Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3) : 22

SITE NAME/LOCATION: Richland-East Leipsic 138kV Transmission Line

SITE NUMBER: Stream REL-16 RIVER BASIN: Maumee DRAINAGE AREA (mi²): 1.27

LENGTH OF STREAM REACH (ft): 200 LAT.: 41.15150 LONG.: -84.15749 RIVER CODE: RIVER MILE:

DATE: 07/20/20 SCORER: PJR/MDT COMMENTS: ephemeral stream

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

STREAM CHANNEL MODIFICATIONS: ☐ NONE / NATURAL CHANNEL ☐ RECOVERED ☑ RECOVERING ☐ RECENT OR NO RECOVERY

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

TYPE		PERCENT	TYPE		PERCENT
☐	BLDR SLABS [16 pts]	0%	☑	SILT [3 pt]	100%
☐	BOULDER (>256 mm) [16 pts]	0%	☐	LEAF PACK/WOODY DEBRIS [3 pts]	0%
☐	BEDROCK [16 pt]	0%	☐	FINE DETRITUS [3 pts]	0%
☐	COBBLE (65-256 mm) [12 pts]	0%	☐	CLAY or HARDPAN [0 pt]	0%
☐	GRAVEL (2-64 mm) [9 pts]	0%	☐	MUCK [0 pts]	0%
☐	SAND (<2 mm) [6 pts]	0%	☐	ARTIFICIAL [3 pts]	0%

Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock: 0.00% **(A)** Substrate Percentage Check **(B)**

SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 **TOTAL NUMBER OF SUBSTRATE TYPES:** 1

HHEI Metric Points

Substrate Max = 40: 7

A + B

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):

☐	> 30 centimeters [20 pts]	☐	> 5 cm - 10 cm [15 pts]
☐	> 22.5 - 30 cm [30 pts]	☐	< 5 cm [5 pts]
☐	> 10 - 22.5 cm [25 pts]	☑	NO WATER OR MOIST CHANNEL [0 pts]

COMMENTS: **MAXIMUM POOL DEPTH (centimeters):** 0

Pool Depth Max = 30: 0

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]
☐	> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	☐	≤ 1.0 m (<=3' 3") [5 pts]
☐	> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]		

COMMENTS: **AVERAGE BANKFULL WIDTH (meters):** 1.10

Bankfull Width Max=30: 15

This information must also be completed

RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆

RIPARIAN WIDTH (Per Bank) L	R	FLOODPLAIN QUALITY (Most Predominant per Bank) L	R		L	R	
☐	☐	Wide >10m	☐	☐	Mature Forest, Wetland	☐	☐	Conservation Tillage
☐	☐	Moderate 5-10m	☐	☐	Immature Forest, Shrub or Old Field	☐	☐	Urban or Industrial
☑	☑	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)
☐	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
☐	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 ☑ No QHEI Score _____ (If Yes, Attach Completed QHEI Form)

DOWNSTREAM DESIGNATED USE(S)

☑ WWH Name: Maumee River 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: New Bavaria NRCS Soil Map Page: _____ NRCS Soil Map Stream Order _____

County: Henry Township / City: Palmer Township

MISCELLANEOUS

Base Flow Conditions? (Y/N): Y Date of last precipitation: _____ Quantity: _____

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) 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)

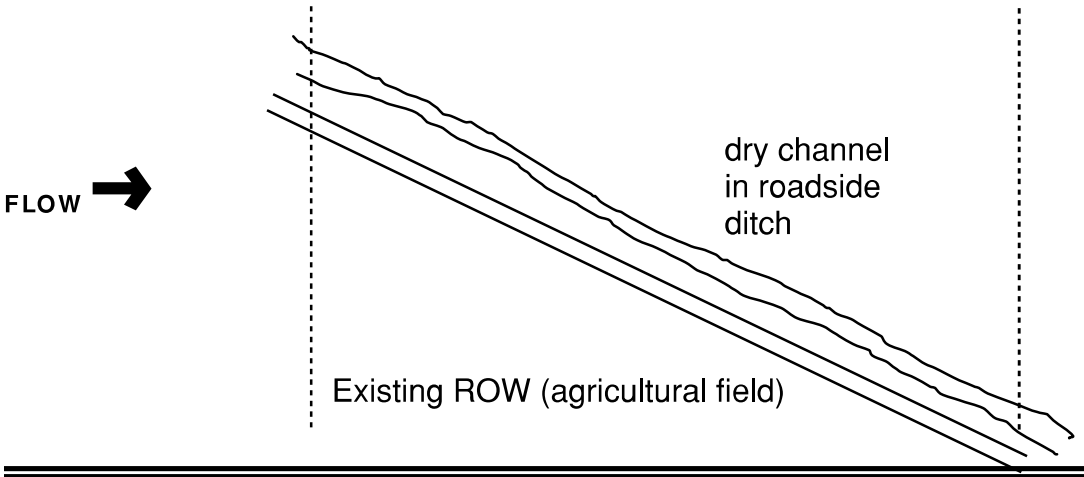
Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N

Frogs or Tadpoles 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



Save as pdf Reset Form

APPENDIX

D REPRESENTATIVE PHOTOGRAPHS

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 1

Stream REL-1 (ephemeral), facing upstream on July 21, 2020.

PHOTOGRAPH 2

Stream REL-1 (ephemeral), facing downstream on July 21, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 3

Stream REL-1 (ephemeral), substrate on July 21, 2020.

PHOTOGRAPH 4

Stream REL-2 (Maumee River, perennial), facing upstream on July 21, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 5

Stream REL-2 (Maumee River, perennial), facing downstream on July 21, 2020.

PHOTOGRAPH 6

Stream REL-2 (Maumee River, perennial), substrate on July 21, 2020.

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PHOTOGRAPH 7

Stream REL-3 (intermittent), facing upstream on July 21, 2020.

PHOTOGRAPH 8

Stream REL-3 (intermittent), facing downstream on July 21, 2020.

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PHOTOGRAPH 9

Stream REL-3 (intermittent), substrate on July 21, 2020.

PHOTOGRAPH 10

Stream REL-4 (ephemeral), facing upstream on July 21, 2020.

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PHOTOGRAPH 11

Stream REL-4 (ephemeral), facing downstream on July 21, 2020.

PHOTOGRAPH 12

Stream REL-5 (intermittent), facing upstream on July 21, 2020.

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PHOTOGRAPH 13

Stream REL-5 (intermittent), facing downstream on July 21, 2020.

PHOTOGRAPH 14

Stream REL-5 (intermittent), substrate on July 21, 2020.

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PHOTOGRAPH 15

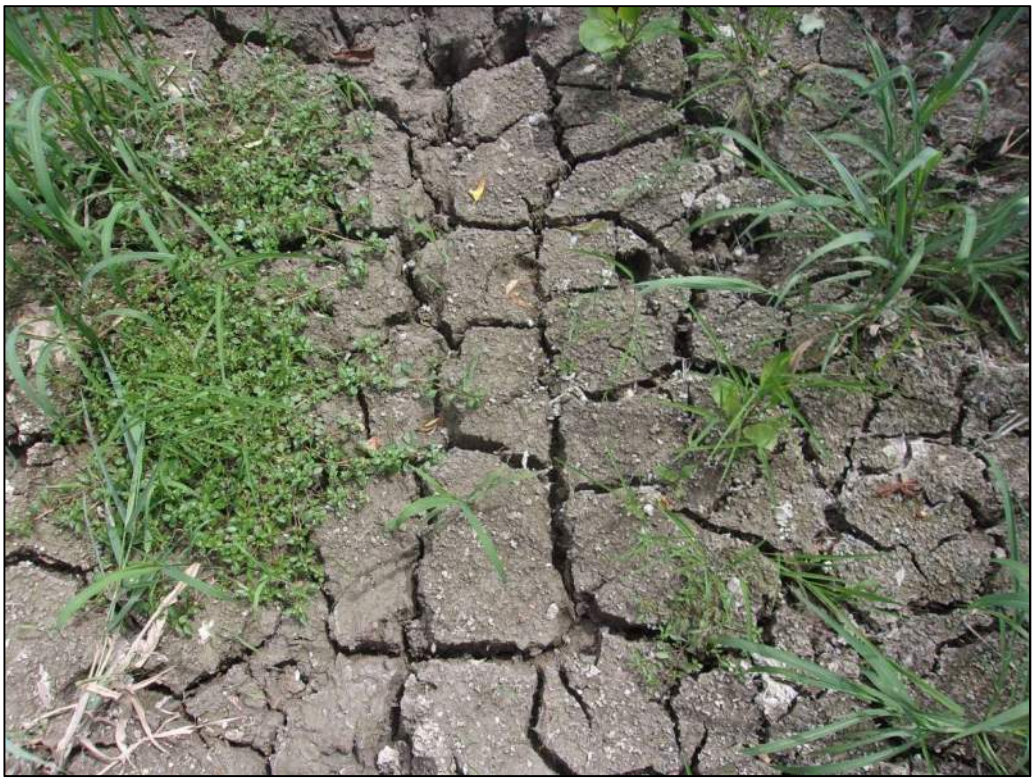
Stream REL-6 (ephemeral), facing upstream on July 20, 2020.

PHOTOGRAPH 16

Stream REL-6 (ephemeral), facing downstream on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 17



Stream REL-6 (ephemeral), substrate on July 20, 2020.

PHOTOGRAPH 18

Stream REL-7 (ephemeral), facing upstream on July 20, 2020.

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PHOTOGRAPH 19

Stream REL-7 (ephemeral), facing downstream on July 20, 2020.

PHOTOGRAPH 20

Stream REL-8 (ephemeral), facing upstream on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 21

Stream REL-8 (ephemeral), facing downstream on July 20, 2020.

PHOTOGRAPH 22

Stream REL-9 (ephemeral), facing upstream on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 23

Stream REL-9 (ephemeral), facing downstream on July 20, 2020.

PHOTOGRAPH 24

Stream REL-10 (ephemeral), facing upstream on July 20, 2020.

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PHOTOGRAPH 25

Stream REL-10 (ephemeral), facing downstream on July 20, 2020.

PHOTOGRAPH 26

Stream REL-10 (ephemeral), substrate on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 27

Stream REL-13 (ephemeral), facing upstream on July 20, 2020.

PHOTOGRAPH 28

Stream REL-13 (ephemeral), facing downstream on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 29

Stream REL-13 (ephemeral), substrate on July 20, 2020.

PHOTOGRAPH 30

Stream REL-14 (ephemeral), facing upstream on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 31

Stream REL-14 (ephemeral), facing downstream on July 20, 2020.

PHOTOGRAPH 32

Stream REL-14 (ephemeral), substrate on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 33

Stream REL-15 (ephemeral), facing upstream on July 20, 2020.

PHOTOGRAPH 34

Stream REL-15 (ephemeral), facing downstream on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 35

Stream REL-15 (ephemeral), substrate on July 20, 2020.

PHOTOGRAPH 36

Wetland REL-1 (PEM), facing north on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 37

Wetland REL-1 (PEM), facing east on July 20, 2020.

PHOTOGRAPH 38

Wetland REL-1 (PEM), facing west on July 20, 2020.

Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 39

Wetland REL-1 (PEM), soil pit on July 20, 2020.

PHOTOGRAPH 40

Wetland REL-2 (PEM), facing northwest on July 20, 2020.

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PHOTOGRAPH 41

Wetland REL-2 (PEM), facing southeast on July 20, 2020.

PHOTOGRAPH 42

Wetland REL-2 (PEM), soil pit on July 20, 2020.

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PHOTOGRAPH 43

Pond REL-1, facing north on July 21, 2020.

PHOTOGRAPH 44

Pond REL-1, facing south on July 21, 2020.

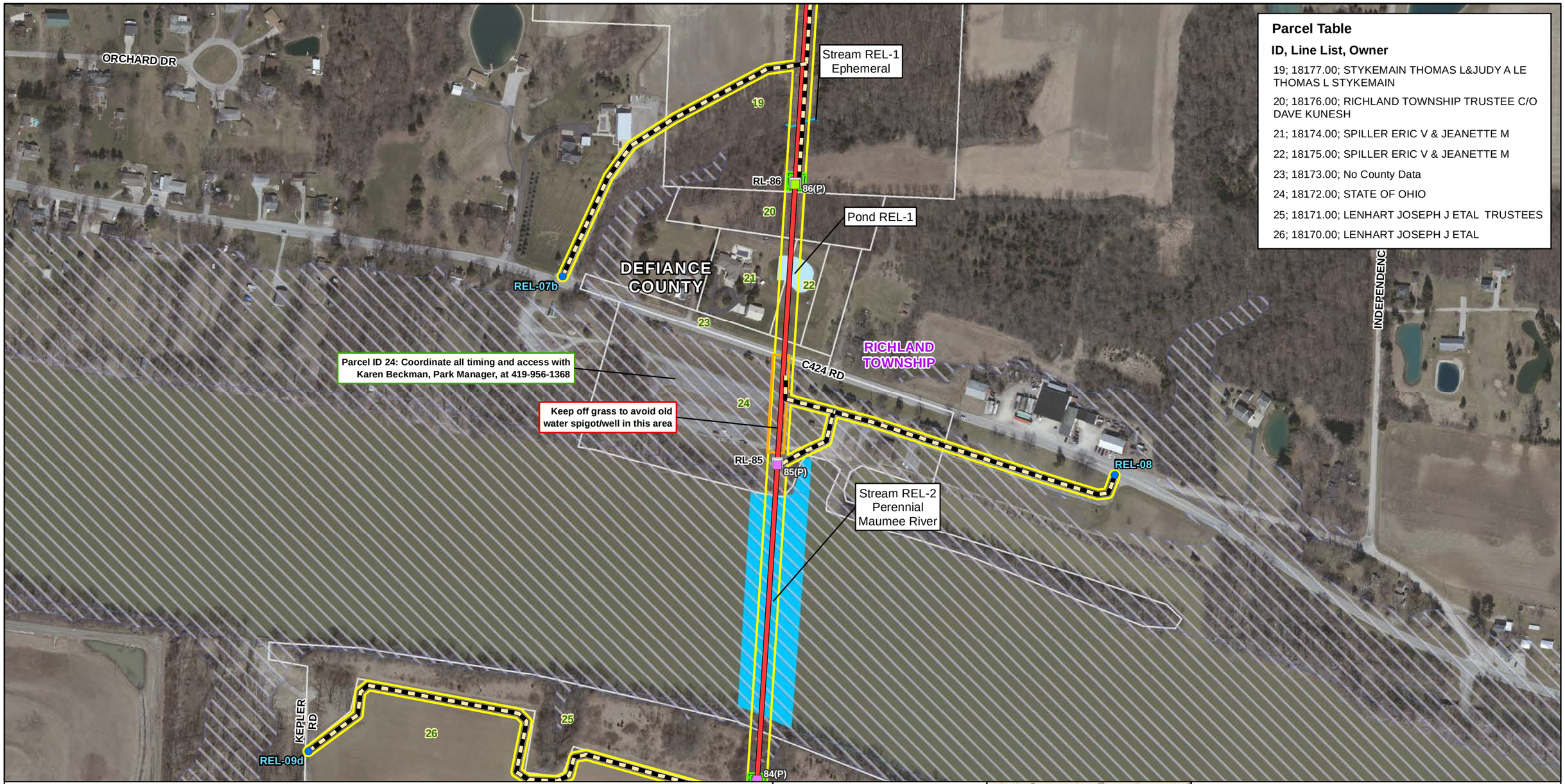
Project Title: Richland-East Leipsic 138 kV Transmission Line Rebuild Project

PHOTOGRAPH 45

Upland REL-1, facing north on July 20, 2020.

PHOTOGRAPH 46

Upland REL-2, facing west on July 20, 2020.



Parcel Table

ID, Line List, Owner

19; 18177.00; STYKEMAIN THOMAS L&JUDY A LE THOMAS L STYKEMAIN

20; 18176.00; RICHLAND TOWNSHIP TRUSTEE C/O DAVE KUNESH

21; 18174.00; SPILLER ERIC V & JEANETTE M

22; 18175.00; SPILLER ERIC V & JEANETTE M

23; 18173.00; No County Data

24; 18172.00; STATE OF OHIO

25; 18171.00; LENHART JOSEPH J ETAL TRUSTEES

26; 18170.00; LENHART JOSEPH J ETAL

- Substation
- Existing Structure
- Proposed Richland-East Leipsic 138 kV
- Existing Richland-East Leipsic 138 kV
- Railroad
- Survey Corridor
- Impacted Parcel
- Floodplain
- City Boundary
- Township Boundary
- County Boundary
- Access Point
- Access Road
- Pull Site
- Laydown Yard
- Turn Around (50' x 50')
- Delineated Pond
- Delineated Stream
- Delineated Wetland

Proposed Structures (P)

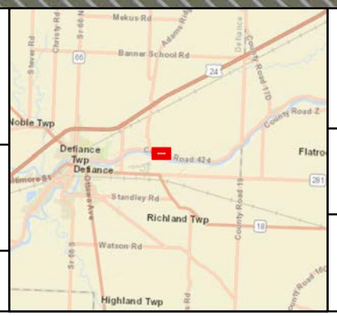
- AEP-owned
- 3-pole angle
- 3-pole deadend
- Braced post tangent
- H-frame tangent
- Laminate braced post angle
- Laminate braced post tangent
- Steel H-frame deadend on concrete foundation
- Suspension pull off

Exhibit 23

Sources:
Imagery (OGRIP)

Coordinate System:
UTM Zone 17 North
NAD 1983

May 4, 2022



RICHLAND - EAST LEIPSIC 138 KV
TRANSMISSION LINE REBUILD PROJECT

Floodplain Crossing

ToledoEdison
A FirstEnergy Company

wsp

0 300 600 Feet

N

Summary: Application Letter of Notification (Part 6 of 6) electronically filed by Ms. Devan K. Flahive on behalf of American Transmission Systems Incorporated