRCS Soil Map Page: NRCS Soil Map Stream Order County: Carroll Township / City: Loudon/Kilgore MISCELLANEOUS Base Flow Conditions? (Y/N): N Date of last precipitation: 04/30/14 Quantity: 3.28 Photograph Information: Upp, Dn SRG011 Elevated Turbidity? (Y/N): Y Canopy (% open): 10% Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (*C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling osch representative of the stream (Y/N)) If not, please explain: Short eph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the air 10 number. Include appropriate held data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N): N Voucher? (Y/N): N Aquatic Macroinvertebrates Observed? (Y/N): N Voucher? (Y/N): N Comments Regarding Biology: Seep with heavy leaf litter and woody debris/rotten logs. Potential salamander habitat. DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):	CWH Name: _		Distance from Evaluated	Stream
USGS Quadrangle Name: Scio NRCS Soil Map Page: NRCS Soil Map Stream Order County: Carroll Township / City: Loudon/Kilgore MISCELLANEOUS Base Flow Conditions? (Y/N): N Date of last precipitation: 04/30/14 Quantity: 3.28 Photograph Information: Up, Dn SRG011 Elevated Turbidity? (Y/N): Y Canopy (% open): 10% Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: 1 the sampling reach representative of the stream (Y/N) If not, please explain: Short oph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performad? (Y/N): N (If Yes, Record all observations. Youcher collections optional. NOTE: all voucher samples must be labeled with the si ID number. Include appropriate field data sheets from the Primary Headwater Haibtat Assessment Manual) Fish Observed? (Y/N): N voucher? (Y/N) N Aqualic Macroinverrebates Observed? (Y/N) N Voucher? (Y/N) N Outher? (Y/N) N Voucher? (Y/N) N Vouche	EWH Name: _		Distance from Evaluated	Stream
County: Carroll Township / City: Loudon/Kilgore MISCELLANEOUS Base Flow Conditions? (Y/N): N Date of last precipitation: 04/30/14 Quantity: 3.28 Photograph Information: Upi, Dn SR6611 Elevated Turbidity? (Y/N): Y Canopy (% open): 10% Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp ("C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain: Short oph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): N (if Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the sit ID number. Include appropriate field data sheets from the Prinary Headwater Habita. Assessment Manual) Fish Observed? (Y/N): N voucher? (Y/N): N (Salamanders Observed? (Y/N)) N (Voucher? (Y/N)) N (Voucher	MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE	E ENTIRE WATERSHED A	REA. CLEARLY MARKT	HE SITE LOCATION
MISCELLANEOUS Base Flow Conditions? (v/N): N Date of last precipitation: 04/30/14 Quantity: 3.28 Photograph Information: Up. pn SR6011 Elevated Turbidity? (v/N): Y Canopy (% open): 10% Were samples collected for water chemistry? (v/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U. Conductivity (µmhos/cm) Is the sampling reach representative of the stream (v/N) If not, please explain: Short aph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (v/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the air ID number: Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (v/N): N Voucher? (v/N) N Salamanders Observed? (v/N) N Voucher? (v/N) N Voucher? (v/N) N Aquatic Miscroinvertebrates Observed? (v/N) N Voucher? (v/N) N Comments Regarding Biology: Beep with heavy leaf litter and woody debris/rotten logs. Potential salamander habitat.	USGS Quadrangle Name: Scio	NRCS Soil Map Pag	ge: NRCS Soil M	lap Stream Order
Base Flow Conditions? (Y/N): N Date of last precipitation: 04/30/14 Quantity: 3.28 Photograph Information: Up, Dn SR6011 Elevated Turbidity? (Y/N): Y Canopy (% open): 10% Were samples collected for water chemistry? (Y/N): N (Note lab sample no, or id, and attach results) Lab Number: Field Measures: Temp (*C) Dissolved Oxygen (ma/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain: Short oph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the si D number: include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N): N voucher? (Y/N) Salamanders Observed? (Y/N) N voucher? (Y/N) N voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N voucher? (Y/N) N Comments Regarding Biology: Seep with heavy leaf litter and woody debris/rotten logs. Potential salamander habitat.	County: Carroll To	wnship / City:Loudon/I	Kilgore	
Photograph Information: Photograph Information: Photograph Inform	MISCELLANEOUS			
Elevated Turbidity? (Y/N): Y Canopy (% open): 10% Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain: Short eph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the si ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Observed? (Y/N) N Voucher? (Y/N) N Observed? (Y/N) N Voucher? (Y/N) N	Base Flow Conditions? (Y/N):_N Date of last precipitation:_	04/30/14	Quantity: 3.28	
Were samples collected for water chemistry? (Y/N): Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (°C) Dissolved Oxygen (mg/l) ph (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) if not, please explain: Short eph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): Note: all voucher samples must be labeled with the site in Dinumber. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N): Note Noucher? (Y	Photograph Information: Up, Dn SRG011			
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain: Short eph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): N (if Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the si ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) N Voucher? (Y/N)	V	10%		
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain: Short eph rill from seep to int stream. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): N (if Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the si ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) N Voucher? (Y/N)	Were samples collected for water chemistry? (Y/N): (Note	e lab sample no. or id. and	d attach results) Lab Num	nber:
Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): None. None. BIOTIC EVALUATION Performed? (Y/N): None. Performed? (Y/N): None. None. BIOTIC EVALUATION None. Performed? (Y/N): None. NoTE: all voucher samples must be labeled with the sit of the samples must be labeled with the sit of t		pH (S.U.)	Conductivity (µmho	os/cm)
Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/N): Volumer	Is the sampling reach representative of the stream (Y/N) If	not, please explain:		
None. BIOTIC EVALUATION Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the since the primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N)	Short eph rill from seep to int stream.			
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the si ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N): N Voucher? (Y/N): N Salamanders Observed? (Y/N): N Voucher? (Y/N): N Vou	Additional comments/description of pollution impacts:			
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the si ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Vouche	None.			
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): Colorer 24.7007 Revision Colorer 24.7007 Revisio	Fish Observed? (Y/N) N Voucher? (Y/N) N Salamander Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Advanced Programment (Y/N) N Voucher? (Y/N) N	data sheets from the Prima s Observed? (Y/N)	ary Headwater Habitat Asse Voucher? (Y/N)	essment Manual)
FLOW Green Gre	Seep with heavy leaf litter and woody debris/rotten logs. Pote	ential salamander habita	it.	
FLOW Cabaly Colone 24, 2007 Revision				
FLOW Corporate A 2007 Revision	DRAWING AND NARRATIVE DESCRIPTION	ON OF STREAM RE	ACH (This must be	completed):
Cottober 24 2002 Revision			· · · · · · · · · · · · · · · · · · ·	
Cottober 24 2002 Revision	N 80% Jest the forest	Howeld I	The state of the s	
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Cover on the latest the same	October 24, 2002 Revision		Save as pdf	Reset Form

Save as pdf



THIEF COOLE (Sum of metrics 1, 2, 3).	
SITE NAME/LOCATION SRG012	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0.01	1
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45644 LONG81.03923 RIVER CODE RIVER MILE	
DATE 05/01/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG009	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instruct	tions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVER MODIFICATIONS:	ERY
SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes	
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TERCENT TERCENT	Metri Point
BLDR SLABS [16 pts]	OIIIL
	Substrat
CLAY or HARDPAN [0 pt] 0% 0%	Max = 4
GRAVEL (2-64 mm) [9 pts] 30% MUCK [0 pts] 0%	4 5
SAND (<2 mm) [6 pts]	15
Total of Percentages of 0.00% (A) Substrate Percentage 100% (B)	A . B
Bldr Slabs, Boulder, Cobble, Bedrock	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 12 TOTAL NUMBER OF SUBSTRATE TYPES: 3	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	ool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Max = 3
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts] < 5 cm [5 pts]	
> 22.5 - 30 cm [30 pts]	5
atoody rain flow higher than normal	
COMMENTS steady rain, flow nigher than normal MAXIMUM POOL DEPTH (centimeters):	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankfu
	Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] ✓ ≤ 1.0 m (<=3' 3") [5 pts]	Max=30
	_
COMMENTS 0.5 ft OHWM, 1.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.50	5
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	
L R (Per Bank) L R (Most Predominant per Bank) L R	
✓ ✓ Wide >10m ✓ ✓ Mature Forest, Wetland Conservation Tillage	
Moderate 5-10m Immature Forest, Shrub or Old Urban or Industrial	
Field State of Industrial Ports New Field Open Pasture, Row Crop	
Residential, Park, New Field	
None Flowing from hillslope seep to SRG009 in mature forest.	
COMMENTO HOWING HOTH HIMSTODE SEED TO SIXOUS IN HISTORIE TOTEST.	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	
Stream Flowing Moist Channel, isolated pools, no flow (Intermittent) Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral)	
COMMENTS Flowing during survey due to steady rain.	
CINITORITY (Number of bonds nor 64 to (200 ft) of channel). (Check CAII Vers have)	
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0	
0.5 1.5 2.5 >3	
STREAM GRADIENT ESTIMATE	
Flat (0.5 ft/100 ft) Flat to Moderate Moderate (2 ft/100 ft) Moderate to Severe Severe (10 ft/100 ft)	t)
<u> </u>	

	_	es No QHEI Sco	re	(If Yes, At	ach Complete	ea QHEI Form)	
	NSTREAM DESIGNATE						0.00
WWH Name:	Dining Fork of Cono				_	from Evaluated Stream from Evaluated Stream	
CWH Name:EWH Name:				rom Evaluated Stream			
		05 MARQ INQUIRING					
	ING: ATTACH COPIES	OF MAPS, INCLUDING					
	gle Name: Scio		N	RCS Soil Map		NRCS Soil Map Stre	am Order
County: Carrol	l		Township	/ City:Loud	on/Kilgore		
MISCE	ELLANEOUS						
Base Flow Cond	litions? (Y/N):_N	Date of last precipitation	ion:0	4/30/14	Quanti	ty: 3.28	
Photograph Info	rmation: Up, Dn SRG0	012					
Elevated Turbidi	ty? (Y/N): Y	Canopy (% open):	10%				
Were samples c	ollected for water chem	nistry? (Y/N):	(Note lab sa	ample no. or id	and attach re	esults) Lab Number:	
Field Measures:		Dissolved Oxygen (mg		pH (S.U.)		nductivity (µmhos/cm)	
	reach representative of		』 If not, ple	ease explain:			
Snort epn r	ill from seep to int stre	eam. 					
Additional comm	nents/description of poll	ution impacts:					
None.	C EVALUATION						
BIOTION Performed? (Y/NFish Observed? Frogs or Tadpole	C EVALUATION N: N (If Yes, F ID numb (Y/N) N Vouchel es Observed? (Y/N) N	Record all observations. er. Include appropriate	Voucher co field data sh anders Obse	ollections option	al. NOTE: all rimary Headwa	voucher samples must b ater Habitat Assessment r? (Y/N)	e labeled with t Manual)
BIOTION Performed? (Y/N Fish Observed? Frogs or Tadpole Comments Rega	C EVALUATION N: N (If Yes, F ID numb (Y/N) N Vouchel es Observed? (Y/N) N	Record all observations. er. Include appropriate r? (Y/N) N Salama Voucher? (Y/N) N	Voucher co field data sh anders Obsa Aquatic I	ollections option neets from the F erved? (Y/N) Macroinvertebr	al. NOTE: all rimary Headwa Vouche ates Observed	voucher samples must b ater Habitat Assessment r? (Y/N)	e labeled with t Manual)
BIOTION Performed? (Y/N Fish Observed? Frogs or Tadpole Comments Rega	C EVALUATION N (If Yes, F ID numb (Y/N) N Voucher os Observed? (Y/N) N arding Biology:	Record all observations. er. Include appropriate r? (Y/N) N Salama Voucher? (Y/N) N	Voucher co field data sh anders Obsa Aquatic I	ollections option neets from the F erved? (Y/N) Macroinvertebr	al. NOTE: all rimary Headwa Vouche ates Observed	voucher samples must b ater Habitat Assessment r? (Y/N)	e labeled with t Manual)
BIOTION Performed? (Y/N Fish Observed? Frogs or Tadpole Comments Rega	C EVALUATION N (If Yes, F ID numb (Y/N) N Voucher os Observed? (Y/N) N arding Biology:	Record all observations. er. Include appropriate r? (Y/N) N Salama Voucher? (Y/N) N	Voucher co field data sh anders Obsa Aquatic I	ollections option neets from the F erved? (Y/N) Macroinvertebr	al. NOTE: all rimary Headwa Vouche ates Observed	voucher samples must b ater Habitat Assessment r? (Y/N)	e labeled with t Manual)
Performed? (Y/N Fish Observed? Frogs or Tadpole Comments Rega Seep with heav	C EVALUATION N (If Yes, F ID numb (Y/N) N Voucher os Observed? (Y/N) N arding Biology:	Record all observations. er. Include appropriate r? (Y/N) N Salama Voucher? (Y/N) N y debris/rotten logs.	Voucher confield data shanders Observation I Potential s	ollections option leets from the F erved? (Y/N) Macroinvertebr alamander ha	al. NOTE: all rimary Headway Vouche ates Observed bitat.	voucher samples must b ater Habitat Assessment r? (Y/N) N Voucher his must be comp	e labeled with t Manual) r? (Y/N) N



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SITE NAME/LOCATION SRG013	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0.	.01
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45842 LONG81.04497 RIVER CODE RIVER MILE	
DATE 05/01/14 SCORER Rod Ginter COMMENTS Eph draining from outside survey area to SRG01	4
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOMMODIFICATIONS:	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts] O% LEAF PACK/WOODY DEBRIS [3 pts] 60%	Politic
BEDROCK [16 pt] O% FINE DETRITUS [3 pts] O%	Substrate Max = 40
COBBLE (65-256 mm) [12 pts] 0% CLAY or HARDPAN [0 pt]	IVIAX = 40
✓ GRAVEL (2-64 mm) [9 pts] 30% MUCK [0 pts] 0% SAND (<2 mm) [6 pts]	15
Total of Percentages of Occide (A) Substrate Percentage (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	ATB
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 4	
COMMENTS MAXIMUM POOL DEPTH (centimeters):	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankful Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS 1.0 ft OHWM, 2.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.60	5
This information <u>must</u> also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	
L R (Per Bank) L R (Most Predominant per Bank) L R	
Wide >10m	
Field Field Urban or industrial	_
Narrow <5m Residential, Park, New Field Open Pasture, Row Cro	þ
None Fenced Pasture Mining or Construction COMMENTS Flowing from hillslope through old forest lane to SRG014/WRG011 in mature forest.	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent)	
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	
Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing during survey due to steady rain. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral) (Check ONLY one box): 2.0 3.0	

	et Also be Completed):	
QHEI PERFORMED? - Yes ✓ No QHEI Score	(If Yes, Attach Completed QHEI Form)	
DOWNSTREAM DESIGNATED USE(S)		
WWH Name: Dining Fork of Conotton Creek	Distance from Evaluated Stream	0.48
EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream	
	THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOC	
ISGS Quadrangle Name: Scio	NRCS Soil Map Page: NRCS Soil Map Stream C	order
ounty: Carroll	Township / City:Perry/Kilgore	
MISCELLANEOUS		
ase Flow Conditions? (Y/N):_N Date of last precipitation:	04/30/14 Quantity: 3.28	
hotograph Information: Up, Dn SRG013		
levated Turbidity? (Y/N): Y Canopy (% open):	10%	
, , ,	<u></u>	
Vere samples collected for water chemistry? (Y/N): _ N (No	ote lab sample no. or id. and attach results) Lab Number:	
eld Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (μmhos/cm)	
the sampling reach representative of the stream (Y/N)	If not, please explain:	
Short eph rill from seep to int stream.		
dditional comments/description of pollution impacts:		
lone.		
Performed? (Y/N): N (If Yes, Record all observations. Vo	oucher collections optional. NOTE: all voucher samples must be labe	
ish Observed? (Y/N) N Voucher? (Y/N) N Salamand	eld data sheets from the Primary Headwater Habitat Assessment Manuders Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)	nal)
ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N	eld data sheets from the Primary Headwater Habitat Assessment Manuders Observed? (Y/N) N Voucher? (Y/N) N	nal)
ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N omments Regarding Biology:	old data sheets from the Primary Headwater Habitat Assessment Manuders Observed? (Y/N) N Voucher? (Y/N) N Vo	nal)
ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N omments Regarding Biology:	old data sheets from the Primary Headwater Habitat Assessment Manuders Observed? (Y/N) N Voucher? (Y/N) N Vo	nal)
ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N omments Regarding Biology: Rutted channel with heavy leaf litter and woody debris/rotter	en logs. Potential salamander habitat.	N) N
ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N omments Regarding Biology: Rutted channel with heavy leaf litter and woody debris/rotter	old data sheets from the Primary Headwater Habitat Assessment Manuders Observed? (Y/N) N Voucher? (Y/N) N Vo	N) N
ID number. Include appropriate field voucher? (Y/N) N Salamand frogs or Tadpoles Observed? (Y/N) N Voucher?	en logs. Potential salamander habitat.	M) N) N d):
ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher?	ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	M) N) N d):
ID number. Include appropriate field voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	M) N) N d):
ID number. Include appropriate field ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Omments Regarding Biology: Rutted channel with heavy leaf litter and woody debris/rotted DRAWING AND NARRATIVE DESCRIPT Include important landmarks and other features of interestinctude important landmarks and other requires or interestinctude important landmarks and other requires or interestinctude important landmarks and other requires or interesting in the second of the sec	ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	M) N) N d):
ID number. Include appropriate field ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Vouch	ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	N) N d):
ish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher?	ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	M) N) N d):
ID number. Include appropriate field vish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Vouc	ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	M) N) N d):
ID number. Include appropriate field voucher? (Y/N) N Salamand voucher? (Y/N) N Salamand voucher? (Y/N) N Vo	ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	M) N) N d):
ID number. Include appropriate field vish Observed? (Y/N) N Voucher? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Vouc	ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	N) N d):
ID number. Include appropriate field ish Observed? (Y/N) N Salamand rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Vouch	ders Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) In logs. Potential salamander habitat. FION OF STREAM REACH (This must be complete est for site evaluation and a narrative description of the stream.	M) N) N d):



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SITE NAME/LOCATION SRG014	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	.89
LENGTH OF STREAM REACH (ft) 200 LAT. 40.45769 LONG81.04520 RIVER CODE RIVER MILE	
DATE 05/02/14 SCORER Rod Ginter COMMENTS Per trib to Dining Fork with PFO/EM wetland about	utting
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	ructions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	1 01116
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
COBBLE (65-256 mm) [12 pts]	
GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] MUCK [0 pts] ARTIFICIAL [3 pts] 0%	17
Total of Percentages of 10.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	25
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 28	
 BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): 	
	Bankful Width
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]	
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 11.0 ft OHWM, 15.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 3.60 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking 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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 11.0 ft OHWM, 15.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 3.60 This information must also be completed	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 11.0 ft OHWM, 15.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 3.60 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R V Wide >10m 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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 11.0 ft OHWM, 15.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 3.60 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ↑ RIPARIAN WIDTH L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R	Width Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] ≤ 1.0	Width Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS	Width Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH L R (Per Bank) V Wide >10m Moderate 5-10m Moderate 5-10m Residential, Park, New Field Narrow <5m None Residential, Park, New Field None COMMENTS Flowing from hillslope through old forest lane to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 11.0 ft OHWM, 15.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 3.60 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and River Left (L) and River Left (L) and River Left (L) and River Left	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 11.0 ft OHWM, 15.0 ft. ToBW This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream AND FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) V Wide >10m Moderate 5-10m Moderate 5-10m Residential, Park, New Field Open Pasture, Row Cr None COMMENTS Flowing from hillslope through old forest lane to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent)	Width Max=30
> 4.0 meters (> 13') [30 pts]	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 (> 9' 7" - 4' 8') [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) V Wide >10 m River Left (L) and Right (R) as looking downstream to the conservation Tillage Moderate 5-10m	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 (> 9' 7' - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7' - 13') [25 pts]	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 11.0 ft OHWM, 15.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 3.60 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY	Width Max=30

QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Att	<u>:</u>
CITET EN ONMED: 1 165 TO COIL SCOIL (II 165, Au	ttach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Dining Fork of Conotton Creek CWH Name: EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHE	
GS Quadrangle Name: Scio NRCS Soil Map Carroll Township / City: Perry	Page: NRCS Soil Map Stream Order y/Kilgore
unty: Carroll Township / City: Perry	yraigore
MISCELLANEOUS	2.20
se Flow Conditions? (Y/N):_N Date of last precipitation: 04/30/14	Quantity: 3.28
otograph Information: Up, Dn SRG014	
vated Turbidity? (Y/N): Y Canopy (% open): 10%	
re samples collected for water chemistry? (Y/N): _N _ (Note lab sample no. or id.	d. and attach results) Lab Number:
ld Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.)	Conductivity (µmhos/cm)
he sampling reach representative of the stream (Y/N) Y If not, please explain:	
Perennial stream fed by seeps and with PFO/EM wetland abutting in mature for	rest.
ditional comments/description of pollution impacts:	
ne.	
ID number. Include appropriate field data sheets from the P Voucher? (Y/N) N Salamanders Observed? (Y/N) N Salamanders Observed? (Y/N) N Aquatic Macroinvertebra Mements Regarding Biology:	
nments Regarding Biology: ols, riffle complexes, overhanging banks, root wads, bars and shallows. Good	aquatic habitat.
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACTIVE Impostant landmans and other features of Interest for site evaluation and a national stream of the stre	3-03



SITE NAME/LOCATION SRG015	UMBER AEP Kilgore RIVE	R BASIN 050400010703	DRAINAGE AREA (mi²) 0.02	2
LENGTH OF STREAM REACH (ft)		LONG81.04840 RIVER CODE		
DATE 05/02/14 SCORER _	Rod Ginter COMMENTS	Eph from seep with PEM w	etland abutting in forest	t
NOTE: Complete All Items On	This Form - Refer to "Field	Evaluation Manual for Ohio's P	HWH Streams" for Instruct	tions
STREAM CHANNEL MODIFICATIONS:	NONE / NATURAL CHANNEL 【	RECOVERED RECOVERING	RECENT OR NO RECOV	ERY
		present. Check ONLY two predomina		HHEI
(Max of 32). Add total number	er of significant substrate types fo PERCENT TYP	ound (Max of 8). Final metric score is s		nnc: Metri
BLDR SLABS [16 pts]	0%	SILT [3 pt]	10%	oint
BOULDER (>256 mm) [7	16 pts]	LEAF PACK/WOODY DEBRIS FINE DETRITUS [3 pts]		Substrat
COBBLE (65-256 mm) [CLAY or HARDPAN [0 pt]		Max = 4
GRAVEL (2-64 mm) [9 p		MUCK [0 pts]	0%	14
SAND (<2 mm) [6 pts]	40%	ARTIFICIAL [3 pts]	0%	14
Total of Percentages		Substrate Percentage 100%	(B)	A + B
Bldr Slabs, Boulder, Cobble		TOTAL NUMBER OF SUB	STRATE TYPES: 5	
2. Maximum Pool Depth (Mea	asure the maximum pool depth	within the 61 meter (200 ft) evaluation	on reach at the time of Po	ool Dep
evaluation. Avoid plunge pool > 30 centimeters [20 pts]	ols from road culverts or storm wa	ater pipes) (Check ONLY one box): > 5 cm - 10 cm [15 pts]	N	Max = 30
> 22.5 - 30 cm [30 pts]		< 5 cm [5 pts]		
> 10 - 22.5 cm [25 pts]		NO WATER OR MOIST CHAN	INEL [0 pts]	15
COMMENTS steady rain	n, flow higher than normal	MAXIMUM POOL DEPT	TH (centimeters):	
BANK FULL WIDTH (Meas	ured as the average of 3-4 meas	surements) (Check ONLY or	ne box):	Bankful
> 4.0 meters (> 13') [30 pts]		> 1.0 m - 1.5 m (> 3' 3" - 4' 8")		Width Max=30
> 3.0 m - 4.0 m (> 9' 7" - 13') > 1.5 m - 3.0 m (> 9' 7" - 4' 8"		≤ 1.0 m (<=3' 3") [5 pts]		IVIAX=30
COMMENTS 2.0 ft OHWI	/I, 3.5 ft. ToBW	AVERAGE BANKFULL	WIDTH (meters): 1.20	15
PIRAPIAN ZONE AN		nation <u>must</u> also be completed ☆NOTE: River Left (L) and Right (R) a	as looking downstream√	
RIPARIAN WIDTH	FLOODPLAIN QU		as looking downstream A	
L R (Per Bank) Wide >10m		redominant per Bank) L R	Concernation Tillege	
Moderate 5-10m		Forest, Wetland re Forest, Shrub or Old	Conservation Tillage Urban or Industrial	
inioderate 3-10111	Field		Open Pasture, Row Crop	
☐☐ Narrow <5m	Resider	ntial, Park, New Field	· · · · · · · · · · · · · · · · · · ·	
Nairow Com		Desture III	Mining or Construction	
None	Fenced	Id forest lane to SRG014/WRG01	•	
None COMMENTS Flowing	ng from hillslope through ol	ld forest lane to SRG014/WRG01	•	
None COMMENTS Flowing FLOW REGIME (At Stream Flowing	ng from hillslope through ol Time of Evaluation) (Check ONL	LY one box): Moist Channel, isolated	1 in mature forest. d pools, no flow (Intermittent)	
None COMMENTS Flowi FLOW REGIME (At Stream Flowing Subsurface flow with	ng from hillslope through of Time of Evaluation) (Check ONLisolated pools (Interstitial)	Id forest lane to SRG014/WRG01 Yone box):	1 in mature forest. d pools, no flow (Intermittent) (Ephemeral)	
None COMMENTS Flowi FLOW REGIME (At Stream Flowing Subsurface flow with COMMENTS Flevi	ng from hillslope through of Time of Evaluation) (Check ONL isolated pools (Interstitial) ated flow due to steady rain	LY one box): Moist Channel, isolated Dry channel, no water over previous days. Spring/see	1 in mature forest. d pools, no flow (Intermittent) (Ephemeral)	
None COMMENTS Flowi FLOW REGIME (At Stream Flowing Subsurface flow with COMMENTS Elevi SINUOSITY (Number None	ng from hillslope through of Time of Evaluation) (Check ONL isolated pools (Interstitial) ated flow due to steady rain or of bends per 61 m (200 ft) of ch	LY one box): Moist Channel, isolated Dry channel, no water over previous days. Spring/sectannel) (Check ONLY one box): 2.0	1 in mature forest. d pools, no flow (Intermittent) (Ephemeral) eps at top. 3.0	
None COMMENTS Flowi FLOW REGIME (At Stream Flowing Subsurface flow with COMMENTS Elevi SINUOSITY (Number	ng from hillslope through of Time of Evaluation) (Check ONL isolated pools (Interstitial) ated flow due to steady rain of bends per 61 m (200 ft) of ch	LY one box): Moist Channel, isolated Dry channel, no water over previous days. Spring/see	1 in mature forest. d pools, no flow (Intermittent) (Ephemeral) eps at top.	
None COMMENTS Flowi FLOW REGIME (At Stream Flowing Subsurface flow with COMMENTS Elevi SINUOSITY (Number None 0.5 STREAM GRADIENT ESTIM	r of bends per 61 m (200 ft) of ch	Moist Channel, isolated Dry channel, no water over previous days. Spring/section. (Check ONLY one box): 2.0 2.5	1 in mature forest. d pools, no flow (Intermittent) (Ephemeral) eps at top. 3.0 >3	
None COMMENTS Flowi FLOW REGIME (At Stream Flowing Subsurface flow with COMMENTS Elevi SINUOSITY (Number None 0.5	rof bends per 61 m (200 ft) of ch	Moist Channel, isolated Dry channel, no water over previous days. Spring/section. (Check ONLY one box): 2.0 2.5	1 in mature forest. d pools, no flow (Intermittent) (Ephemeral) eps at top. 3.0)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Complete	ed):
QHEI PERFORMED? - Yes ✓ No QHEI Score (If Yes	s, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name: Dining Fork of Conotton Creek	Distance from Evaluated Stream 0.53
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATER	SHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Scio NRCS Soil N	Map Page: NRCS Soil Map Stream Order
County: Carroll Township / City: Po	erry/Kilgore
MISCELLANEOUS	
Base Flow Conditions? (Y/N):_N _ Date of last precipitation: 04/30/14	Quantity: 3.28
Photograph Information: Up, Dn SRG015	
Elevated Turbidity? (Y/N): Y Canopy (% open): 20%	
Were samples collected for water chemistry? (Y/N): N (Note lab sample no. o	or id. and attach results) Lab Number:
	U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain	n:
Eph stream fed by seeps and with PEM wetland abutting in mature forest w	rith fallow ag field upslope .
Additional comments/description of pollution impacts:	
None.	
ID number. Include appropriate field data sheets from the Voucher? (Y/N) N Salamanders Observed? (Y/N)	
Stream flows under trees roots (underground) through wetland, with rotting lo	gs and debris, potential amphibian habitat.
DRAWING AND NARRATIVE DESCRIPTION OF STREAM R DRAWING AND NARRATIVE DESCRIPTION OF STREAM R Include important family and other features of interest for site evaluation and stream resolution and stream resolution. PHWH Form Page - 2	EAGH (Inis must be completed):
/ W 3/	Save as pdf



	25	
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SITE NAME/LOCATION SRG016	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0	0.01
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45711 LONG81.04525 RIVER CODE RIVER MILE	
DATE 05/02/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG014, PEM abutting	ng.
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	ructions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	1 01116
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
☐ COBBLE (65-256 mm) [12 pts] 0% ☐ CLAY or HARDPAN [0 pt] 0% ☐ GRAVEL (2-64 mm) [9 pts] 20% ☐ MUCK [0 pts] 0%	
SAND (<2 mm) [6 pts]	15
Total of Percentages of 0.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	~.5
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	5
COMMENTS steady rain, flow higher than normal	•
COMMENTS Stoady rain; now inglish than normal MAXIMUM POOL DEPTH (centimeters): 3	
MAXIMON TOOL BET TIT (certainteers).	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] 10 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] 10 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check <i>ONLY</i> one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS O.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONL Y one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) Wide >10 Mature Forest, Wetland Conservation Tillage	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY *NOTE: River Left (L) and Right (R) as looking downstream *RIPARIAN WIDTH L R (Per Bank) V Wide > 10 Moderate 5-10m Moderate 5-10m Whoderate 5-10m Check ONLY one box): > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 0.40 L R (Most Predominant per Bank) L R (Most Predominant per B	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY *NOTE: River Left (L) and Right (R) as looking downstream *RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) Wide >10 Mature Forest, Wetland Moderate 5-10m Moderate 5-10m I This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old I Trban or Industrial	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS O.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) V Wide >10 m Mature Forest, Wetland Moderate 5-10m Mature Forest, Shrub or Old Field Narrow <5m Residential, Park, New Field Mining or Construction	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream And RIPARIAN WIDTH RIPARIAN WIDTH FLOODPLAIN QUALITY Wide >10 M Moderate 5-10m Moderate 5-10m Narrow <5m Residential, Park, New Field Open Pasture, Row Cru None COMMENTS Flowing from hillslope seep to SRG014/WRG011 in mature forest.	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 4' 8") [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.40 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY	Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) A.0 meters (s 13) [30 pts]	Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) A	Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) > 4.0 meters (> 13) [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 4' 8") [20 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS AVERAGE BANKFULL WIDTH (meters): 0.40 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream Note: RIPARIAN WIDTH FLOODPLAIN QUALITY Mature Forest, Wetland Conservation Tillage 0.40 RIPARIAN WIDTH	Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) A	Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) - 4.0 meters (> 13') [30 pts] - 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] - 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS - 4.0 m (> 9' 7" - 4' 8") [20 pts] This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY - NOTE: River Left (L) and Right (R) as looking downstream - Note RIPARIAN WIDTH - FLOODPLAIN QUALITY - Wide >10 m RIPARIAN WIDTH - FLOODPLAIN QUALITY - Mature Forest, Wetland - Conservation Tillage - Immature Forest, Wetland - Narrow <5m - Narrow <5m - Residential, Park, New Field - Narrow <5m - None - Residential, Park, New Field - None - COMMENTS Flowing from hillslope seep to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): - Stream Flowing - Subsurface flow with isolated pools (Intersitial) - COMMENTS Flowing from seep during survey due to steady rain over previous days. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): - SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): - None - None - None - None - None - None - Other None	Width Max=30

	<u>):</u>
QHEI PERFORMED? - Yes No QHEI Score (If Yes, A	Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name: Dining Fork of Conotton Creek	Distance from Evaluated Stream 0.46
EWH Name: _	Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSH	
JSGS Quadrangle Name: Scio NRCS Soil Ma	
County: Carroll Township / City: Peri	ry/Kilgore
MISCELLANEOUS	
Base Flow Conditions? (Y/N):_N Date of last precipitation:04/30/14	Quantity: 3.28
Photograph Information: Up, Dn SRG016	
Elevated Turbidity? (Y/N): Y Canopy (% open): 10%	
N	d. and attach results) Lab Number:
	Conductivity (µmhos/cm)
v	* " /
s the sampling reach representative of the stream (Y/N) If not, please explain:_	
Short eph rill from seep to per stream, skunk cabbage wetland abutting.	
Additional comments/description of pollution impacts:	
None.	
ID number. Include appropriate field data sheets from the Fish Observed? (Y/N) N Salamanders Observed? (Y/N) Salamanders Observed? (Y/N)	N Voucher? (Y/N) N
-rogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Aquatic Macroinverter	prates Observed? (Y/N) Voucher? (Y/N)
Comments Regarding Biology:	orates Observed? (Y/N) N Voucher? (Y/N)
Comments Regarding Biology:	orates Observed? (Y/N) N Voucher? (Y/N)
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	rander habitat. CH (This must be completed):
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam	rander habitat. CH (This must be completed):
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	rander habitat. CH (This must be completed):
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	rander habitat. CH (This must be completed):
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	rander habitat. CH (This must be completed):
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	rander habitat. CH (This must be completed):
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	rander habitat. CH (This must be completed):
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	ander habitat. CH (This must be completed): parrative descriptor the stream's location
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	ander habitat. CH (This must be completed): parrative descriptor the stream's location
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	rander habitat. CH (This must be completed):
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REAM The language important landmarks and other features of interest for site evaluation and an	ander habitat. CH (This must be completed): parrative descriptor the stream's location
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REA	ander habitat. CH (This must be completed): parrative descriptor the stream's location
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REAL The de important landman's and other features of interest for site evaluation and an other process. Physical Research Physics (Prince of Interest for site evaluation and an other features) of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation.	ander habitat. CH (This must be completed): parrative descriptor the stream's location
Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salam DRAWING AND NARRATIVE DESCRIPTION OF STREAM REAL The leaf important landman's and other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest for site evaluation and an other features of interest features features of interest features of interest features feature	ander habitat. CH (This must be completed): narrative descriptes the stream's location Section 1.1.



SITE NAME/LOCATION SRG017	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	0.01
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45737 LONG81.04541 RIVER CODE RIVER MILE	
DATE 05/02/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG014, PEM abutting	ng.
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	ructions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	COVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TYPE PERCENT TYPE PERCENT	Metric Points
BLDR SLABS [16 pts]	1 01111
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
☐ COBBLE (65-256 mm) [12 pts] ☐ CLAY or HARDPAN [0 pt] 0% ☐ GRAVEL (2-64 mm) [9 pts] ☐ MUCK [0 pts] 0%	
GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] MUCK [0 pts] ARTIFICIAL [3 pts] 0%	16
Total of Percentages of 10.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	2
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 4	
III Valide in Col 22. Tri (continuoso).	
	<u> </u>
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankful Width
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]	
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ★NOTE: River Left (L) and Right (R) as looking 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 (> 9' 7" - 4' 8") [20 pts] COMMENTS O.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed	Width Max=30
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> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS O.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) V Wide >10m Moderate 5-10m Moderate 5-10m Noderate 5-10m Ithan or Industrial	Width Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS O.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH L R (Per Bank) Vide >10 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 1.0 m (<=3' 3") [5 pts] > 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 0.60 COMMENTS RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH FLOODPLAIN QUALITY Mature Forest, Wetland Moderate 5-10m Residential, Park, New Field Open Pasture, Row Cr None Residential, Park, New Field Mining or Construction COMMENTS Flowing from hillslope seep to SRG014/WRG011 in mature forest.	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS O.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ↑ RIPARIAN WIDTH L R (Per Bank) V Wide >10m Moderate 5-10m Moderate 5-10m Residential, Park, New Field None COMMENTS Flowing from hillslope seep to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. TOBW AVERAGE BANKFULL WIDTH (meters): 0.60 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream Note: RIPARIAN WIDTH R	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS O.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY Wide >10 m (Most Predominant per Bank) Wide >10 m Moderate 5-10m Narrow <5m Narrow <5m None COMMENTS Flowing from hillslope seep to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing from seep during survey due to steady rain over previous days.	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. TOBW AVERAGE BANKFULL WIDTH (meters): 0.60 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream Note: RIPARIAN WIDTH R	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left	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 (> 9' 7" - 4' 8") [20 pts] COMMENTS O.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): O.60 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE (Per Bank) V Wide > 10 m Nature Forest, Wetland Moderate 5-10m Narrow <5m Narrow <5m None Residential, Park, New Field None COMMENTS Flowing from hillslope seep to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing from seep during survey due to steady rain over previous days. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	Width Max=30

DOWNSTREAM DESIGNATED USE(S)		-	
WWH Name: Dining Fork of Conotton Creek		Distance from Evaluated Stream	0.47
CWH Name:EWH Name:		Distance from Evaluated Stream	
		_	
MAPPING: ATTACH COPIES OF MAPS,	CLUDING THE <u>entire</u> watershed a	REA. CLEARLY MARK THE SITE I	OCATION
JSGS Quadrangle Name: Scio	NRCS Soil Map Pag	e: NRCS Soil Map Strear	n Order
County: Carroll	Township / City:Perry/Kilo	gore	
MISCELLANEOUS			
Base Flow Conditions? (Y/N):_N Date of las	precipitation: 04/30/14	Quantity: 3.28	
Photograph Information: Up, Dn SRG017		,	
v	onen). 10%		
Elevated Turbidity? (Y/N): Canopy	open).		
Vere samples collected for water chemistry? (Y/N)	(Note lab sample no. or id. and	d attach results) Lab Number:	
Field Measures: Temp (°C) Dissolved	xygen (mg/l)pH (S.U.)	Conductivity (µmhos/cm)	
s the sampling reach representative of the stream	//N) Y If not, please explain:		
Short eph rill from seep to per stream, skun	cabbage wetland abutting.		
Additional comments/description of pollution impac			
, –	ervations. Voucher collections optional. No	NOTE: all voucher samples must be l	abeled with the
Performed? (Y/N): N (If Yes, Record all of ID number. Include: Fish Observed? (Y/N) N Voucher? (Y/N) N	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N)	NOTE: all voucher samples must be l ary Headwater Habitat Assessment M Voucher? (Y/N)	abeled with the anual)
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID number? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N)	NOTE: all voucher samples must be l ary Headwater Habitat Assessment M Voucher? (Y/N)	abeled with the anual)
Performed? (Y/N): N (If Yes, Record all of ID number. Include: Fish Observed? (Y/N) N Voucher? (Y/N) N	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates	NOTE: all voucher samples must be I ary Headwater Habitat Assessment M Voucher? (Y/N) S Observed? (Y/N)	abeled with the anual)
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID number. Include Voucher? (Y/N) N Voucher? (Y/N) N Voucher Comments Regarding Biology:	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates	NOTE: all voucher samples must be I ary Headwater Habitat Assessment M Voucher? (Y/N) S Observed? (Y/N)	abeled with the anual)
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Performed? (Y/N): N (If Yes, Record all of ID number. Include: ID number. ID number. Include: ID number. ID number. ID number. ID number. ID number. ID number. ID num	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual)
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID numbe	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual)
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Performed? (Y/N): N (If Yes, Record all of ID number. Include ID numbe	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual)
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID numbe	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual)
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID numbe	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual)
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID numbe	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual) (Y/N) N
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID numbe	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual) (Y/N) N
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID numbe	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual)
Performed? (Y/N): N (If Yes, Record all of ID number. Include ID numbe	ervations. Voucher collections optional. No propriate field data sheets from the Prima Salamanders Observed? (Y/N) No Aquatic Macroinvertebrates oris/rotten logs. Potential salamander CRIPTION OF STREAM REACH (T	NOTE: all voucher samples must be lary Headwater Habitat Assessment M Voucher? (Y/N) Observed? (Y/N) r habitat. This must be completed):	abeled with the anual) (Y/N) N



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SITE NAME/LOCATION SRG018	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	0.01
LENGTH OF STREAM REACH (ft) 150 LAT. 40.45745 LONG81.04570 RIVER CODE RIVER MILE	
DATE 05/02/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG014, PEM abutting	ng.
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	ructions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	COVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	ı HHEI
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
COBBLE (65-256 mm) [12 pts]	
☐ ☐ GRAVEL (2-64 mm) [9 pts] ☐ ☐ MUCK [0 pts] ☐ ☐ ARTIFICIAL [3 pts] ☐ ☐ 0% ☐ ☐ OW	23
Total of Percentages of 30.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	=
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	15
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 6	
COMMENTS WAXIMUM POUL DEPTH (Centimeters): 0	
WAXING II TOOL BET TH (CONTINUED).	David 6 d
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankful Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ✓ ≤ 1.0 m (<=3' 3") [5 pts]	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check <i>ONL</i> Y one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] 1.5 ft ○ UNITAL 0.5 ft T. DW	Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.80	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ★	Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): O.80 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream NOTE RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) V Wide >10mature Forest, Wetland Conservation Tillage	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY *NOTE: River Left (L) and Right (R) as looking downstream *RIPARIAN WIDTH RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) V Wide >10m Moderate 5-10m Moderate 5-10m Wind information must also be completed Conservation Tillage Immature Forest, Wetland Urban or Industrial	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and River Riv	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH RIPARIAN WIDTH FLOODPLAIN QUALITY A (Most Predominant per Bank) Wide >10 m Mature Forest, Wetland Moderate 5-10m Narrow <5m Residential, Park, New Field Open Pasture, Row Completed Residential, Park, New Field Mining or Construction	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.80 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and River	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A RIPARIAN WIDTH RIPARIAN WIDTH FLOODPLAIN QUALITY A (Most Predominant per Bank) Wide >10 m Mature Forest, Wetland Moderate 5-10m Narrow <5m Residential, Park, New Field Open Pasture, Row Completed Residential, Park, New Field Mining or Construction	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 4' 8") [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.5 ft OHWM, 2.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): AVERAGE BANKFULL WIDTH (meters): 0.80 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY	Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) 3. BANK FULL WIDTH (Measured as the average of 3-4 measurements)	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) > 4.0 meters (> 13) [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] > 3.0 m - 4.0 m (> 9' 7' - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QU	Width Max=30
BANK FULL WIDTH (Measured as the average of 3-4 measurements) > 4.0 meters (> 13) [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 4' 8') [20 pts] > 1.5 m - 3.0 m (> 9' 7' - 4' 8') [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m None Residential, Park, New Field None COMMENTS Flowing from hillslope seep to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS Flowing from seep during survey due to steady rain over previous days. SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	Width Max=30
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) > 4.0 meters (> 13) [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] > 3.0 m - 4.0 m (> 9' 7' - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY #*NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QU	Width Max=30 5

	IATION (This Information Must Also be Completed):
QHEI PERFORMED?	- Yes ✓ No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESI	,
WWH Name: Dining Fork o	
CWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream
	OPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name: Scio	
Connell	D 1/21
County: _Carroll	Township / City: Perry/Kilgore
MISCELLANEOUS Base Flow Conditions? (Y/N):_N	Date of last precipitation: 04/30/14 Quantity: 3.28
	Date of last precipitation.
Photograph Information: Up, Di	100
Elevated Turbidity? (Y/N):	Canopy (% open): 10%
Were samples collected for wate	r chemistry? (Y/N): Note lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C)	Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representa	tive of the stream (Y/N) Y If not, please explain:
	boulders to per stream, skunk cabbage wetland abutting.
Additional comments/description	of pollution impacts:
None.	
Fish Observed? (Y/N) N V Frogs or Tadpoles Observed? (Y Comments Regarding Biology:	f Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the common number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Youcher? (Y/N) N Voucher? (Y/N) Voucher? (Y/N)
	NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):
	NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed): d-other features of Interest for site evaluation and anarrative description of the stream's location



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

24	

SITE NAME/LOCATION SRG019	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0	.01
LENGTH OF STREAM REACH (ft) 50 LAT. 40.45793 LONG81.04544 RIVER CODE RIVER MILE	
DATE 05/02/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG014, PEM abutting	ıg.
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metric Points
BLDR SLABS [16 pts]	
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
☐ COBBLE (65-256 mm) [12 pts] 0% ☐ CLAY or HARDPAN [0 pt] 0% ☐ GRAVEL (2-64 mm) [9 pts] 20% ☐ MUCK [0 pts] 0%	
SAND (<2 mm) [6 pts]	14
Total of Percentages of 0.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	l
> 22.5 - 30 cm [30 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 3	
	Bankful
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	i wiatii
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
	Max=30
COMMENTS 0.5 ft OHWM, 1.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.40 This information must also be completed	Max=30
AVERAGE BANKFULL WIDTH (meters): O.40 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream to the completed to the complete of the complet	Max=30
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) AVERAGE BANKFULL WIDTH (meters): 0.40 This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R	Max=30
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) Wide >10m AVERAGE BANKFULL WIDTH (meters): 0.40 This information must also be completed RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Most Predominant per Bank) Wide >10m AVERAGE BANKFULL WIDTH (meters): 0.40 Conservation Tillage	Max=30
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m AVERAGE BANKFULL WIDTH (meters): 0.40 L R (Most Predominant per Bank) L R (Most Predominant per Bank) I Mature Forest, Wetland Wide >10m Wide Sight (R) as looking downstream And Conservation Tillage Immature Forest, Wetland Urban or Industrial	Max=30
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Vide >10m Moderate 5-10m Narrow <5m AVERAGE BANKFULL WIDTH (meters): 0.40 Conservation Tillage (moterate) Urban or Industrial (meters): 0.40 AVERAGE BANKFULL WIDTH (me	Max=30 5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Vide >10m Moderate 5-10m Narrow <5m None AVERAGE BANKFULL WIDTH (meters): 0.40 AND Right (R) as looking downstream And Conservation Tillage (most present all present	Max=30 5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY &NOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R (Der Bank) Rome Residential, Park, New Field Depen Pasture, Row Credit None Residential, Park, New Field Mining or Construction COMMENTS Flowing from white pine hillslope seep to SRG014/WRG011 in mature forest.	Max=30 5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH L R (Per Bank) Vide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m None Residential, Park, New Field None COMMENTS Flowing from white pine hillslope seep to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing AVERAGE BANKFULL WIDTH (meters): 0.40 AVERAGE BANKFULL WIDTH (meters): 1.40 AVERAGE BANKFULL WIDTH (meters): 2.40 AVERAGE BANKFULL WIDTH (meters): 2.40 AVERAGE BANKFULL WIDTH (meters): 3.40 AVERAGE BANKFULL WIDTH (meters): 4.40 AVERA	5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m	5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY PLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream And the rest (Most Predominant per Bank) RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Moderate 5-10m Residential, Park, New Field None COMMENTS Flowing from white pine hillslope seep to SRG014/WRG011 in mature forest. FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) AVERAGE BANKFULL WIDTH (meters): 0.40 AND Completed RIPARIAN WIDTH FLOODPLAIN QUALITY AND Conservation Tillage Immature Forest, Shrub or Old Immature Forest,	5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R (5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY **NOTE: River Left (L) and Right (R) as looking downstream ** RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10 Moderate 5-10m Immature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Urban or Industrial Narrow <5m Residential, Park, New Field Open Pasture, Row Crown	5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R (Max=30 5

	ISTREAM DESIGNATED L	ISE(S)			
	Dining Fork of Conotton	. ,		Distance from Evaluated	d Stream 0.48
CWH Name:				Distance from Evaluated	
EWH Name:				Distance from Evaluated	Stream
MAPPI	ING: ATTACH COPIES OF I	MAPS, INCLUDING THE	ENTIRE WATERSHED	AREA. CLEARLY MARK T	THE SITE LOCATION
JSGS Quadrang	le Name. Scio		NRCS Soil Map F	Page: NRCS Soil M	Map Stream Order
			D//	Kilgore	nap otream oraci
County: Carroll			wnship / City: Perry/I		
	LLANEOUS	-			_
Base Flow Condi	tions? (Y/N):_N Dat	te of last precipitation:_	04/30/14	Quantity: 3.28	
Photograph Infor	mation: Up, Dn SRG017				
Elevated Turbidit	v? (Y/N):	anopy (% open):	0%		
	ollected for water chemistry		lah sample no orid	and attach results) Lab Num	nher.
Field Measures:	Temp (°C) Diss	solved Oxygen (mg/l)	pH (S.U.)	Conductivity (µmho	
s the sampling re	each representative of the	stream (Y/N)	not, please explain:		
Short eph ri	II from seep to per stream	n, skunk cabbage wetla	and abutting.		
Additional comm	ents/description of pollution	n impacts:			
None.		· ·			
	,		•	. NOTE: all voucher sample:	
BIOTIC Performed? (Y/N Fish Observed? (): _N (If Yes, Reco ID number. I (Y/N) N Voucher? (Yes Observed? (Y/N) N	Include appropriate field of N Salamanders	data sheets from the Pri	mary Headwater Habitat Assovater Voucher? (Y/N)	
BIOTIC Performed? (Y/N Fish Observed? (Frogs or Tadpole Comments Rega): _N (If Yes, Reco ID number. I (Y/N) N Voucher? (Yes Observed? (Y/N) N	Include appropriate field of (//N) N Salamanders //oucher? (Y/N) N Aq	data sheets from the Pri s Observed? (Y/N) N quatic Macroinvertebrat	Voucher? (Y/N) N les Observed? (Y/N) N	essment Manual)
BIOTIC Performed? (Y/N Fish Observed? (Frogs or Tadpole Comments Rega Seep source wi	(Y/N) N (If Yes, Reco ID number. I Y/N) N Voucher? (Y so Observed? (Y/N) N V rding Biology:	Include appropriate field of N Salamanders (Y/N) N Aque Aque Appropriate field of N Salamanders (Y/N) N Aque Aque Appropriate field of N Salamanders (Y/N) N Aque Aque Appropriate field of N Salamanders (Y/N) N Aque Aque Appropriate field of N Salamanders (Y/N) N Aque Aque Appropriate field of N Salamanders (Y/N) N Aque Aque Appropriate field of N Salamanders (Y/N) N Aque Aque Aque Appropriate field of N Salamanders (Y/N) N Aque Aque Aque Aque Aque Aque Aque Aque	data sheets from the Pri s Observed? (Y/N) quatic Macroinvertebrat s. Potential salaman	Voucher? (Y/N) N des Observed? (Y/N) N der habitat.	essment Manual) Voucher? (Y/N)
BIOTIC Performed? (Y/N Fish Observed? (Frogs or Tadpole Comments Rega Seep source wi): _N (If Yes, Reconfloor ID number. If You on the Young Province of the Young Province	Include appropriate field of (//N) N Salamanders //Oucher? (Y/N) N Aquite foody debris/rotten logs	s Observed? (Y/N) N quatic Macroinvertebrat s. Potential salaman	Voucher? (Y/N) N les Observed? (Y/N) N	Voucher? (Y/N)
Performed? (Y/N Fish Observed? (Frogs or Tadpole Comments Rega Seep source wi): _N (If Yes, Reconfloor ID number. If You on the Young Province of the Young Province	Include appropriate field of (//N) N Salamanders //Oucher? (Y/N) N Aquite foody debris/rotten logs	s Observed? (Y/N) N quatic Macroinvertebrat s. Potential salaman	Voucher? (Y/N) N les Observed? (Y/N) N der habitat.	Voucher? (Y/N)
Performed? (Y/N Fish Observed? (Frogs or Tadpole Comments Rega Seep source wi): _N (If Yes, Reconfloor ID number. If You on the Young Province of the Young Province	Include appropriate field of (//N) N Salamanders //Oucher? (Y/N) N Aquite foody debris/rotten logs	s Observed? (Y/N) N quatic Macroinvertebrat s. Potential salaman	Voucher? (Y/N) N les Observed? (Y/N) N der habitat.	Voucher? (Y/N)



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

SITE NAME/LOCATION SRG020 SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0	.01
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45692 LONG81.04475 RIVER CODE RIVER MILE	
DATE 05/02/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG014, PEM abutting	ıg.
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	Points
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
COBBLE (65-256 mm) [12 pts]	Wax = 40
GRAVEL (2-64 mm) [9 pts]	18
Total of Percentages of 20 00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	5
COMMENTS steady rain, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 3	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
	Wax-50
COMMENTS 1.0 ft OHWM, 1.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.50	5
COMMENTS 1.0 ft OHWM, 1.5 ft. ToBW AVERAGE BANKFULL WIDTH (meters): 0.50 This information must also be completed	
AVERAGE BANKFULL WIDTH (meters): 0.50 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream to the complete description of the complete descript	
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) AVERAGE BANKFULL WIDTH (meters): 0.50 This information must also be completed **NOTE: River Left (L) and Right (R) as looking downstream** RIPARIAN WIDTH L R (Most Predominant per Bank) L R	
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY LR (Per Bank) LR (Most Predominant per Bank) LR (Most Predominant per Bank) Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Immature Forest Shrub or Ol	
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH L R (Per Bank) V Wide >10m Moderate 5-10m AVERAGE BANKFULL WIDTH (meters): 0.50 L R (Most Predominant per Bank) L R (Most Predominant per Bank) I Mature Forest, Wetland Wrban or Industrial	5
This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH L R (Per Bank) V Wide >10m Moderate 5-10m AVERAGE BANKFULL WIDTH (meters): 0.50 L R (Most Predominant per Bank) L R (Most Predominant per Bank) I Moderate 5-10m Moderate 5-10m L R (Most Predominant per Bank)	5
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This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Residential, Park, New Field Narrow <5m None Residential, Park, New Field None COMMENTS Flowing from hillslope seep to SRG014/WRG011 in mature forest. AVERAGE BANKFULL WIDTH (meters): 0.50 AVERAGE BANKFULL WIDTH (meters): AVERAGE BANKFULL WIDTH (meters)	5
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Quadrangle Name: Scio Carroll Town	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream NTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION NRCS Soil Map Page: NRCS Soil Map Stream Order
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE E Quadrangle Name: Scio Carroll Town	Distance from Evaluated Stream NTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE E Quadrangle Name: Scio Carroll Town	NTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
Quadrangle Name: Scio Carroll Town	
Carroll Town	NRCS Soil Map Page: NRCS Soil Map Stream Order
TOWI	
	ship / City:Perry/Kilgore
MISCELLANEOUS	
Flow Conditions? (Y/N): N _ Date of last precipitation:	04/30/14 Quantity: 3.28
	Quantity.
graph Information: Up, Dn SRG020	
ed Turbidity? (Y/N): Y Canopy (% open): 10	<u></u>
camples collected for water chemistry? (Y/N): Note la	ab sample no. or id. and attach results) Lab Number:
leasures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (µmhos/cm)
sampling reach representative of the stream (Y/N)	t, please explain:
ort eph rill from seep to per stream, skunk cabbage wetlan	
nal comments/description of pollution impacts:	
bserved? (Y/N) N Voucher? (Y/N) N Salamanders (or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Aqua	ta sheets from the Primary Headwater Habitat Assessment Manual) Observed? (Y/N) Voucher? (Y/N) N Voucher? (Y/N) Voucher? (Y/N) N
ents Regarding Biology:	Determined a planning day is chitest
source with heavy leaf litter and woody debris/rotten logs.	Potential salamander nabitat.
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ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

SITE NAME/LOCATION SRG021	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²)	0.01
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45728 LONG81.04487 RIVER CODE RIVER MILE	
DATE 05/02/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG014	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	ructions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	1 01116
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
✓ COBBLE (65-256 mm) [12 pts] 20% CLAY or HARDPAN [0 pt] 0% GRAVEL (2-64 mm) [9 pts] 10% MUCK [0 pts] 0%	
SAND (<2 mm) [6 pts]	18
Total of Percentages of 20.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	^+5
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	5
COMMENTS steady rain previously, flow higher than normal MAXIMUM POOL DEPTH (centimeters): 2	•
MAXIMOM TOOL BET TH (continueters).	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] 1.0 m (-=3' 3") [5 pts]	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
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3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts]	Width Max=30
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BANK FULL WIDTH (Measured as the average of 3-4 measurements) - 4.0 meters (> 13) [30 pts] - 3.0 m - 4.0 m (> 9' 7' - 13) [25 pts] - 3.0 m - 4.0 m (> 9' 7' - 4' 8") [20 pts] - 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS - 1.0 ft OHWM, 2.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters):	Width Max=30

QHEI PERFORMED? - Yes ✓ No QHEI Score	
DOWNSTREAM DESIGNATED USE(S) WWH Name: Dining Fork of Conotton Creek	Distance from Evaluated Stream 0.47
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE EN	ITIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name: Scio	NRCS Soil Map Page: NRCS Soil Map Stream Order
0 "	D
Towns	hip / City: Perry/Kilgore
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Date of last precipitation:	04/30/14 Quantity: 3.28
Photograph Information: Up, Dn SRG021	
Elevated Turbidity? (Y/N): Y Canopy (% open): 10%	6
Nere samples collected for water chemistry? (Y/N): (Note lab	sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (µmhos/cm)
v · · ·	please explain:
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Short eph rill from seep to per stream, skunk cabbage wetland	i abutting.
Additional comments/description of pollution impacts:	
None.	
BIOTIC EVALUATION Performed? (Y/N): _N (If Yes, Record all observations. Voucher	r collections optional. NOTE: all voucher samples must be labeled with th
Performed? (Y/N): _N	r collections optional. NOTE: all voucher samples must be labeled with the sheets from the Primary Headwater Habitat Assessment Manual) bbserved? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N
Performed? (Y/N): _N	a sheets from the Primary Headwater Habitat Assessment Manual) bserved? (Y/N) N Voucher? (Y
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ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

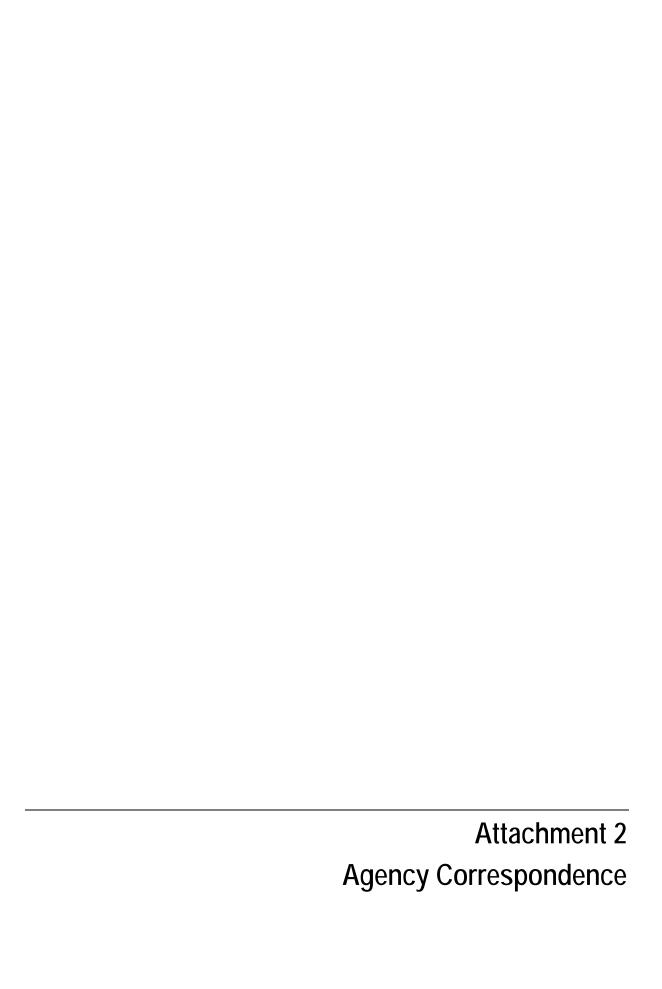
SITE NAME/LOCATION SRG022	
SITE NUMBER AEP Kilgore RIVER BASIN 050400010703 DRAINAGE AREA (mi²) 0	.01
LENGTH OF STREAM REACH (ft) 100 LAT. 40.45825 LONG81.04478 RIVER CODE RIVER MILE	
DATE 05/02/14 SCORER Rod Ginter COMMENTS Eph draining from seep to SRG014, PEM abutting	ng.
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	1 01116
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts]	Substrat Max = 40
✓ COBBLE (65-256 mm) [12 pts] 20% CLAY or HARDPAN [0 pt] 0% GRAVEL (2-64 mm) [9 pts] 10% MUCK [0 pts] 0%	
SAND (<2 mm) [6 pts]	18
Total of Percentages of 20.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	^+5
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	5
standy rain provingely flow higher than normal	
MAXIMON TOOL DET TIT (certaineters).	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.0 m (<=3' 3") [5 pts]	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
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3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.0 ft OHWM, 2.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: River Left (L) and Right (R) as looking downstream And RIPARIAN WIDTH L R (Per Bank) V Wide > 10 m Moderate 5-10 m Moderate 5-10 m I mmature Forest, Wetland I Conservation Tillage I mmature Forest, Shrub or Old I Urban or Industrial	Width Max=30
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3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 4' 8") [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS 1.0 ft OHWM, 2.0 ft. ToBW AVERAGE BANKFULL WIDTH (meters): This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY	Width Max=30
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BANK FULL WIDTH (Measured as the average of 3-4 measurements) Check ONLY one box): 3.0 meters (> 13') [30 pts]	Width Max=30
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OMNSTREAM DESIGNATED USE(S) OWNH Name: Distance from Evaluated Stream D48 CVH Name: Distance from Evaluated Stream D48 MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION USGS Quadrangle Name: Side NRCS Soil Map Page NRCS Soil Map Page NRCS Soil Map Page NRCS Soil Map Stream Order D50 MISCELLANEOUS Base Flow Conditions? (V/N): N Date of last precipitation: 04/30/14 Quantity: 3.28 Photograph Information: Up. Dis SR0922 Elevated Turbidity? (V/N): V Canopy (% open): 10% Were samples collected for water chemistry? (V/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (*C) Dissolved Oxygen (myl): If not, please explain; Short eph rill from seep to per stream, skunk cabbage wetland abutting. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (V/N): N (If Yes, Record all observations: Voucher collections apticeal. NOTE: all voucher samples must be labeled with the site ID number. (V/N): N (IP yes, Record all observations: Voucher collections apticeal. NOTE: all voucher samples must be labeled with the site ID number. (V/N): N (IP yes, Record all observations: Voucher collections apticeal. NOTE: all voucher samples must be labeled with the site ID number. (V/N): N (IP yes, Record all observations: Voucher collections apticeal. NOTE: all voucher samples must be labeled with the site ID number. (V/N): N (IP yes, Record all observations: Voucher collections apticeal. NOTE: all voucher samples must be labeled with the site ID number. (V/N): N (IP yes, Record all observations: Voucher collections apticeal. NOTE: all voucher samples must be labeled with the site ID number. (V/N): N (IP yes, Record all observations: Voucher collections apticeal. NOTE: all voucher samples must be labeled with the site ID number. (V/N): N (IP yes, Record all observations: Voucher collections apticeal. NOTE: all voucher samples must be labeled with the site ID number. (V/N): N (IP yes, Record all observations: Vou		so be Completed):
Distance from Evaluated Stream	QHEI PERFORMED? - Yes V No QHEI Score	(If Yes, Attach Completed QHEI Form)
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION USGS Quadrangle Name. Scio NRCS Soil Map Page: NRCS Soil Map Stream Order County: Carroll Township / City: Perry/Kilgore MISCELLANEOUS Base Flow Conditions? (Y/N): N Date of last precipitation: 04/30/14 Quantity: 3.28 Photograph Information: UP, Dn SRG022 Elevated Turbidity? (Y/N): Y Canopy (% open): 10% Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (jumhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain: Short eph rill from seep to per stream, skunk cabbage wetland abutting. Additional comments/description of pollution impacts: None. BIOTIC EVALUATION Performed? (Y/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) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Voucher	WWH Name: Dining Fork of Conotton Creek CWH Name:	Distance from Evaluated Stream
USGS Quadrangle Name: Scio NRCS Soil Map Page: NRCS Soil Map Stream Order County: Carroll Township / City: Perry/Kilgore MISCELLANEOUS Base Flow Conditions? (Y/N): N Date of last precipitation: 04/30/14 Quantity: 3.28 Photograph Information: Up, Dn SRG022 Elevated Turbidity? (Y/N): Y Canopy (% open): 10% Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (°C) Dissolved Oxygen (mgn) pH (S.U.) Conductivity (jumhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain: Short eph rill from seep to per stream, skunk cabbage wetland abutting. Additional comments/description of pollution impacts: None. 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) N voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N voucher? (Y/N) N Comments Regarding Biology: Seep source with heavy leaf litter and woody debris/rotten logs. Potential salamander habitat.		
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include important landmarks and other treatures of interest for site evaluation and a narrative description of the stream's location		Potential salamander habitat.
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		. Potential salamander habitat.
	Seep source with heavy leaf litter and woody debris/rotten logs. DRAWING AND NARRATIVE DESCRIPTION	N OF STREAM REACH (This <u>must</u> be completed):

CH2MHILL

WATERBODY DATA SHEET	
FEATURE ID:	PRG001
ASSOCIATED FEATURES:	WKD001 (PEM), SRG008 (eph)
CLIENT/PROJECT NAME:	AEP Kilgore – Polo road 138kV Extension
SURVEY TYPE:	Wetlands-Waterbodies, 1000 ft. x 1.3 mile corridor
INVESTIGATORS:	Rod Ginter, Chris Wulff
STATE/COUNTY:	OH/Carroll
APPROXIMATE MP:	NA
SURVEY DATE:	4/30/2014
MAPPED NWI FEATURE:	PEM1C
WATERBODY CHARACTERISTICS	
WATERBODY TYPE:	Pond
AVG. DEPTH (FT):	2-3 ft
AVG. WIDTH AT CENTERLINE (FT):	NA
APPROXIMATE SIZE (AC):	0.04
WATER APPEARANCE:	Turbid, murky due to recent rain
PRIMARY SUBSTRATE (IF	Silt
OBSERVED):	
POTENTIAL HABITAT FOR:	Amphibians, tadpoles observed during survey
SURROUNDING LAND USE:	Fallow agricultural field to west, pipeline meter station to
	northeast, forested riparian and wetland to east along stream
	SKD003, old field to south.
WETLAND FRINGE (IF PRESENT):	0-3 ft. wide fringe of Jun eff and Pha aru.
COMMENTS	

Wetland WKD001 to west drains into pond via eroded rill as ephemeral stream SRG008, which exits through an eroded rill in a man-made berm to the east into WRG009 to SKD003 to Dining Fork of Conotton Creek. Secondary pool to south of main pool, containing many small tadpoles.





Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER DIRECTOR

Ohio Division of Wildlife Scott Zody, Chief 2045 Morse Rd., Bldg. G Columbus, OH 43229-6693

April 29, 2014

Lindsey Hesch CH2M Hill Engineers 10123 Alliance Road, Suite 300 Cincinnati, OH 45242

Dear Ms. Hesch

After reviewing the Natural Heritage Database, I find the Division of Wildlife has no records of rare or endangered species in the Kilgore - Polo Road Project area, including a one mile buffer, in London and Perry Townships, Carroll County, Ohio. We are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, parks or forests or other protected natural areas within a one mile radius of the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although we inventory all types of plant communities, we only maintain records on the highest quality areas.

This letter only represents a review of rare species and natural features data within the Ohio Natural Heritage Database. It does not fulfill coordination under the National Environmental Policy Act (NEPA) or the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S. C. 661 et seq.) and does not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Please contact me at 614-265-6452 if I can be of further assistance.

Sincerely,

Greg Schneider, Administrator

Ohio Natural Heritage Database Program

Greg Schneiden

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Summary: Letter of Notification for the Kilgore-Polo Road 138 kV Transmission Line Project (Part 4 of 4) electronically filed by Mr. Yazen Alami on behalf of AEP Ohio Transmission Company