Stream 53 **Modified Class 2** 



SITE NUMBER 11 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft) LAT. LONG. RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Renner COMMENTS Intermittent Stream	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Ins	tructions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO REMODIFICATIONS:	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]	Points
BEDROCK [16 pt]	Substrate
COBBLE (65-256 mm) [12 pts]	Max = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]  O%  ARTIFICIAL [3 pts]  O%	14
Total of Percentages of 0.00% (A)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 12 TOTAL NUMBER OF SUBSTRATE TYPES: 2	
2. Maximum Pool Depth ( <i>Measure the maximum pool depth within the 61 meter (200 ft)</i> evaluation reach at the time of	Pool Depth
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]	IVIAX = 30
> 22.5 - 30 cm [30 pts]	15
COMMENTS MAXIMUM POOL DEPTH (Inches): 3.00	
(	<del></del>
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONL Y one box):  > 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankfull Width
<pre></pre>	Max=30
COMMENTSAVERAGE BANKFULL WIDTH (Feet): 2.00	5
This information <u>must</u> also be completed	
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	
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  L R (Per Bank)  Wide >10m  Moderate 5-10m  L R (Most Predominant per Bank)  Immature Forest, Wetland  Urban or Industrial	
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 Urban or Industrial  Field Conservation Pow Conservation Pow Conservation Field	Grop
RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  Open Pasture, Row Company Control Contr	•
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 Urban or Industrial  Field Conservation Pow Conservation Pow Conservation Field	•
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Moderate 5-10m  None  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  L R (Der Bank)  L R (Most Predominant per Bank)  L R (Most Predominant per Bank)  L R (Der Bank)  L R (Most Predominant per Bank)  L R (Der Bank)  L R (Most Predominant per Bank)  L R (Der	•
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH FLOODPLAIN QUALITY  L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field None COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing  NOTE: River Left (L) and Right (R) as looking downstream ☆ NOTE: River Left (L) and Right (R) as looking downstream ☆ NOTE: River Left (L) and Right (R) as looking downstream ☆ NOTE: River Left (L) and Right (R) as looking downstream ☆ NOTE: River Left (L) and Right (R) as looking downstream ☆ NOTE: River Left (L) and Right (R) as looking downstream ☆ NOTE: River Left (L) and Right (R) as looking downstream ☆ NOTE: River Left (L) and Right (R) as looking downstream ☆ NOTE: River Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An Indicate Left (L) and Right (R) as looking downstream ☆ Note: An I	n
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	n
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation)  COMMENTS  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)  COMMENTS  PLOW REGIME (At Time 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):	n
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  NOTE: River Left (L) and Right (R) as looking downstream And Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Right (R) as looking downstream And River Left (L) and Rive	n
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  Open Pasture, Row Conservation Tillage  None  Residential, Park, New Field  Open Pasture, Row Conservation  Flow Regime (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):  None  1.0  2.0  3.0  3.0  2.5  3.0  3.0  3.0  3.0  3.0  3.0  3.0  3	n
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel)  None  COMMENTS  NOTE: River Left (L) and Right (R) as looking downstream And Right (R) as looking downstream And River Forest, Shrub or Old  Residential Prediction  Conservation Tillage  Inmature Forest, Shrub or Old  Industrial  Open Pasture, Row Open Pastur	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: Distance from Evaluated Stream
CWH Name: Distance from Evaluated Stream
EWH Name: Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Township / City:
MISCELLANEOUS
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 05/01/17 _ Quantity: 0.00
Photograph Information:
Elevated Turbidity? (Y/N): N Canopy (% open): 100%
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:
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 site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)  Fish Observed? (Y/N) N Voucher? (Y
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This $\underline{must}$ be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location PEM Wetland Width=2.0 '
FLOW -
Width=2.0'
Pool=3" Width=2.0'

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Stream 54 **Modified Class 1** 



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SITE NUMBER 10 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft) LAT. LONG. RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Renner COMMENTS Ephemeral Stream	•
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 REC MODIFICATIONS:	OVERY
1. 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	Metric
BLDR SLABS [16 pts] 0% SILT [3 pt] 80%	Points
BOULDER (>256 mm) [16 pts]	Substrate
COBBLE (65-256 mm) [12 pts]	Max = 40
☐       GRAVEL (2-64 mm) [9 pts]       20%       ☐       MUCK [0 pts]       0%         ☐       SAND (<2 mm) [6 pts]	14
Total of Percentages of 0.00% (A) 100%	A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 12 TOTAL NUMBER OF SUBSTRATE TYPES: 2	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Depth
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
	5
COMMENTS MAXIMUM POOL DEPTH (Inches): 2.00	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankfull
	Width
> 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]	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]	Max=30
→ 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]     ✓ ≤ 1.0 m (<=3' 3") [5 pts]	
> 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
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]  COMMENTS	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]  COMMENTS  AVERAGE BANKFULL WIDTH (Feet): 1.00  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
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  L R (Per Bank)  L R (Most Predominant per Bank)  Mature Forest, Wetland  I D Mature Forest, Wetland  I D Mature Forest, Wetland  I D Mature Forest, Shrub or Old  I D Mature Forest, Shrub or Old	Max=30
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  CPET Bank)  L R (Per Bank)  Wide >10m  Moderate 5-10m  Moderate 5-10m  AVERAGE BANKFULL WIDTH  (Feet):  1.00  AVERAGE BANKFULL WIDTH  (Feet):  1.00  AVERAGE BANKFULL WIDTH  (Feet):  L R (Most Predominant per Bank)  Mature Forest, Wetland  Conservation Tillage  Immature Forest, Shrub or Old  Field  Urban or Industrial	Max=30
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  CPET Bank)  L R (Most Predominant per Bank)  L R (Most Predominant per Bank)  Wide >10m  Moderate 5-10m  Moderate 5-10m  AVERAGE BANKFULL WIDTH  (Feet):  1.00  AVERAGE BANKFULL WIDTH  (Feet):  1.00  L R (Most Predominant per Bank)  Moderate 5-10m  Moderate 5-10m  Moderate 5-10m	Max=30
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  None Riparian Pow Cree  Moderate 5-10m  AVERAGE BANKFULL WIDTH  FLOODPLAIN QUALITY  AVERAGE BANKFULL WIDTH  FLOODPLAIN QUALITY  AVERAGE BANKFULL WIDTH  FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream A  RIPARIAN WIDTH  L R (Most Predominant per Bank)  Mature Forest, Wetland  Mature Forest, Wetland  Moderate 5-10m  Conservation Tillage  Immature Forest, Shrub or Old  Field  Conservation Pow Cree  Conservati	Max=30
Solution	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  Moderate 5-10m  None  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Stream Flowing  Stream Flowing  Stream Flowing  AVERAGE BANKFULL WIDTH  (Feet):  1.00  AVERAGE BA	<b>Max=30 5</b>
None	<b>Max=30 5 o</b> p
3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	<b>Max=30 5</b>
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  None  COMMENTS   FLOW REGIME (At Time of Evaluation)  Subsurface flow with isolated pools (Interstitial)  COMMENTS   AVERAGE BANKFULL WIDTH  FLOODPLAIN QUALITY  NOTE: River Left (L) and Right (R) as looking downstream A Riparial River Forest, Wetland  Conservation Tillage  Immature Forest, Wetland  Open Pasture, Row Cro  Mining or Construction  Moist Channel, isolated pools, no flow (Intermittent)  Dry channel, no water (Ephemeral)  COMMENTS	<b>Max=30 5</b>
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   1.0   1.00   2.0   3.0   1.0 m (<=3' 3") [5 pts]	<b>5</b>

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: Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Township / City:
MISCELLANEOUS  Base Flow Conditions? (Y/N): N Date of last precipitation: 05/01/17 Quantity: 0.00
Photograph Information:  N Capony (% open): 55%
Elevated Turbidity? (Y/N): Canopy (% open): 55%  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:
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 site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)  Fish Observed? (Y/N) N Voucher? (Y
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location $Pool = 2$
FLOW -

Uniform Width = 1.0'

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Stream 55 **Modified Class 2** 



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SITE NAME/LOCATION Sunnyside-Carrol	lton	<u> </u>		
SITE NUMBER 8	RIVER BASII	N	DRAINAGE AREA (mi²	)
	LAT. LONG.		CODERIVER MIL	E
DATE 05/01/17 SCORER P. Renne				
NOTE: Complete All Items On This Form	- Refer to "Field Evalua	ation Manual for Ohi	o's PHWH Streams" for Ir	structions
STREAM CHANNEL NONE / NAT MODIFICATIONS:	URAL CHANNEL	OVERED RECOVE	RING RECENT OR NO F	RECOVERY
SUBSTRATE (Estimate percent of every control of the control o				s   HHEI
(Max of 32). Add total number of significa	int substrate types found (Ma :RCENT TYPE	ax of 8). Final metric sco	PERCENT	Metric
BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts]		ILT [3 pt] EAF PACK/WOODY DE	40% BRIS [3 pts] 5%	Points
BEDROCK [16 pt]		INE DETRITUS [3 pts]	0%	Substrate Max = 40
COBBLE (65-256 mm) [12 pts]	FF0/	LAY or HARDPAN [0 pt	0%	Wax = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]	OCC IVI	IUCK [0 pts] RTIFICIAL [3 pts]	0%	15
Total of Percentages of 0	.00% (A)	100%	(B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock  SCORE OF TWO MOST PREDOMINATE SUBS			SUBSTRATE TYPES: 3	
Maximum Pool Depth (Measure the ma evaluation. Avoid plunge pools from road				Pool Depti
> 30 centimeters [20 pts]	7	> 5 cm - 10 cm [15 pts]	DOX).	IVIAX = 30
> 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		MAXIMUM POOL		7 II - I
			(	<b>-</b>
3. BANK FULL WIDTH (Measured as the > 4.0 meters (> 13') [30 pts]		nts) (Check ON > 1.0 m - 1.5 m (> 3' 3" -	/LY one box): 4' 8") [15 pts]	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		AVERAGE BANK	FULL WIDTH (Feet): 3.50	15
			(1 cct).	
		nust also be completed		
RIPARIAN ZONE AND FLOODP RIPARIAN WIDTH	LAIN QUALITY ジャルロモ FLOODPLAIN QUALITY	±: River Left (L) and Rigr	nt (R) as looking downstream☆	7
L R (Per Bank) Wide >10m	L R (Most Predomin Mature Forest, V		L R Conservation Tillag	0
Moderate 5-10m	Immature Fores		Urban or Industrial	C
	—— Field	de Navy Staled	Open Pasture, Row	Crop
✓	Residential, Par	· .	☐☐ Mining or Construct	ion
COMMENTS	renced Fasture		- Willing of Construct	
FLOW REGIME (At Time of Eval	uation) (Check ONLY one b	pox):		
Stream Flowing Subsurface flow with isolated pool	s (Interstitial)		olated pools, no flow (Intermiti water (Ephemeral)	tent)
COMMENTS_	· · · · · · · · · · · · · · · · · · ·		. ,	
SINUOSITY (Number of bends p				
None 0.5	1.0 1.5	2.0 2.5	3.0	
STREAM GRADIENT ESTIMATE	_			
Flat (0.5 ft/100 ft)	Moderate (2 ft/100 ft)	Moderate to Se	vere Severe (1	0 ft/100 ft)

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: Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Township / City:
MISCELLANEOUS
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 05/01/17 _ Quantity: 0.00
Photograph Information:
Elevated Turbidity? (Y/N): N Canopy (% open): 100%
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:
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 site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)  Fish Observed? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N)
Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Voucher? (Y/N) N
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location
PEM Wetland
FLOW Width=3.5'
Width=3.0' Pool=3" Width=4.0'

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Stream 56 **Modified Class 1** 



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SITE NAME/LOCATION Sunnyside-Carro	ollton	
SITE NUMBER_	RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft)	LAT. LONG. RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Renn	ner COMMENTS Ephemeral Stream	
NOTE: Complete All Items On This For	m - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NA MODIFICATIONS:	ATURAL CHANNEL PRECOVERED RECOVERING RECENT OR NO REC	OVERY
	very type of substrate present. Check ONLY two predominant substrate TYPE boxes	HHEI
,	cant substrate types found (Max of 8). Final metric score is sum of boxes A & B.  PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts]	0%   SILT [3 pt]   80%	Points
□ □ BOULDER (>256 mm) [16 pts] □ BEDROCK [16 pt]	0% LEAF PACK/WOODY DEBRIS [3 pts] 5% 0% FINE DETRITUS [3 pts] 0%	Substrate
OBBLE (65-256 mm) [12 pts]	0% CLAY or HARDPAN [0 pt] 0%	Max = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]	15% MUCK [0 pts] 0% OW ARTIFICIAL [3 pts]	15
T. ( ) ( )	2 200% (A) (B)	A . B
Bldr Slabs, Boulder, Cobble, Bedrock	100%	A + B
SCORE OF TWO MOST PREDOMINATE SUB		
• •	maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of ad culverts or storm water pipes) (Check ONLY one box):	Pool Dept
> 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]	5
COMMENTS	MAXIMUM POOL DEPTH (Inches): 1.00	
3. BANK FULL WIDTH (Measured as the		Bankfull
> 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]	≤ 1.0 m (<=3' 3") [5 pts]	Max=30
	100	
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]		Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]  COMMENTS	AVERAGE BANKFULL WIDTH (Feet): 1.00  This information <u>must</u> also be completed	Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	AVERAGE BANKFULL WIDTH (Feet): 1.00  This information <u>must</u> also be completed	Max=30
COMMENTS  RIPARIAN ZONE AND FLOOD  RIPARIAN WIDTH  L R (Per Bank)	AVERAGE BANKFULL WIDTH (Feet): 1.00  This information must also be completed  PLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆  FLOODPLAIN QUALITY  L R (Most Predominant per Bank) L R	Max=30
COMMENTS  RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m	This information must also be completed  PLAIN QUALITY  ♣ NOTE: River Left (L) and Right (R) as looking downstream ♣  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  Mature Forest, Wetland  Conservation Tillage	Max=30
COMMENTS  RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This information must also be completed  PLAIN QUALITY  ♣ NOTE: River Left (L) and Right (R) as looking downstream ♣  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  Mature Forest, Wetland  Immature Forest, Shrub or Old  Field  Open Pasture Pow Cree	Max=30
COMMENTS  RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m	This information must also be completed  PLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆  FLOODPLAIN QUALITY  L R (Most Predominant per Bank) L R  Mature Forest, Wetland Conservation Tillage  Immature Forest, Shrub or Old Urban or Industrial  Residential, Park, New Field Open Pasture, Row Cro	Max=30
COMMENTS  RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This information must also be completed  PLAIN QUALITY  ♣ NOTE: River Left (L) and Right (R) as looking downstream ♣  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  Mature Forest, Wetland  Immature Forest, Shrub or Old  Field  Open Pasture Pow Cree	Max=30
COMMENTS  RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS	This information must also be completed  PLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆  FLOODPLAIN QUALITY  L R (Most Predominant per Bank) L R  Mature Forest, Wetland Conservation Tillage  Immature Forest, Shrub or Old Urban or Industrial  Residential, Park, New Field Open Pasture, Row Cro  Fenced Pasture Mining or Construction	Max=30
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS  FLOW REGIME (At Time of Events Stream Flowing	This information must also be completed  PLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣  FLOODPLAIN QUALITY  L R (Most Predominant per Bank) L R  Mature Forest, Wetland Conservation Tillage  Immature Forest, Shrub or Old Urban or Industrial  Residential, Park, New Field Open Pasture, Row Cro  Fenced Pasture Mining or Construction  Paluation) (Check ONLY one box):  Moist Channel, isolated pools, no flow (Intermittent)	<b>5</b>
COMMENTS  RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS  FLOW REGIME (At Time of Eve	This information must also be completed  PLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  Mature Forest, Wetland  Immature Forest, Shrub or Old  Immature Forest, Shrub or Old  Quench Pasture, Row Crown Field  Residential, Park, New Field  Fenced Pasture  Mining or Construction  Paluation) (Check ONLY one box):  Moist Channel, isolated pools, no flow (Intermittent)	<b>5</b>
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS  FLOW REGIME (At Time of Events Stream Flowing Subsurface flow with isolated por COMMENTS	This information must also be completed  PLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣  FLOODPLAIN QUALITY  L R (Most Predominant per Bank) L R  Mature Forest, Wetland Conservation Tillage  Immature Forest, Shrub or Old Urban or Industrial  Residential, Park, New Field Open Pasture, Row Cro  Fenced Pasture Mining or Construction  Paluation) (Check ONLY one box):  Moist Channel, isolated pools, no flow (Intermittent)	<b>5</b>
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS  FLOW REGIME (At Time of Events Stream Flowing Subsurface flow with isolated por COMMENTS  SINUOSITY (Number of bends None	This information must also be completed  PLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆  FLOODPLAIN QUALITY  L R (Most Predominant per Bank) L R  Mature Forest, Wetland Conservation Tillage  Immature Forest, Shrub or Old Urban or Industrial  Residential, Park, New Field Open Pasture, Row Cro  Residential, Park, New Field Mining or Construction  Penced Pasture Mining or Construction  Moist Channel, isolated pools, no flow (Intermittent)  Dry channel, no water (Ephemeral)  per 61 m (200 ft) of channel) (Check ONLY one box):  1.0 2.0 3.0	<b>5</b>
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS  FLOW REGIME (At Time of Events Stream Flowing Subsurface flow with isolated por COMMENTS  SINUOSITY (Number of bends None 0.5	This information must also be completed  PLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  Mature Forest, Wetland  Immature Forest, Wetland  Immature Forest, Shrub or Old  Field  Residential, Park, New Field  Fenced Pasture  Mining or Construction  Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	<b>5</b>
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS  FLOW REGIME (At Time of Events Stream Flowing Subsurface flow with isolated por COMMENTS  SINUOSITY (Number of bends None	This information must also be completed  PLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆  FLOODPLAIN QUALITY  L R (Most Predominant per Bank) L R  Mature Forest, Wetland Conservation Tillage  Immature Forest, Shrub or Old Urban or Industrial  Residential, Park, New Field Open Pasture, Row Cro  Residential, Park, New Field Mining or Construction  Penced Pasture Mining or Construction  Moist Channel, isolated pools, no flow (Intermittent)  Dry channel, no water (Ephemeral)  per 61 m (200 ft) of channel) (Check ONLY one box):  1.0 2.0 3.0	Max=30 5

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach Completed	d QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
	om Evaluated Stream
	om Evaluated Stream
<del>-</del>	om Evaluated Stream _
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLE	ARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil Map Page:	NRCS Soil Map Stream Order
County: Township / City:	
MISCELLANEOUS	
Base Flow Conditions? (Y/N):_N _ Date of last precipitation:05/01/17 _ Quantity	0.00
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 0%	
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. and attach res	ults) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Cond	uctivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:	
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all vo	
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher?	N N
Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed?	
Comments Regarding Biology:	
<u> </u>	
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (Th	is must be completed):
Include important landmarks and other features of interest for site evaluation and a narrative	description of the stream's location
PEM Wetland	
FEM WECTAHO	HH-PJR-050117-8
Uniform Width=1.0'	1111 1010 030117 0
FLOW -	

Pool=1"

Save as pdf



Stream 57 **Modified Class 1** 



18
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SITE NAME/LOCATION Sunnyside-Carrollton	
SITE NUMBER 7 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft) LAT LONG RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Renner COMMENTS Ephemeral Stream	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	ctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOMMODIFICATIONS:	VERY
1. 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	Metric
BLDR SLABS [16 pts]	Points
BEDROCK [16 pt]	Substrate
COBBLE (65-256 mm) [12 pts]	Max = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]  O%  ARTIFICIAL [3 pts]  O%  O%	8
Total of Percentages of 0.00% (A) (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 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 Depth Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Wax = 50
> 22.5 - 30 cm [30 pts]	5
COMMENTS MAXIMUM POOL DEPTH (Inches): 1.00	
	DLG-II
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
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS AVERAGE BANKFULL WIDTH (Feet): 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 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  Narrow <5m  Residential, Park, New Field  Open Pasture, Row Crop	)
None Fenced Pasture Mining or Construction	
COMMENTS	
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)  Moist Channel, isolated pools, no flow (Intermittent)  Dry channel, no water (Ephemeral)	
COMMENTS	
COMMENTSSINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
COMMENTS	

OHEI PERFORMED?	ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed)	<u>:</u>
CWH Name:  CWH Name:  Distance from Evaluated Stream  MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION  USGS Quadrangle Name:  NRCS Soil Map Page:  NRCS Soil Map Stream Order  Township / City:  MISCELLANEOUS  Base Flow Conditions? (Y/N);  N Date of last precipitation:  Elevated Turbidity? (Y/N):  N Canopy (% open):  100%  Were samples collected for water chemistry? (Y/N);  N (Note lab sample no. or id. and attach results) Lab Number:  Field Measures:  Temp ("C)  Dissolved Oxygen (mg/ll)  pH (S.U.)  Conductivity (jumhos/cm)  Is the sampling reach representative of the stream (Y/N)  If not, please explain:  BIOTIC EVALUATION  Performed? (Y/N):  N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site in the Primary Headwater Habital Assessment Manual)  Fish Observed? (Y/N):  Voucher? (Y/N):  N Salamanders Observed? (Y/N):  Aqualic Macroinvertebrales Observed? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Aqualic Macroinvertebrales Observed? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Aqualic Macroinvertebrales Observed? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Aqualic Macroinvertebrales Observed? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Aqualic Macroinvertebrales Observed? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Aqualic Macroinvertebrales Observed? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Voucher? (Y/N):  N Order Province of Interest for site evaluation and a narrative description of the stream's location  Width=0.5'	QHEI PERFORMED? - Yes V No QHEI Score (If Yes, A	Attach Completed QHEI Form)
CWH Name:  EWH Name:  Distance from Evaluated Stream  Distance from Evaluated Stream  Distance from Evaluated Stream  MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION  USGS Quadrangle Name:  NRCS Soil Map Page: NRCS Soil Map Stream Order  Township / City:  MISCELLANEOUS  Base Flow Conditions? (Y/N):  Date of last precipitation:  O5/01/17  Quantity:  O.00  Photograph Information:  Elevated Turbidity? (Y/N):  Canopy (% open):  (Note lab sample no. or id. and attach results) Lab Number:  Field Measures:  Temp ("C)  Dissolved Oxygen (mg/l)  Is the sampling reach representative of the stream (Y/N)  If not, please explain:  BIOTIC EVALUATION  Performed? (Y/N):  N  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be liabeled with the site in 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:  DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):  Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'	DOWNSTREAM DESIGNATED USE(S)	
BEWH Name:  MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION  USGS Quadrangle Name:  NRCS Soil Map Page:  NRCS Soil Map Stream Order  Township / City:  MISCELLANEOUS  Base Flow Conditions? (Y/N);  N  Date of last precipitation:  Disolved Turbidity? (Y/N);  N  Canopy (% open):  100%  Were samples collected for water chemistry? (Y/N);  N  (Note lab sample no. or id. and attach results) Lab Number:  Field Measures: Temp ("C)  Dissolved Oxygen (mg/ll)  Is the sampling reach representative of the stream (Y/N)  If not, please explain:  BIOTIC EVALUATION  Performed? (Y/N);  N  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site in number. Include appropriate field data sheets from the Primary Headwater Habital Assessment Manual)  Fish Observed? (Y/N),  Voucher? (Y/N),  Aquatic Macroinvertebrates Observed? (Y/N),  DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):  Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'		
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION  USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order  County: Township / City:  MISCELLANEOUS  Base Flow Conditions? (Y/N): Date of last precipitation: 05/01/17 Quantity: 0.00  Photograph Information: 100%  Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: 100%  Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: 100 is the sampling reach representative of the stream (Y/N) Find, please explain:  BIOTIC EVALUATION  Performed? (Y/N): N (If Yes, Record all observations, Voucher collections optional, NOTE: all voucher samples must be labeled with the site ib number. Include appropriate field data sheets from the Primary Headwater Habital 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 Comments Regarding Biology:  DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):  Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'		
USGS Quadrangle Name:    NRCS Soil Map Page:   NRCS Soil Map Stream Order		
MISCELLANEOUS  Base Flow Conditions? (Y/N): N Date of last precipitation: 05/01/17 Quantity: 0.00  Photograph Information:  Elevated Turbidity? (Y/N): N Canopy (% open): 100%  Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number:  Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain:  BIOTIC EVALUATION  Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habital Assessment Manual)  Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N		
Base Flow Conditions? (Y/N): N Date of last precipitation: 05/01/17 Quantity: 0.00  Photograph Information: Elevated Turbidity? (Y/N): N Canopy (% open): 100%  Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain:  BIOTIC EVALUATION  Performed? (Y/N): N (If Yes, Record all observations, Voucher collections optional, NOTE: all voucher samples must be labeled with the site 10 number. Include appropriate field data sheets from the Primary Headwater Habital 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 Voucher? (Y/N) N Include Important landmarks and other features of interest for site evaluation and a narrative description of the stream's location Width=0.5'		
Base Flow Conditions? (Y/N): N Date of last precipitation: 05/01/17 Quantity: 0.00  Photograph Information: Elevated Turbidity? (Y/N): N Canopy (% open): 100%  Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain:  BIOTIC EVALUATION  Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site in D 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/		
Photograph Information:  Elevated Turbidity? (Y/N):  N  Canopy (% open):  100%  Were samples collected for water chemistry? (Y/N):  N  (Note lab sample no. or id. and attach results) Lab Number:  Field Measures:  Temp ("C)  Dissolved Oxygen (mg/l)  Is the sampling reach representative of the stream (Y/N)  Is the sampling reach representative of the stream (Y/N)  Additional comments/description of pollution impacts:  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  Voucher? (Y/N):  Aquatic Macroinvertebrates Observed? (Y/N):  N  Voucher? (		
Elevated Turbidity? (Y/N): N Canopy (% open): 100%  Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) Is the sampling reach representative of the stream (Y/N) If not, please explain:  BIOTIC EVALUATION  Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater 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 Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location Width=0.5'	Base Flow Conditions? (Y/N): Date of last precipitation: 05/01/17	Quantity: 0.00
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:  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 Salamanders 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 Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'		
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:  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 Salamanders 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	Elevated Turbidity? (Y/N): N Canopy (% open): 100%	
Additional comments/description of pollution impacts:  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 Salamanders Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N IN Vo	Were samples collected for water chemistry? (Y/N): Note lab sample no. or in	d. and attach results) Lab Number:
Additional comments/description of pollution impacts:  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  Voucher? (Y/N)  Aquatic Macroinvertebrates Observed? (Y/N)  N  Voucher? (Y/N)  N  Voucher? (Y/N)  N  Voucher? (Y/N)  N  Voucher? (Y/N)  N  Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'	Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.)	Conductivity (µmhos/cm)
BIOTIC EVALUATION  Performed? (Y/N): N (if Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)  Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N	Is the sampling reach representative of the stream $(Y/N)$ If not, please explain:	
BIOTIC EVALUATION  Performed? (Y/N): N (if Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)  Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N		
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	Additional comments/description of pollution impacts:	
Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/	Performed? (Y/N): N (If Yes, Record all observations. Voucher collections option ID number. Include appropriate field data sheets from the	Primary Headwater Habitat Assessment Manual)
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):  Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'		Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'	Comments Regarding Biology:	
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'		
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'		<del></del>
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location  Width=0.5'	DRAWING AND NADRATIVE DESCRIPTION OF STREAM	DEACH (This must be completed):
THE 24-12 O. T. I.		· —
THE 24-12 O. T. I.	Width=0.5'	
FLOW Width=0.5'	Wideli 0.3	
FLOW Width=0.5'		
FLOW	510W <b>—</b>	idth=0.5'
Width=0.5' Pool=1"		ı

Save as pdf

Reset Form

Stream 58 **Modified Class 1** 



18
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SITE NUMBER6 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft) LAT. LONG. RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Renner COMMENTS Intermittent Stream	
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	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]	Points
BEDROCK [16 pt]	Substrate
COBBLE (65-256 mm) [12 pts]	Max = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]  O%  ARTIFICIAL [3 pts]  O%  O%	8
Total of Percentages of 0.00% (A) 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 2	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Depth
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
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
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS AVERAGE BANKFULL WIDTH (Feet): 0.50	5
This information must also be completed	
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	
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	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Moderate 5-10m  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  Mature Forest, Wetland  Wide >10m  Urban or Industrial	
RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream   RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Immature Forest, Shrub or Old  Field  Open Pasture Pow Cro	qu
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Moderate 5-10m  RIPARIAN WIDTH  L R (Most Predominant per Bank)  I R (Most Predomin	qu
RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream   RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Immature Forest, Shrub or Old  Field  Open Pasture Pow Cro	qu
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  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  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  L R (Unsternation Tillage Immature Forest, Shrub or Old Immature Forest, Sh	-
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH FLOODPLAIN QUALITY  L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field Open Pasture, Row Cro None COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS  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):	-
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation)  COMMENTS  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  L R (Onservation Tillage  Urban or Industrial  Open Pasture, Row Cro  Mining or Construction  Comments  Moist Channel, isolated pools, no flow (Intermittent)  Dry channel, no water (Ephemeral)  COMMENTS	-

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed)	<u>):</u>
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, A	Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	Div. ( 5 1 1 10
WWH Name: CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream  Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSH	
	p Page: NRCS Soil Map Stream Order
County: Township / City:	
MISCELLANEOUS	
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 05/01/17	Quantity: 0.00
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 90%	
Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or in	d. and attach results) Lab Number:
	Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:	
<u> </u>	
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
Performed? (Y/N): (If Yes, Record all observations. Voucher collections option ID number. Include appropriate field data sheets from the	onal. NOTE: all voucher samples must be labeled with the site Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N)	N Voucher? (Y/N) N
Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) N Aquatic Macroinverteb	brates Observed? (Y/N) N Voucher? (Y/N) N
Comments Regarding Biology:	
DRAWING AND NARRATIVE DESCRIPTION OF STREAM	<del></del>
Include important landmarks and other features of interest for site evaluation	and a narrative description of the stream's location
Width=0.5' Widt	h=0.5'
	Width=0.5'
FLOW TO 1 O	
Pool=2	"



Stream 59 **Modified Class 2** 



SITE NAME/LOCATION Sunnyside-Carrollton	
SITE NUMBER 5 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft) LAT. LONG. RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Renner COMMENTS Intermittent Stream	
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 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	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]  70%  BOULDER (>256 mm) [16 pts]  0%  LEAF PACK/WOODY DEBRIS [3 pts]  5%	Points
BEDROCK [16 pt]  BEDROCK [16 pt]  BEDROCK [16 pt]  BEDROCK [16 pt]	Substrate
COBBLE (65-256 mm) [12 pts]	Max = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]  MUCK [0 pts]  ARTIFICIAL [3 pts]  0%	15
Total of Percentages of 0.00% (A) (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock 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 evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Depth
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Wax = 30
> 22.5 - 30 cm [30 pts]	15
(118.1887).	
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
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS AVERAGE BANKFULL WIDTH (Feet): 2.50	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	
Field —— Open Pasture Pow Cr	ac
Narrow <5m Residential, Park, New Field Company Compan	
None Fenced Pasture Mining or Construction COMMENTS	_
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	
Stream Flowing  Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)	)
COMMENTS  COMMENTS	L
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	
□ 0.5 □ 1.5 □ 2.5 □ >3	
	00 ft)

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: Distance from Evaluated Stream  CWH Name: Distance from Evaluated Stream  EWH Name: Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Township / City:
MISCELLANEOUS
Base Flow Conditions? (Y/N): N Date of last precipitation: 05/01/17 Quantity: 0.00
Photograph Information:
Elevated Turbidity? (Y/N): N Canopy (% open): 80%
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) Y If not, please explain:
Additional comments/description of pollution impacts:
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)
Comments Regarding Biology:
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):  Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location
Width=3.0'
Plunge Pool
FLOW -
Pool=3" Width=1.5'



Stream 60 **Modified Class 1** 



19
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SITE NAME/LOCATION Sunnyside-Carrollton	
SITE NUMBER 4 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft) LAT LONG RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Renner COMMENTS Ephemeral Stream	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	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	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]	Points
BEDROCK [16 pt]  BEDROCK [16 pt]  BEDROCK [16 pt]  BEDROCK [16 pt]	Substrate
COBBLE (65-256 mm) [12 pts]	Max = 40
☐ ☐ GRAVEL (2-64 mm) [9 pts] 5% ☐ ☐ MUCK [0 pts] 0% ☐ ARTIFICIAL [3 pts] 0%	9
Total of Percentages of 0.00% (A) (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock 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 Depth
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 MAXIMUM POOL DEPTH (Inches): 1.00	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankfull
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 Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	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]	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]  COMMENTS  AVERAGE BANKFULL WIDTH (Feet): 1.50	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]	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 ☆  RIPARIAN WIDTH  FLOODPLAIN QUALITY  FLOODPLAIN QUALITY	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  AVERAGE BANKFULL WIDTH (Feet): 1.50  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  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)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Noderate 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" - 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  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Conservation Tillage	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]	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)	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 ☆  RIPARIAN WIDTH  FLOODPLAIN QUALITY  Wide >10m  Mature Forest, Wetland  Wide >10m  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  None water (Ephemeral)	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  NOTE: River Left (L) and Right (R) as looking downstream ↑  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  PLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Noist Channel, isolated pools, no flow (Intermittent)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 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)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  Open Pasture, Row Cr  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  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
> 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  AVERAGE BANKFULL WIDTH  FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  Wide >10 m  Mature Forest, Wetland  Moderate 5-10m  Mature Forest, Wetland  Moderate 5-10m  Residential, Park, New Field  Penced Pasture  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  **N.0. m - 1.5 m (> 3' 3" - 4' 8") [15 pts]  **1.0 m (<=3' 3") [5 pts]  **1.0 m (<=3' 3") [5 pts]  **1.0 m (<=3' 3") [5 pts]  **1.0 m (<=3' 3" - 4' 8") [15 pts]  **1.0 m (<=3' 3") [5 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  **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  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  Open Pasture, Row Cr  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):  None  1.0  1.0  1.0  1.5 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]  > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]  > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]  > 1.0 m (<=3' 3") [5 pts]  1.5 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]  > 1.0 m (<=3' 3") [5 pts]  1.5 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]  > 1.0 m (<=3' 3") [5 pts]     1.5 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]    2 subsurface flowing to push a subsurface flow with isolated pools (Interstitial)  Dry channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):  None  1.0  3.0	Width Max=30

ADDITIONAL STREAM INFORMATION (This Information Must Also be Complete	<u>d):</u>
QHEI PERFORMED? - Yes No QHEI Score (If Yes,	Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)  WWH Name:  CWH Name:  EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERS	SHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil M	ap Page: NRCS Soil Map Stream Order
County: Township / City:	
MISCELLANEOUS  Base Flow Conditions? (Y/N):N Date of last precipitation:05/01/17  Photograph Information:	:
ID number. Include appropriate field data sheets from the Voucher? (Y/N) N Salamanders Observed? (Y/N)	
DRAWING AND NARRATIVE DESCRIPTION OF STREA	M REACH (This <u>must</u> be completed):
Include important landmarks and other features of interest for site evaluation	n and a narrative description of the stream's location
Width=1.5'	
FLOW -	dth=1.5' PEM Wetland Width=1.5

Pool=1"



Stream 61 **Modified Class 1** 



19
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SITE NAME/LOCATION Sunnyside-Car	rrollton	
SITE NUMBER	RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft)	LAT. LONG. RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Rer	nner COMMENTS Ephemeral Stream	
NOTE: Complete All Items On This Fo	orm - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for In	structions
STREAM CHANNEL NONE / N	NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO R	ECOVERY
·	every type of substrate present. Check ONLY two predominant substrate TYPE boxes	
(Max of 32). Add total number of sign	ifficant substrate types found (Max of 8). Final metric score is sum of boxes A & B.  PERCENT TYPE PERCENT	HHEI   Metric
BLDR SLABS [16 pts]	0% SILT [3 pt] 85%	Points
BOULDER (>256 mm) [16 pts]  BEDROCK [16 pt]	0% LEAF PACK/WOODY DEBRIS [3 pts] 10% 0% 0%	Substrat
COBBLE (65-256 mm) [12 pts]	0% CLAY or HARDPAN [0 pt] 0%	Max = 40
GRAVEL (2-64 mm) [9 pts]	5% MUCK [0 pts] 0%	9
SAND (<2 mm) [6 pts]	<b>0%</b> ARTIFICIAL [3 pts] <b>0%</b>	
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock	0.00% (A) 100% (B)	A + B
SCORE OF TWO MOST PREDOMINATE SU		
• •	e maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
<ul><li>evaluation. Avoid plunge pools from r</li><li>&gt; 30 centimeters [20 pts]</li></ul>	road culverts or storm water pipes) (Check ONLY one box):  > 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	MAXIMUM POOL DEPTH (Inches): 1.00	
3 BANK FULL WIDTH (Measured as 1	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	AVERAGE BANKFULL WIDTH (Feet): 1.50	]   <sub>5</sub>
GOMMENTO.	AVERAGE BARK GEE WIDTH (Feet).	
	This information must also be completed	
<b>RIPARIAN ZONE AND FLOO</b> RIPARIAN WIDTH	DPPLAIN QUALITY  ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ 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	
✓	Residential, Park, New Field Open Pasture, Row	Crop
None	Fenced Pasture Mining or Construction	on
COMMENTS		
FLOW REGIME (At Time of E	Evaluation) (Check ONLY one box):	
Stream Flowing	Moist Channel, isolated pools, no flow (Intermitte	ent)
Subsurface flow with isolated p	pools (Interstitial)	
SINI IOSITY (Number of bond	ds_per 61 m (200 ft) of channel) <u>(C</u> heck <i>ONLY</i> one box):	
None None	1.0 2.0 1.3 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)

ADDITIONAL STREAM INFORMATION (This Information Must	Also be Completed):		
QHEI PERFORMED? - Yes V No QHEI Score	(If Yes, Attach Co	ompleted QHEI Form)	
DOWNSTREAM DESIGNATED USE(S)  WWH Name: CWH Name: EWH Name:	Dis	stance from Evaluated S stance from Evaluated St stance from Evaluated St	ream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING TH	IE <u>ENTIRE</u> WATERSHED ARE	A. CLEARLY MARK THE	SITE LOCATION
USGS Quadrangle Name:	NRCS Soil Map Page:	NRCS Soil Map	Stream Order
County: To	ownship / City:		
MISCELLANEOUS  Base Flow Conditions? (Y/N): N Date of last precipitation:	05/01/17	Quantity: 0.00	_
Photograph Information:			
Elevated Turbidity? (Y/N): N Canopy (% open):	55%		
Were samples collected for water chemistry? (Y/N): N (Not	te lab sample no. or id. and at	ttach results) Lab Numbe	er:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.)		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Additional comments/description of pollution impacts:			
Performed? (Y/N):  N  (If Yes, Record all observations. Vo ID number. Include appropriate field Voucher? (Y/N)  Fish Observed? (Y/N)  N  Voucher? (Y/N)  Voucher? (Y/N)  N  A	d data sheets from the Primary	Headwater Habitat Assess oucher? (Y/N)	
Comments Regarding Biology:			
DRAWING AND NARRATIVE DESCRIPTI			
DRAWING AND NARRATIVE DESCRIPTI		<u> </u>	
Width=2.0	ı		
FLOW -	Width=2.0'	Widt	h=0.5'

Pool=1"



Stream 62

**Modified Class 1** 



25	
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SITE NAME/LOCATION Sunnysid	e-Carrollton				
	MBER 2	RIVER BASIN	DI	RAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft)	LAT.	LONG.	RIVER CODE	RIVER MILE	
DATE 05/01/17 SCORER F	P. Renner COM	MMENTS Ephemeral S	Stream		
NOTE: Complete All Items On 1	his Form - Refer to	"Field Evaluation Mar	nual for Ohio's PHW	/H Streams" for Instr	ructions
STREAM CHANNEL NO	ONE / NATURAL CHAN	NNEL RECOVERED	✓ RECOVERING	RECENT OR NO REC	COVERY
SUBSTRATE (Estimate perc     (May of 22) Add total pumpler		_			HHEI
(Max of 32). Add total number <u>TYPE</u>	PERCENT	TYPE	nai metric score is sum	PERCENT	Metric
BLDR SLABS [16 pts] BOULDER (>256 mm) [16		SILT [3 pt]	(/WOODY DEBRIS [3 p	75% 10%	Points
BEDROCK [16 pt]	0%		ITUS [3 pts]	0%	Substrate Max = 40
COBBLE (65-256 mm) [12	4.50/		RDPAN [0 pt]	0%	IMAX = 40
GRAVEL (2-64 mm) [9 pts  SAND (<2 mm) [6 pts]	0%	☐☐ MUCK [0 pts		0%	15
Total of Percentages of	0.00%	(A)	100%	(B)	A + B
Bldr Slabs, Boulder, Cobble, E SCORE OF TWO MOST PREDOMINA	Bedrock	ES: 12 TOTAL	NUMBER OF SUBST	RATE TYPES: 3	^''
					Pool Depth
2. Maximum Pool Depth (Meas evaluation. Avoid plunge pools		storm water pipes) (Che	ck ONLY one box):	each at the time of	Max = 30
> 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts]		> 5 cm - 10 < 5 cm [5 p	cm [15 pts] otsl		
> 10 - 22.5 cm [25 pts]			R OR MOIST CHANNE	L [0 pts]	5
COMMENTS		MAX	IMUM POOL DEPTH	(Inches): 1.00	
3. BANK FULL WIDTH (Measur	ed as the average of	3-4 measurements)	(Check ONLY one I		Bankfull
> 4.0 meters (> 13') [30 pts]	_	> 1.0 m - 1	(Check ONLY one I	pox):	Width
	5 pts]	> 1.0 m - 1	•	pox):	
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2	5 pts]	> 1.0 m - 1 < 1.0 m (<=	.5 m (> 3' 3" - 4' 8") [15	pox):	Width
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [	5 pts]	> 1.0 m - 1 < 1.0 m (<=	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]	pox):	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [ COMMENTS	5 pts] 20 pts] Thi	> 1.0 m - 1 ≤ 1.0 m (<=  AVE  s information must also be	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts] RAGE BANKFULL WI	pox): pts]  DTH (Feet): 1.00	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH	5 pts] 20 pts]  Thi DFLOODPLAIN QUALI	> 1.0 m - 1 ≤ 1.0 m (<=  AVE  s information must also but also bu	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts] RAGE BANKFULL WI be completed ft (L) and Right (R) as I	pox): pts]  DTH (Feet): 1.00	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH L R (Per Bank)	5 pts] 20 pts] Thi	> 1.0 m - 1 ≤ 1.0 m (<=  AVE  s information must also to the state of	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts] RAGE BANKFULL WI be completed ft (L) and Right (R) as I	DOX): pts]  DTH (Feet): 1.00  pooking downstream \$\frac{1}{2}\$	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH	5 pts] 20 pts]  Thi DFLOODPLAIN QUALI	s information must also to large the large transfer in the large	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed  ft (L) and Right (R) as I	pox): pts]  DTH (Feet): 1.00	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m	5 pts] 20 pts]  Thi  FLOODPLAIN QUALI FLOODPL  R	s information must also but a	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed ft (L) and Right (R) as I	DTH (Feet): 1.00  cooking downstream ☆  Conservation Tillage	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m	5 pts] 20 pts]  Thi  FLOODPLAIN QUALI FLOODPL  R	> 1.0 m - 1 ≤ 1.0 m (<=  AVE  s information must also to lead	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed ft (L) and Right (R) as I	oox): pts]  DTH (Feet): 1.00  cooking downstream  Conservation Tillage Urban or Industrial Open Pasture, Row Cre	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [2 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m	5 pts] 20 pts]  Thi  FLOODPLAIN QUALI FLOODPL  R	s information must also but a	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed ft (L) and Right (R) as I	DTH (Feet): 1.00  cooking downstream 2  Conservation Tillage Urban or Industrial	Width Max=30
> 4.0 meters (> 13') [30 pts]     > 3.0 m - 4.0 m (> 9' 7" - 13') [2     > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [   COMMENTS	5 pts] 20 pts]  Thi  FLOODPLAIN QUALI FLOODPL  R	> 1.0 m -1 ≤ 1.0 m (<=  AVE  s information must also to lead	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed  ft (L) and Right (R) as I  ank)  L R  r Old	oox): pts]  DTH (Feet): 1.00  cooking downstream  Conservation Tillage Urban or Industrial Open Pasture, Row Cru Mining or Construction	Width Max=30
> 4.0 meters (> 13') [30 pts]     > 3.0 m - 4.0 m (> 9' 7" - 13') [2	This person of the person of t	s information must also be sinformation from the sinformation of sinformation from the sinformation must also be sinformation must also b	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed ft (L) and Right (R) as I  ank)  L R  r Old  eld  ist Channel, isolated po	DOX): pts]  DTH (Feet): 1.00  cooking downstream  Conservation Tillage Urban or Industrial Open Pasture, Row Cru Mining or Construction  cools, no flow (Intermittent	Width Max=30
> 4.0 meters (> 13') [30 pts]     > 3.0 m - 4.0 m (> 9' 7" - 13') [2     > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [   COMMENTS	This person of the person of t	s information must also be sinformation from the sinformation of sinformation from the sinformation must also be sinformation must also b	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed  ft (L) and Right (R) as I  ank)  L R  r Old	DOX): pts]  DTH (Feet): 1.00  cooking downstream  Conservation Tillage Urban or Industrial Open Pasture, Row Cru Mining or Construction  cools, no flow (Intermittent	Width Max=30
A .0 meters (> 13') [30 pts]  > 3.0 m - 4.0 m (> 9' 7" - 13') [2  > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS  FLOW REGIME (At To Stream Flowing Subsurface flow with is COMMENTS  SINUOSITY (Number	This per 61 m (200 pts)	S information must also be set of the property of the propert	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed ft (L) and Right (R) as I  ank)  L R  r Old  eld  dist Channel, isolated por channel, no water (Ep	DOX): pts]  DTH (Feet): 1.00  cooking downstream ☆  Conservation Tillage Urban or Industrial Open Pasture, Row Cru Mining or Construction  cols, no flow (Intermittent oberneral)	Width Max=30
A 4.0 meters (> 13') [30 pts]  > 3.0 m - 4.0 m (> 9' 7" - 13') [2  > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS  FLOW REGIME (At To Stream Flowing) Subsurface flow with is COMMENTS	This 20 pts]  This property of the property of	s information must also be selected Pasture  S information must also be selected Pasture  > 1.0 m (<=  AVE  AVE  AVE  AVE  AVE  AVE  AVE  AV	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed ft (L) and Right (R) as I  ank)  L R  r Old  eld  dist Channel, isolated por channel, no water (Ep	DOX): pts]  DTH (Feet): 1.00  cooking downstream  Conservation Tillage Urban or Industrial Open Pasture, Row Cru Mining or Construction  cools, no flow (Intermittent	Width Max=30
A 4.0 meters (> 13') [30 pts]  > 3.0 m - 4.0 m (> 9' 7" - 13') [2  > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH  (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS  FLOW REGIME (At To Stream Flowing Subsurface flow with is COMMENTS  SINUOSITY (Number None 0.5	This 20 pts]  This properties of the properties of the period of the per	s information must also be set of the property of the propert	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed ft (L) and Right (R) as I  ank)  L R  r Old  eld  dist Channel, isolated por channel, no water (Ep	DOX):  pts]  DTH (Feet): 1.00  cooking downstream ☆  Conservation Tillage  Urban or Industrial  Open Pasture, Row Cre  Mining or Construction  cols, no flow (Intermittent chemeral)	Width Max=30
A 4.0 meters (> 13') [30 pts]  > 3.0 m - 4.0 m (> 9' 7" - 13') [2  > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [  COMMENTS  RIPARIAN ZONE AND RIPARIAN WIDTH  L R (Per Bank) Wide >10m Moderate 5-10m  Narrow <5m None COMMENTS  FLOW REGIME (At To Stream Flowing) Subsurface flow with is COMMENTS  SINUOSITY (Number None)	This 20 pts]  This properties of the properties	s information must also to the state of the	.5 m (> 3' 3" - 4' 8") [15 =3' 3") [5 pts]  RAGE BANKFULL WI  De completed ft (L) and Right (R) as I  ank)  L R  r Old  eld  dist Channel, isolated por channel, no water (Ep	DOX):  pts]  DTH (Feet): 1.00  cooking downstream ☆  Conservation Tillage  Urban or Industrial  Open Pasture, Row Cre  Mining or Construction  cols, no flow (Intermittent chemeral)	Width Max=30  5

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:  CWH Name:  Distance from Evaluated Stream  Distance from Evaluated Stream  Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Township / City:
MISCELLANEOUS
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 05/01/17 _ Quantity: 0.00
Photograph Information:
Elevated Turbidity? (Y/N): N Canopy (% open): 35%
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:
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 site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)  Fish Observed? (Y/N) N Voucher? (Y
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location
Access Road Crossing
Uniform Width = 1.0'
FLOW T

Pool=1"



Stream 63 **Modified Class 1** 



SITE NAME/LOCATION Sunnyside-Carrollton	
SITE NUMBER 1 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft) LAT LONG RIVER CODE RIVER MILE	
DATE 05/01/17 SCORER P. Renner COMMENTS Ephemeral Stream	
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	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]	Points
BEDROCK [16 pt]  0%  FINE DETRITUS [3 pts]	Substrate Max = 40
COBBLE (65-256 mm) [12 pts]	Wax = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]  MUCK [0 pts]  ARTIFICIAL [3 pts]	15
Total of Percentages of 0.00% (A)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock 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	Pool Depth
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 [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	5
COMMENTS MAXIMUM POOL DEPTH (Inches): 1.00	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankfull
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Bankfull Width Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 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  AVERAGE BANKFULL WIDTH (Feet): 0.50  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  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  AVERAGE BANKFULL WIDTH  (Feet): 0.50  This information must also be completed  RIPARIAN WIDTH  FLOODPLAIN QUALITY  FLOODPLAIN QUALITY  FLOODPLAIN QUALITY	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  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  L R (Most Predominant per Bank)  L 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  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 look	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]	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 m (<=10 m) [5 pts]   > 1.0 m (<=10 m) [5 pts]   > 1.0 m	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 m (<=10 minutual numululllullullullullullullullullullull	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  ANOTE: River Left (L) and Right (R) as looking downstream A  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  None  Residential, Park, New Field  None  COMMENTS  > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]  > 1.0 m (<=3' 3") [5 pts]    X   End   End	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  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10 m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Narrow <5m  None  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Noist Channel, isolated pools, no flow (Intermittent)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 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  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide > 10 m  Mature Forest, Wetland  Moderate 5-10 m  Moderate 5-10 m  Residential, Park, New Field  None  COMMENTS  Flow REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  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
> 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  ♣ NOTE: River Left (L) and Right (R) as looking downstream ♣  RIPARIAN WIDTH  FLOODPLAIN QUALITY  ♣ (Per Bank)  Wide >10 m  Mature Forest, Wetland  Moderate 5-10m  Mature Forest, Shrub or Old  Immature Forest, Shrub or Old  Narrow <5m  None  Residential, Park, New Field  Open Pasture, Row Cro  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  Moist Channel, isolated pools, no flow (Intermittent)  Dry channel, no water (Ephemeral)	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  **NOTE: River Left (L) and Right (R) as looking downstream **  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Mature Forest, Wetland  Moderate 5-10m  None  COMMENTS  Residential, Park, New Field  Penced Pasture  Mining or Construction  COMMENTS  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel)  None  1.0  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):  None  1.0  2.0  3.0	Width Max=30

ADDITIONAL STREAM INFORMATION (This Information Must Also be Complete	<u>ed):</u>
QHEI PERFORMED? - Yes V No QHEI Score (If Yes	s, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	Distance from Evaluated Stream
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: NRCS Soil I	Map Page: NRCS Soil Map Stream Order
County: Township / City:	
MISCELLANEOUS	
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 05/01/17	Quantity: 0.00
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 35%	
Were samples collected for water chemistry? (Y/N): N (Note lab sample no. of	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	in:
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
N	ptional. NOTE: all voucher samples must be labeled with the sit
ID number. Include appropriate field data sheets from t	•
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinver	N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)
Comments Regarding Biology:	, N
DRAWING AND NARRATIVE DESCRIPTION OF STREAM	AM REACH (This <u>must</u> be completed):
Include important landmarks and other features of interest for site evaluati	ion and a narrative description of the stream's location
Width=0.5'	
	Width=2.5'
•	W-PJR-050117-1
FLOW -	
Width=0.5'	
Width=0.5'	Pool=1"
width=0.5	



Stream 64 **Modified Class 1** 



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SITE NUMBER_6 RIVER BASIN DRAINAGE AREA (mi²) _	
LENGTH OF STREAM REACH (ft) LAT. LONG. RIVER CODE RIVER MILE	
DATE 04/27/17 SCORER P. Renner COMMENTS Ephemeral Stream	
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	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] 95%	Points
BOULDER (>256 mm) [16 pts]  BEDROCK [16 pt]  BEDROCK [16 pt]  DW  LEAF PACK/WOODY DEBRIS [3 pts]  0%  0%  0%	Substrate
COBBLE (65-256 mm) [12 pts] 0% CLAY or HARDPAN [0 pt]	Max = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]  MUCK [0 pts]  ARTIFICIAL [3 pts]  0%	8
Total of Percentages of 0.00% (A) 100%	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 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 Depth
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	IWIAX = 50
> 22.5 - 30 cm [30 pts]	5
COMMENTS MAXIMUM POOL DEPTH (Inches): 1.00	
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
> 3.0 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 AVERAGE BANKFULL WIDTH (Feet): 1.50	5
This information must also be completed	
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	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆  RIPARIAN WIDTH  FLOODPLAIN QUALITY  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)  Wide >10m  Mature Forest, Wetland  Conservation Tillage	
RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Immature Forest, Shrub or Old  Field  Open Pasture Row Company Compan	rop
RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Narrow <5m  Residential, Park, New Field  Open Pasture, Row Ci	·
RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Immature Forest, Shrub or Old  Field  Open Pasture Row Company Compan	·
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  L R (Per Bank)  Wide >10m  Moderate 5-10m  Narrow <5m  Narrow <5m  RIPARIAN ZONE AND FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  L R (	·
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Immature Forest, Shrub or Old  Immature Forest, Shrub or Old	
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Immature Forest, Shrub or Old  Immature Forest, Shrub or Old  Narrow <5m  Residential, Park, New Field  None  COMMENTS  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  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation)  COMMENTS  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)  COMMENTS  FLOW REGIME (R) as looking downstream ★  NOTE: River Left (L) and Right (R) as looking downstream ★  NOTE: River Left (L) and Right (R) as looking downstream ★  PLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream ★  RIPARIAN WIDTH  FLOODPLAIN QUALITY  FLOODPLAIN QUALITY  Most Predominant per Bank)  L R  Conservation Tillage  Urban or Industrial  Open Pasture, Row Cr  Fenced Pasture  Mining or Construction  Moist Channel, isolated pools, no flow (Intermittenty)  Dry channel, no water (Ephemeral)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  NOTE: River Left (L) and Right (R) as looking downstream ★  NOTE: River Left (L) and Right (R) as looking downstream ★  NOTE: River Left (L) and Right (R) as looking downstream ★  NOTE: River Left (L) and Right (R) as looking downstream ★  NOTE: River Left (L) and Right (R) as looking downstream ★  RIPARIAN WIDTH  FLOODPLAIN QUALITY  Note	
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH FLOODPLAIN QUALITY  L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field  Open Pasture, Row Cr  None COMMENTS  FLOW REGIME (At Time of Evaluation) COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) Comment of the comment	
RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  V None  COMMENTS  FLOW REGIME (At Time of Evaluation)  SINUOSITY (Number of bends per 61 m (200 ft) of channel)  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 A  NOTE: River Left (L) and Right (R) as looking downstream A  NOTE: River Left (L) and Right (R) as looking downstream A  NOTE: River Left (L) and Right (R) as looking downstream A  NOTE: River Left (L) and Right (R) as looking downstream A  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  L R  Conservation Tillage  Urban or Industrial  Open Pasture, Row Ci  Mining or Construction  Conservation Tillage  Urban or Industrial  Open Pasture, Row Ci  Moist Channel, isolated pools, no flow (Intermittent)  Dry channel, no water (Ephemeral)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel)  (Check ONLY one box):  None  3.0	nt)

ADDITIONAL STREAM INFORMATION (This Information Must Al	so be Completed):
QHEI PERFORMED? - Yes No QHEI Score	(If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	
EWH Name:	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE	ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Tow	nship / City:
MISCELLANEOUS	
Base Flow Conditions? (Y/N):Y Date of last precipitation:	Quantity:
Photograph Information:	
Carlopy (% open).	0%
Were samples collected for water chemistry? (Y/N): N (Note	ab 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) Y If no	ot, please explain:
Additional comments/description of pollution impacts:	
BIOTIC EVALUATION	
N	
· /	her collections optional. NOTE: all voucher samples must be labeled with the site ata sheets from the Primary Headwater Habitat Assessment Manual)
	Observed? (Y/N) N Voucher? (Y/N) N Vouch
Comments Regarding Biology:	N Vouciei (1714)
DRAWING AND NARRATIVE DESCRIPTIO	N OF STREAM REACH (This <u>must</u> be completed):
Include important landmarks and other features of interest	for site evaluation and a narrative description of the stream's location
row crop	
_	
Un	iform Width=1.5'
FLOW -	
	HH-PJR- 042517-3
	Pool=1"
p <sub>i</sub>	asture



Stream 65 Modified Class 2



J9
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SITE NAME/LOCATION Carrolton-Sunnyside	
SITE NUMBER 4 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft) LAT LONG RIVER CODE RIVER MILE	
DATE 04/25/17 SCORER PJR COMMENTS Perennial Stream	
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 RECOVERED RECOVERING RECENT OR NO RECOVERED RECOVERE	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  BLDR SLABS [16 pts]  BOULDER (>256 mm) [16 pts]  BEDROCK [16 pt]  COBBLE (65-256 mm) [12 pts]  GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]  Total of Percentages of  0.00% (A)  PERCENT  TYPE  SILT [3 pt]  LEAF PACK/WOODY DEBRIS [3 pts]  O%  CLAY or HARDPAN [0 pt]  MUCK [0 pts]  ARTIFICIAL [3 pts]  O%  BARTIFICIAL [3 pts]  Total of Percentages of  O.00% (A)	HHEI Metric Points Substrate Max = 40
Bldr Slabs, Boulder, Cobble, Bedrock 100%  SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 15  TOTAL NUMBER OF SUBSTRATE TYPES: 4	A+D
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Depth
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]	25
COMMENTS MAXIMUM POOL DEPTH (Inches): 5.00	
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]  (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 Max=30
COMMENTS AVERAGE BANKFULL WIDTH (Feet): 3.50	15
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Mature Forest, Shrub or Old  Field  Narrow <5m  Narrow <5m  Fenced Pasture  COMMENTS  FLOW REGIME (At Time of Evaluation)  COMMENTS  Moist Channel, isolated pools, no flow (Intermittent)  COMMENTS  Moist Channel, no water (Ephemeral)  COMMENTS	
SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check <i>ONLY</i> one box):	
STREAM GRADIENT ESTIMATE  Flat (0.5 ft/100 ft)  Flat to Moderate  Moderate (2 ft/100 ft)  Moderate to Severe  Severe (10 ft/10	00 ft)

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: Distance from Evaluated Stream	
CWH Name: Distance from Evaluated Stream	
EWH Name: Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCAT	ION
USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Orde	r
County: Township / City:	
MISCELLANEOUS	
Base Flow Conditions? (Y/N): N _ Date of last precipitation: 04/25/17 _ Quantity: 0.00	
Photograph Information:	
Elevated Turbidity? (Y/N): N Canopy (% open): 90%	
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:	
Additional comments/description of pollution impacts:	
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 Salamanders Observed? (Y/N) N Voucher? (Y/N) N Vouc	N
Comments Regarding Biology:	
- Commission Contact of the Contact	
DRAWING AND MARRATIVE DECORIDATION OF STREAM REACH (TI.:	
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):	ı
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's k	cation
Roadway	
Width=3.5'	
Pool=5"	
FLOW -	
Culvert Width=3.5'	
Width=3	.5'



Stream 66 **Modified Class 1** 



17
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SITE NAME/LOCATION SITE NUMBER 3 RIVER BASIN DRAINAGE AREA (mi²)	
STE NOWBER RIVER BASIN DRAINAGE AREA (IIII )	
LENGTH OF STREAM REACH (ft) LAT. LONG. RIVER CODE RIVER MILE	
DATE 04/25/17 SCORER PJR COMMENTS Ephemeral Stream	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	uctions
STREAM CHANNEL	OVERY
1. 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  PERCENT	Metric
BLDR SLABS [16 pts]	Points
BEDROCK [16 pt]  BEDROCK [16 pt]  O%  FINE DETRITUS [3 pts]	Substrate Max = 40
COBBLE (65-256 mm) [12 pts]	Max = 40
GRAVEL (2-64 mm) [9 pts]  SAND (<2 mm) [6 pts]  O%  ARTIFICIAL [3 pts]  O%  O%	7
Total of Percentages of Occor (A)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	ATD
2. Maximum Pool Depth ( <i>Measure the maximum pool depth within the 61 meter (200 ft)</i> evaluation reach at the time of	Pool Depth
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
COMMENTS MAXIMUM POOL DEPTH (Inches): 2.00	
	Bankfull
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] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS AVERAGE BANKFULL WIDTH (Feet): 1.00	5
	5
This information must also be completed	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	5
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}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}\text{NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2}River River Riv	5
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY \$NOTE: River Left (L) and Right (R) as looking downstream \$\frac{1}{2} \frac{1}{2} \	5
This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: RIPARIAN WIDTH  LR (Per Bank) LR (Most Predominant per Bank) LR  Wide >10m Mature Forest, Wetland Conservation Tillage	
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 Immature Forest, Shrub or Old Field  Narrow <5m Residential, Park, New Field Open Pasture, Row Crown None Fenced Pasture	
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)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Moderate 5-10m  Residential, Park, New Field  Open Pasture, Row Crossing Completed  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  L R (Most Predominant per Bank)  L R  Conservation Tillage  Urban or Industrial  Open Pasture, Row Crossing Completed	
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) and Right (R) as looking downstream ANOTE: River Left (L) and Right (R) as looking downstream ANOTE: RIPARIAN WIDTH    L R	op -
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 Urban or Industrial  Moderate 5-10m Residential, Park, New Field Open Pasture, Row Cro  None Fenced Pasture Mining or Construction  COMMENTS	op -
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 Urban or Industrial  Field Open Pasture, Row Cro  None Residential, Park, New Field Open Pasture, Row Cro  None Fenced Pasture Mining or Construction  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing Subsurface flow with isolated pools (Interstitial)  This information must also be completed  NOTE: River Left (L) and Right (R) as looking downstream☆  Note: Left (L) and Right (R) as looking downstream☆  RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream☆  Note: Left (L) and Right (R) as	op -
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)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Immature Forest, Shrub or Old  Wide >10m  Narrow <5m  Residential, Park, New Field  Open Pasture, Row Cro  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  COMMENTS  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream  Nariot Left (L) and Right (R) as looking downstream  RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream  Conservation Tillage  Urban or Industrial  Open Pasture, Row Cro  Mining or Construction  Moist Channel, isolated pools, no flow (Intermittent)  Dry channel, no water (Ephemeral)	op -
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 Urban or Industrial  Moderate 5-10m Residential, Park, New Field Open Pasture, Row Cro  Narrow <5m Residential, Park, New Field Open Pasture, Row Cro  None Fenced Pasture Mining or Construction  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):  None 1.0 2.0 3.0	op -

ADDITIONAL STREAM INFORMATION (This Information Must Also be Comple	ted):
QHEI PERFORMED? - Yes V No QHEI Score (If Ye	es, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)  WWH Name:  CWH Name:  EWH Name:	Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATE	RSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil	Map Page: NRCS Soil Map Stream Order
County: Township / City:	
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S Is the sampling reach representative of the stream (Y/N) If not, please explain	or id. and attach results) Lab Number:
Additional comments/description of pollution impacts:	
ID number. Include appropriate field data sheets from Voucher? (Y/N) N Salamanders Observed? (Y/N)	
DRAWING AND NARRATIVE DESCRIPTION OF STRE	AM REACH (This <u>must</u> be completed):
Include important landmarks and other features of interest for site evalua-	tion and a narrative description of the stream's location
Pool=1"	lawn
Uniform Wide	
	lawn

Save as pdf

Reset Form

Stream 67 **Modified Class 1** 



17
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SITE NAME/LOCATION   Carrolton-Sunr	nyside	
SITE NUMBER	2 RIVER BASIN DRAINAGE AREA (mi²)	
LENGTH OF STREAM REACH (ft)	LAT. LONG. RIVER CODE RIVER MILE	
DATE 04/25/17 SCORER PJR	COMMENTS Ephemeral Stream	
NOTE: Complete All Items On This Fo	orm - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / N	NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO REC	OVERY
	every type of substrate present. Check ONLY two predominant substrate TYPE boxes	ппе
(Max of 32). Add total number of signi	ificant substrate types found (Max of 8). Final metric score is sum of boxes A & B.  PERCENT TYPE PERCENT	HHEI Metric
BLDR SLABS [16 pts]	0% SILT [3 pt] 100%	Point
BOULDER (>256 mm) [16 pts]  BEDROCK [16 pt]	0% LEAF PACK/WOODY DEBRIS [3 pts] 0% 0% 0%	Substrat
COBBLE (65-256 mm) [12 pts]	0% CLAY or HARDPAN [0 pt] 0%	Max = 4
GRAVEL (2-64 mm) [9 pts]	0% MUCK [0 pts] 0%	7
SAND (<2 mm) [6 pts]	0% ARTIFICIAL [3 pts] 0%	
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock	0.00% (A) 100% (B)	A + B
SCORE OF TWO MOST PREDOMINATE SU		
• •	e maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
<ul><li>evaluation. Avoid plunge pools from re</li><li>&gt; 30 centimeters [20 pts]</li></ul>	road culverts or storm water pipes) (Check ONLY one box):  > 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	MAXIMUM POOL DEPTH (Inches): 1.00	
3 BANK FULL WIDTH (Measured as t	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	AVERAGE BANKFULL WIDTH (Feet): 1.00	5
COMMENTO	AVERAGE BANK GEE WISHT (1 GGL).	
	This information must also be completed	
<b>RIPARIAN ZONE AND FLOO</b> RIPARIAN WIDTH	DPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ 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	
✓	Residential, Park, New Field Open Pasture, Row Cro	p
None	Fenced Pasture Mining or Construction	
COMMENTS		
FLOW REGIME (At Time of E	Evaluation) (Check ONLY one box):	
Stream Flowing `	Moist Channel, isolated pools, no flow (Intermittent)	
Subsurface flow with isolated p	pools (Interstitial)	
CINI IOSITY (Number of band	de per 61 m (200 ft) of channel\ (Check ON) V and hav\;	
None None	ds per 61 m (200 ft) of channel) (Check <i>ONLY</i> one box):  ☐ 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	00 ft)

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: Distance from Evaluated Stream
CWH Name: Distance from Evaluated Stream Distance from Evaluated Stream Distance from Evaluated Stream
EWH Name: Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Township / City:
MISCELLANEOUS
Base Flow Conditions? (Y/N): N Date of last precipitation: 04/25/17 Quantity: 0.00
Photograph Information:
Elevated Turbidity? (Y/N): N Canopy (% open): 90%
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:
Additional comments/description of pollution impacts:
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 Salamanders Observed? (Y/N) N Voucher? (Y/N) N
Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Vo
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location
QH-PJR-042517-1
Pool=1"
FLOW -
Uniform Width = 1'

Save as pdf

Reset Form

Stream 68

**Poor Warmwater** 



## Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 32

Stream & Location: QH-PJR-042517-1	_ <i>RM</i> :	Date:	
Scorers Full Name & Affiliation	Philip I	Renner	
River Code: STORET #: Lat./ Long.:			Office verified location
BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN	ONE (Or 2	& average) QUAL	
		☐ HEAVY   ☐ MODER/ ☐ NORMA ☐ FREE [1 ☐ EXTENS ☐ MODER/ NORMA ☐ NONE [1	ATE [-1] Substrate L [0] 6 IVE [-2] ATE [-1]
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more community; 2-Moderate amounts, but not of highest quality or in small amounts quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional UNDERCUT BANKS [1] POOLS > 70cm [2] OXBOWS, BACKWAT OVERHANGING VEGETATION [1] ROOTWADS [1] AQUATIC MACROPHY SHALLOWS (IN SLOW WATER) [1] BOULDERS [1] LOGS OR WOODY DE ROOTMATS [1]	or nignest er, large il pools. ERS [1] /TES [1]	Check ONE (Compared to the compared to the com	Or 2 & average) E >75% [11] E 25-75% [7]
Comments			Maximum 2
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY			
☐ HIGH [4]       ☐ EXCELLENT [7]       ☐ NONE [6]       ☐ HIGH [3]         ☐ MODERATE [3]       ☐ GOOD [5]       ☐ RECOVERED [4]       ☐ MODERATE [2]         ☐ LOW [2]       ☐ FAIR [3]       ☐ RECOVERING [3]       ☐ LOW [1]         ☐ NONE [1]       ☐ POOR [1]       ☐ RECENT OR NO RECOVERY [1]         Comments	1		Channel Maximum 20
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK ( River right looking downstream RIPARIAN WIDTH RIP	ITY	CONSERVATION URBAN OR IN	STRUCTION [0]
5] POOL / GLIDE AND RIFFLE / RUN QUALITY  MAXIMUM DEPTH CHANNEL WIDTH  Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply  > 1m [6] POOL WIDTH > RIFFLE WIDTH [2] TORRENTIAL [-1] SLOW [1]  0.7-<1m [4] POOL WIDTH = RIFFLE WIDTH [1] VERY FAST [1] INTERST  0.4-<0.7m [2] POOL WIDTH > RIFFLE WIDTH [0] FAST [1] INTERMITED INTERMITE	  TIAL [-1]  TTENT [-2]  1]	Secondal (circle one and c	Pool/Current 3
Comments			Maximum 12
Indicate for functional riffles; Best areas must be large enough to support of riffle-obligate species:  Check ONE (Or 2 & average).  RIFFLE DEPTH  RUN DEPTH  RIFFLE / RUN SUBSTRATE RIF  BEST AREAS > 10cm [2]  MAXIMUM > 50cm [2]  STABLE (e.g., Cobble, Boulder) [2]  BEST AREAS 5-10cm [1]  MOD. STABLE (e.g., Large Gravel) [1]  BEST AREAS < 5cm  UNSTABLE (e.g., Fine Gravel, Sand) [0]  Comments	FLE / RU	ation ☑NO  JN EMBEDD  NONE [2]  LOW [1]  MODERATE [0]  EXTENSIVE [-1]	Riffle /
6] GRADIENT ( 14.5 ft/mi)	) %GLID )%RIFFL	=	Gradient 8

Comment RE: Reach consistency/ Is reach typical of steam?, Recreation/ Observed - Inferred, Other/ Sampling observations, Concerns, Access directions, etc.

AJ SAMPLED REACH

#### FI MEASUREMENTS bankfull max. depth floodprone x<sup>2</sup> width bankfull x depth x bankfull width max. depth W/D ratio x depth x width HARDENED / URBAN / DIRT&GRIME BMPs-CONSTRUCTION-SEDIMENT **LOGGING / IRRIGATION / COOLING** FALSE BANK / MANURE / LAGOON WWTP / CSO / NPDES / INDUSTRY WASH H<sub>2</sub>0 / TILE / H<sub>2</sub>0 TABLE ACID / MINE / QUARRY / FLOW **BANK / EROSION / SURFACE** CONTAMINATED / LANDFILL El ISSUES Circle some & COMMENT PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA **MODIFIED / DIPPED OUT / NA** MOVING-BEDLOAD-STABLE YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED DI MAINTENANCE RELOCATED / CUTOFFS **ARMOURED / SLUMPS** LEVEED / ONE SIDED INVASIVE MACROPHYTES ☐ SLUDGE DEPOSITS ☐ CSOS/SSOS/OUTFALLS **BI AESTHETIC EXCESS TURBIDITY** ☐ NUISANCE ALGAE **NUISANCE ODOR** DISCOLORATION TRASH / LITTER FOAM / SCUM **OIL SHEEN** E □ > 70 cm/ CTB □ SECCHI DEPTH□ E 1st --sample pass-- 2nd ☐ HIGH ☐ ☐ UP ☐ NORMAL ☐ ☐ LOW ☐ ☐ DRY ☐ ☐ DRY 1st -sample pass- 2nd CLARITY STAGE 20-<40 cm √ 40-70 cm Check ALL that apply □ < 20 cm V > 85%- OPEN CANOPY DISTANCE 55%-<85% 0.15 Km 0.12 Km □ BOAT ☑ WADE □ L. LINE □ OTHER 0.5 Km METHOD 0.2 Km OTHER 200 feet

entrench. ratio

NATURAL / WETLAND / STAGNANT

ATMOSPHERE / DATA PAUCITY

FLOOD CONTROL / DRAINAGE

POOL: □>100ft2□>3ft

AREA DEPTH

<u></u>

CJ REC

☐ 10%-<30% ☐ <10%- CLOSED

30%-<55%

IMPOUNDED / DESICCATED

ISLANDS / SCOURED

PARK / GOLF / LAWN / HOME

# Stream Drawing:

overhanging vegetation

> clay tile broken

Stream 69 **Modified Class 1** 



17	
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SITE NAME/LOCATION   Carrolton-Sunnyside	
SITE NUMBER 1 RIVER BASIN DRAINAGE AREA (mi²	)
LENGTH OF STREAM REACH (ft) LAT LONG RIVER CODE RIVER MIL	E
DATE 04/25/17 SCORER PJR COMMENTS Ephemeral Stream	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for In	structions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO F	RECOVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxe	s 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]	Points
BOULDER (>256 mm) [16 pts]	Substrate
☐ ☐ COBBLE (65-256 mm) [12 pts] ☐ ☐ CLAY or HARDPAN [0 pt] ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Max = 40
☐ GRAVEL (2-64 mm) [9 pts] ☐ MUCK [0 pts] ☐ 0% ☐ ARTIFICIAL [3 pts] ☐ 0% ☐ 0% ☐ 0% ☐ O% ☐ O% ☐ O% ☐ O% ☐ O%	7
Total of Percentages of O cont (A)	
Bldr Slabs, Boulder, Cobble, Bedrock	_
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 1	
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 Dept Max = 30
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	5
COMMENTS MAXIMUM POOL DEPTH (Inches); 1.00	╗║╶╸┃
	<b>┛</b> ┃ <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]	Bankfull Width
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankfull
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]  (Check ONL Y one box):  > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]  < 1.0 m (<=3' 3") [5 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]  (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 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  AVERAGE BANKFULL WIDTH (Feet):  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  AVERAGE BANKFULL WIDTH (Feet):  1.06	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  AVERAGE BANKFULL WIDTH (Feet):  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream PLOODPLAIN QUALITY  L R (Per Bank)  L R (Most Predominant per Bank)  L R	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  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH  ENDOTPLAIN QUALITY  L R (Per Bank)  Wide >10m Mature Forest, Wetland  Mature Forest, Shrub or Old	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  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 m Mature Forest, Wetland Moderate 5-10 m  Moderate 5-10 m  Conservation Tillage Immature Forest, Shrub or Old Field  Conservation Power Pasture Power  Conservation Power  Con	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  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  L R (Per Bank)  Wide >10m  Mature Forest, Wetland  Moderate 5-10m  Mature Forest, Wetland  Moderate 5-10m  Residential, Park, New Field  Open Pasture, Row	Bankfull Width Max=30 5
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  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 m Mature Forest, Wetland Moderate 5-10 m  Moderate 5-10 m  Conservation Tillage Immature Forest, Shrub or Old Field  Conservation Power Pasture Power  Conservation Po	Bankfull Width Max=30 5
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  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  ANOTE: River Left (L) and Right (R) as looking downstream and the standard process. The standard process is the standard process is the standard process. The standard process is the standard process is the standard process is the standard process is the standard process. The standard process is the sta	Bankfull Width Max=30 5
BANK FULL WIDTH (Measured as the average of 3-4 measurements)    A.0 meters (> 13') [30 pts]	Bankfull Width Max=30 5
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 -3.0 m (> 9' 7" -4' 8") [20 pts]  COMMENTS  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  RIPARIAN WIDTH  FLOODPLAIN QUALITY  Moderate 5-10m  Mature Forest, Wetland  Moderate 5-10m  Mature Forest, Shrub or Old  Immature Forest, Shrub or Old  Moderate 5-10m  Residential, Park, New Field  Open Pasture, Row  None  Residential, Park, New Field  Mining or Construct  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	Bankfull Width Max=30 5
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  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  Wide >10 m  Mature Forest, Wetland  Moderate 5-10 m  Moderate 5-10 m  Moderate 5-10 m  Residential, Park, New Field  Park, New Field  Open Pasture, Row  None  COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box):  Stream Flowing  Subsurface flow with isolated pools (Interstitial)  This information must also be completed  RVERAGE BANKFULL WIDTH  (Feet): 1.00  AVERAGE BANKFULL	Bankfull Width Max=30 5
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  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 (Most Predominant per Bank) L R (Most Predominant per Bank) Urban or Industrial Mature Forest, Wetland Conservation Tillag Immature Forest, Shrub or Old Urban or Industrial Narrow <5m Residential, Park, New Field Open Pasture, Row None Recommend Fenced Pasture Mining or Construct COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):  None 1.0 2.0 3.0	Bankfull Width Max=30 5
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  This information must also be completed  RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY  (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Residential, Park, New Field  Open Pasture, Row None COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) COdes  Codes  Codes  Codes Co	Bankfull Width Max=30 5
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  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 (Most Predominant per Bank) L R (Most Predominant per Bank) Urban or Industrial Mature Forest, Wetland Conservation Tillag Immature Forest, Shrub or Old Urban or Industrial Narrow <5m Residential, Park, New Field Open Pasture, Row None Recommend Fenced Pasture Mining or Construct COMMENTS  FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral)  COMMENTS  SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):  None 1.0 2.0 3.0	Bankfull Width Max=30  5  ce crop

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:  CWH Name:  Distance from Evaluated Stream  Distance from Evaluated Stream  Distance from Evaluated Stream
EWH Name: Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION  USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Township / City:
MISCELLANEOUS
Base Flow Conditions? (Y/N):_N Date of last precipitation:04/25/17 Quantity:0.00
Photograph Information:
Elevated Turbidity? (Y/N): N Canopy (% open): 90%
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:
Additional comments/description of pollution impacts:
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 Salamanders Observed? (Y/N) N Voucher? (Y/N) N Vouc
Comments Regarding Biology:
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):  Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location
lawn shrubland
PSS Wetland
Flows from Pipe

Flows from Pipe

Save as pdf



## APPENDIX D DELINEATED FEATURES PHOTOGRAPHS

**D1- DELINEATED WETLANDS** 



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 27, 2017

#### **Description:**

Wetland 01

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 27, 2017

### Description:

Wetland 02

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 27, 2017

### Description:

Wetland 03

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 27, 2017

### Description:

Wetland 04

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 27, 2017

### Description:

Wetland 05

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 27, 2017

### Description:

Wetland 06

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 27, 2017

#### **Description:**

Wetland 07

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 27, 2017

#### **Description:**

Wetland 08

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 26, 2017

### Description:

Wetland 09

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 26, 2017

### Description:

Wetland 10

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



# PHOTOGRAPHIC RECORD WETLANDS

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 26, 2017

### Description:

Wetland 11

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 26, 2017

### Description:

Wetland 12

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 26, 2017

### Description:

Wetland 13

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 25, 2017

### Description:

Wetland 14

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 25, 2017

### Description:

Wetland 15

PSS wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 25, 2017

### Description:

Wetland 16

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



# PHOTOGRAPHIC RECORD WETLANDS

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 25, 2017

### Description:

Wetland 17

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 28, 2017

### Description:

Wetland 18

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 28, 2017

### Description:

Wetland 19

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 28, 2017

### Description:

Wetland 20

PFO wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit



**WETLANDS** 

**Client Name:** 

AEP

Site Location:

Carrollton-Sunnyside 138 kV Transmission Line Project

**Project No.** 60521865

#### Date:

April 28, 2017

### Description:

Wetland 21

PEM wetland



Facing North



Facing East



Facing South



Facing West



Soil Pit

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

6/26/2017 5:02:02 PM

in

Case No(s). 17-1318-EL-BLN

Summary: Letter of Notification electronically filed by Mr. Ryan F.M. Aguiar on behalf of AEP Ohio Transmission Company, Inc.