



1406 Wilson Avenue
Tullahoma, TN 37388
(931) 247-8915

May 11, 2022

Tennessee Department of Environment and Conservation
Division of Water Resources
Nashville Environmental Field Office
711 R.S. Gass Boulevard
Nashville, TN 37216

RE: Hydrologic Determination Report – 841 Cowan Road, Dickson, Dickson County

The attached hydrologic determination (HD) (Attachment 1) is submitted **to qualify for treatment provided for in §69-3-108(r)**. A hydrologic determination was conducted on the approximate 16-acre site to identify water resources. The site investigation identified the following wet weather conveyances (WWC).

WWC 1 – Start: 36.055323, -87.380948, End: 36.055125, -87.380831
WWC 2 – Start: 36.056163, -87.379839, End: 36.055457, -87.379552
WWC 3 – Start: 36.055984, -87.379007, End: 36.055396, -87.379093
WWC 4 – Start: 36.057154, -87.379393, End: 36.055993, -87.382135
WWC 5 – Start: 36.057132, -87.381253, End: 36.056565, -87.381054
WWC 6 – Start: 36.057193, -87.382858, End: 36.055836, -87.382829

No wetlands or ponds were observed within the project site. A site plan has yet to be developed. The property consists of 1 parcel owned by Pennock Place, LLC (Parcel ID 110 066.00)

Please contact me via my cell phone or email if you have any questions. All submitted information is true, accurate and complete.

Sincerely,

Christopher Grow
TNQHP #1172-TN18

Attachments:

1. Hydrologic Determination Report
2. Property Access Permission Letter

Attachment 1

Hydrologic Determination Report

841 Cowan Road

HYDROLOGIC DETERMINATION REPORT

841 Cowan Road
Dickson County, Tennessee

Prepared by:

Christopher Grow
TNQHP #1172-TN18

and

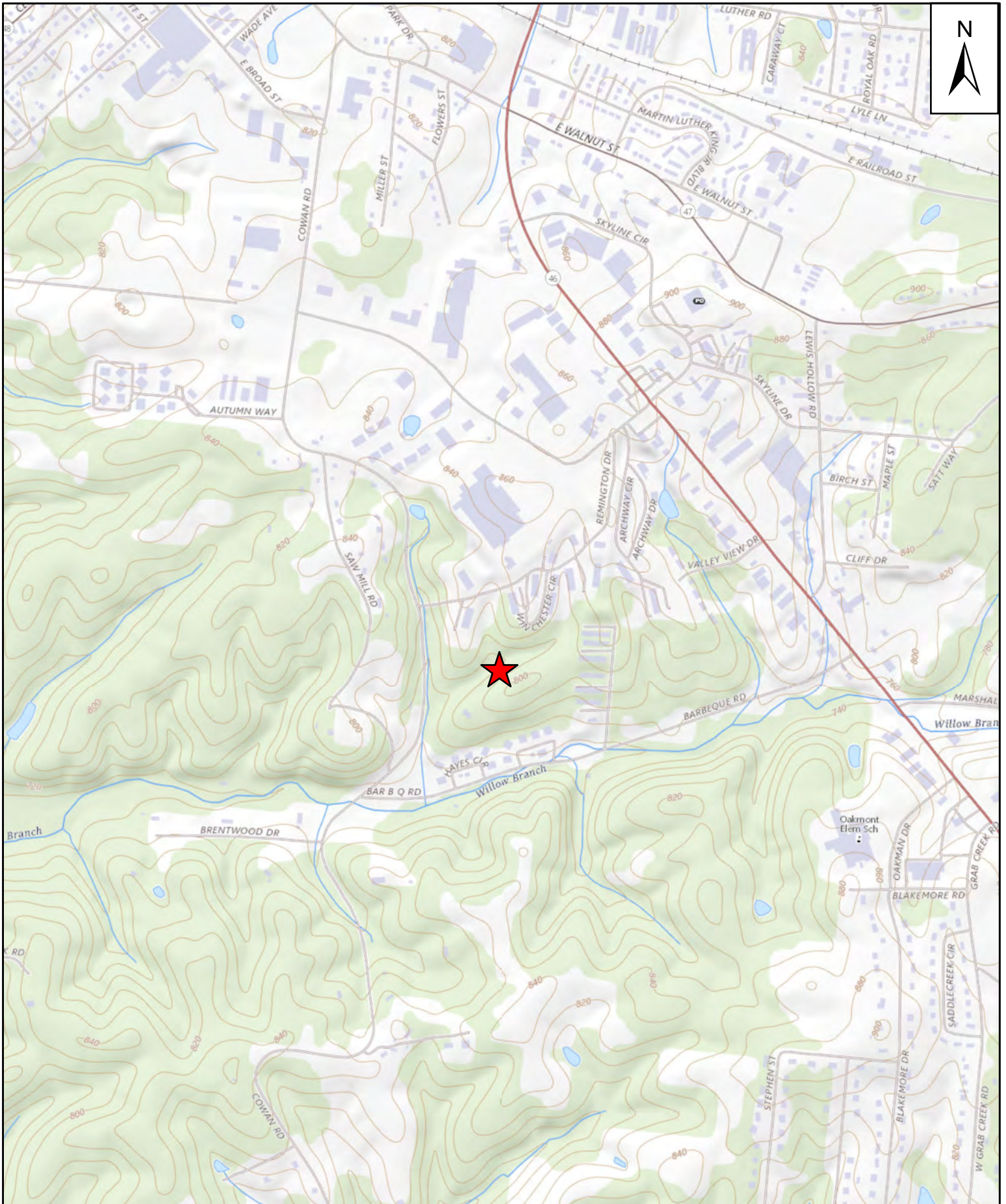
Dru Wilhite
Field Technician

April 21, 2022

Contents

Site Maps
Datasheets and Photos
Rain Data

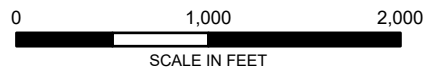
Site Maps



LEGEND



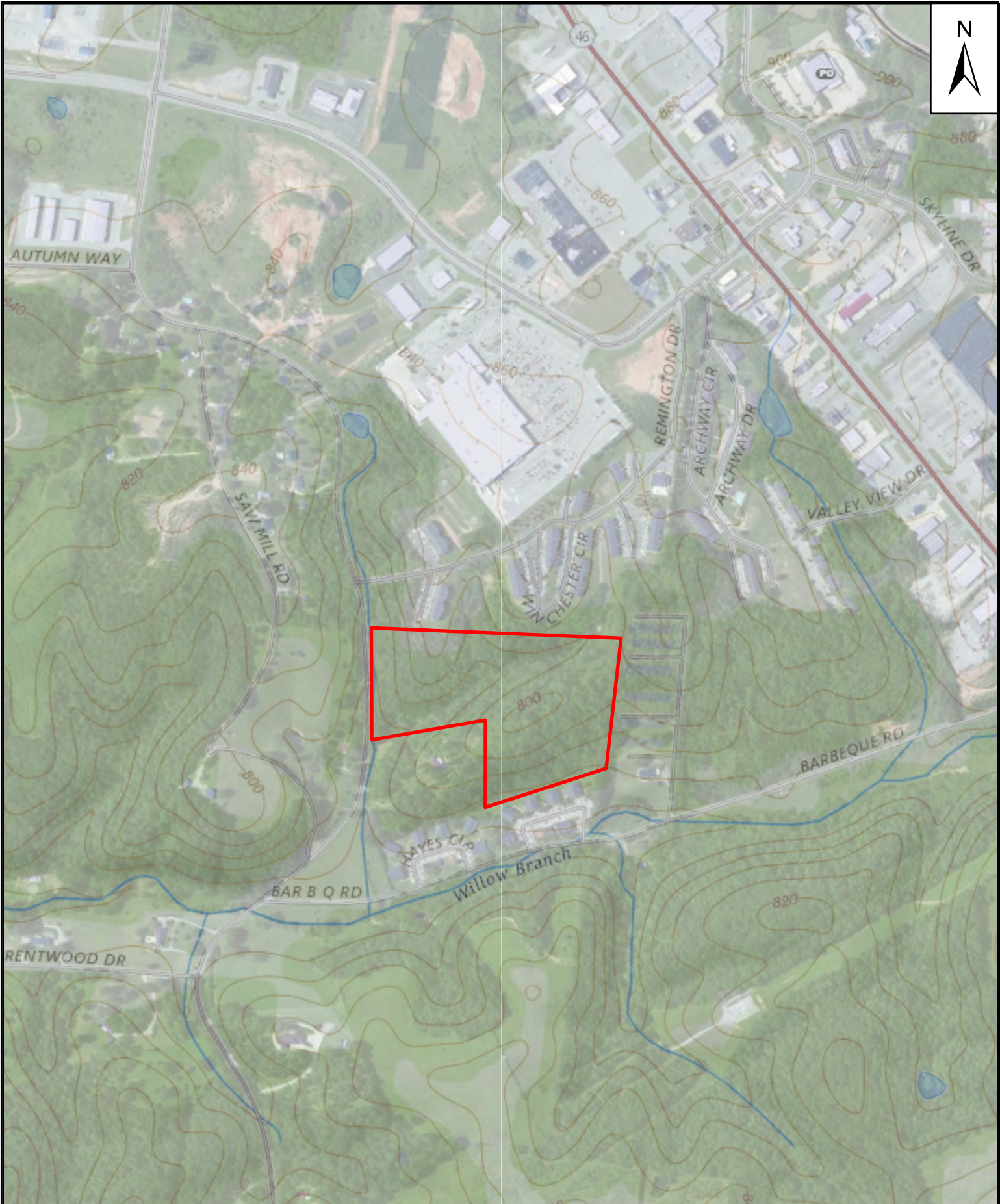
SITE LOCATION



Coordinate System: NAD 1983
State Plane Tennessee Feet

SITE LOCATION MAP
841 COWAN ROAD
DICKSON COUNTY, TENNESSEE
APRIL 21, 2022





LEGEND

 PROJECT BOUNDARY

0 600 1,200

SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

VICINITY MAP
841 COWAN ROAD
DICKSON COUNTY, TENNESSEE
APRIL 21, 2022





LEGEND

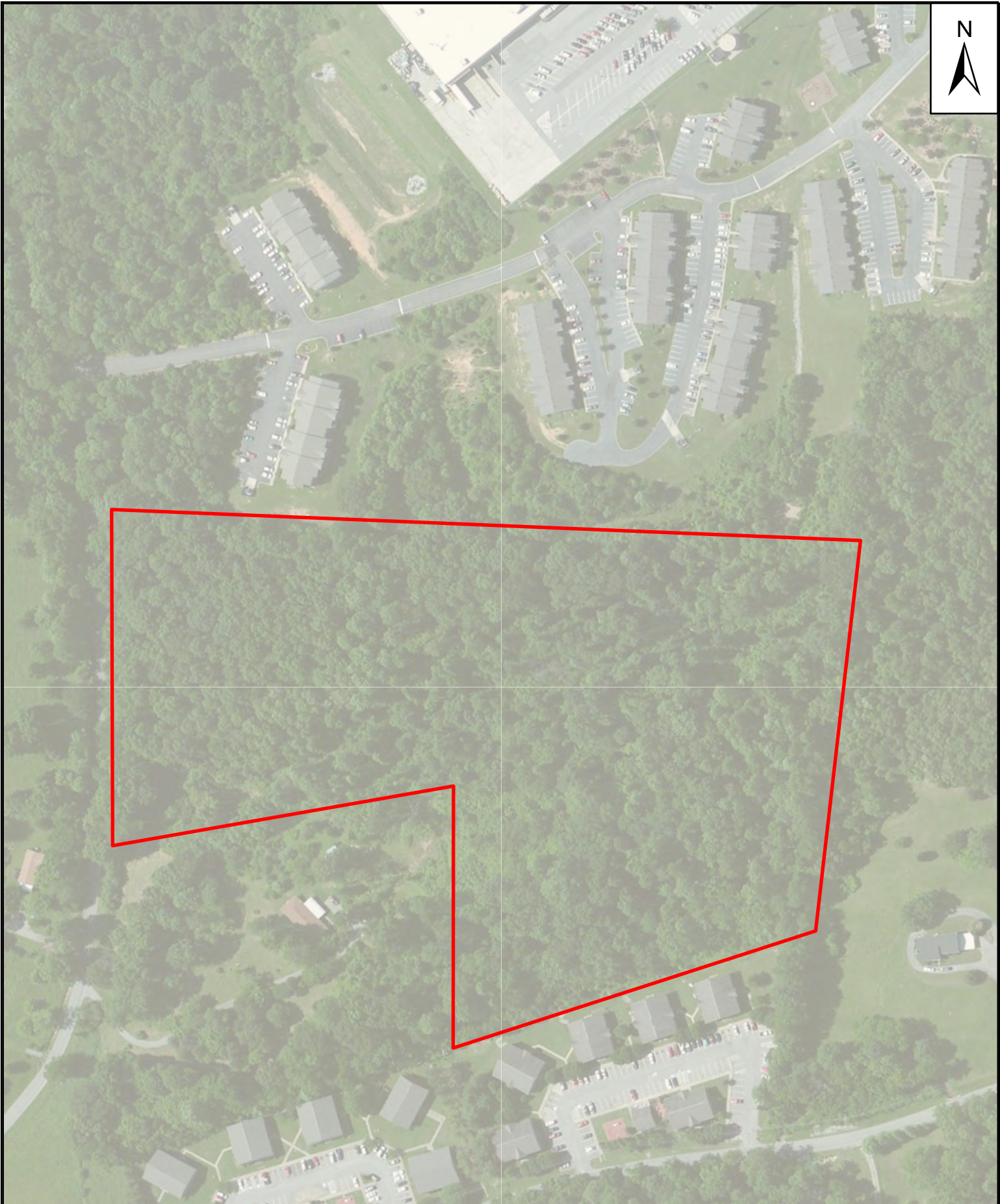
-  SINK
-  PROJECT BOUNDARY
-  UPLAND POINT
-  WET WEATHER CONVEYANCE (WWC)

0 200 400
SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

HYDROLOGICAL DETERMINATION MAP
841 COWAN ROAD
DICKSON COUNTY, TENNESSEE
APRIL 21, 2022





LEGEND

- | | |
|---|---|
|  PROJECT BOUNDARY |  Partially Hydric (51 - 75%) |
|  Not Hydric |  Partially Hydric (76 - 95%) |
|  Partially Hydric (1 - 25%) |  All Hydric |
|  Partially Hydric (26 - 50%) | |

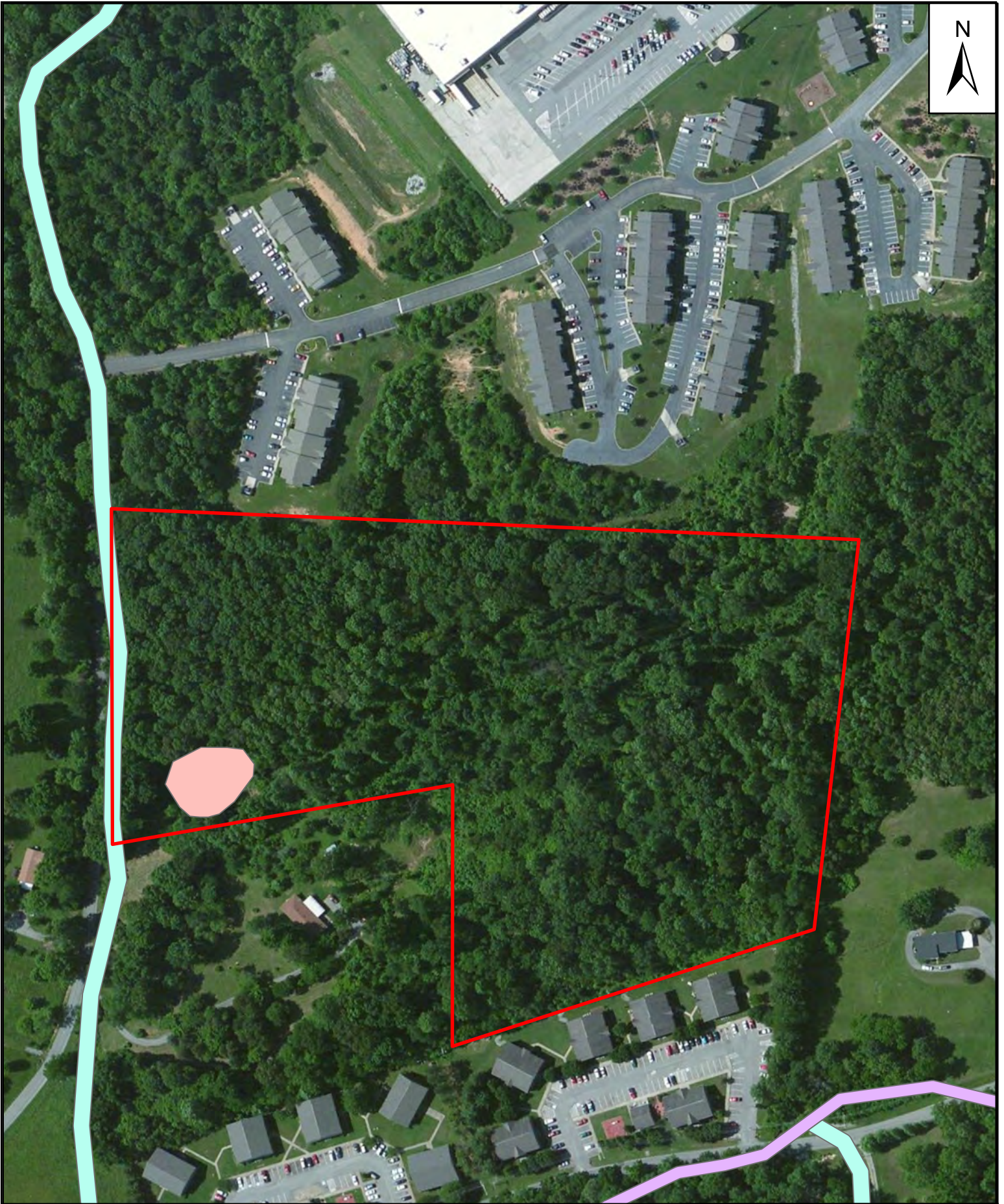
0 200 400

SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

HYDRIC SOIL MAP
841 COWAN ROAD
DICKSON COUNTY, TENNESSEE
APRIL 21, 2022





LEGEND

- | | |
|---|--|
|  PROJECT BOUNDARY |  Lake |
|  Freshwater Emergent Wetland |  Riverine |
|  Freshwater Forested/Shrub Wetland |  <all other values> |
|  Freshwater Pond | |

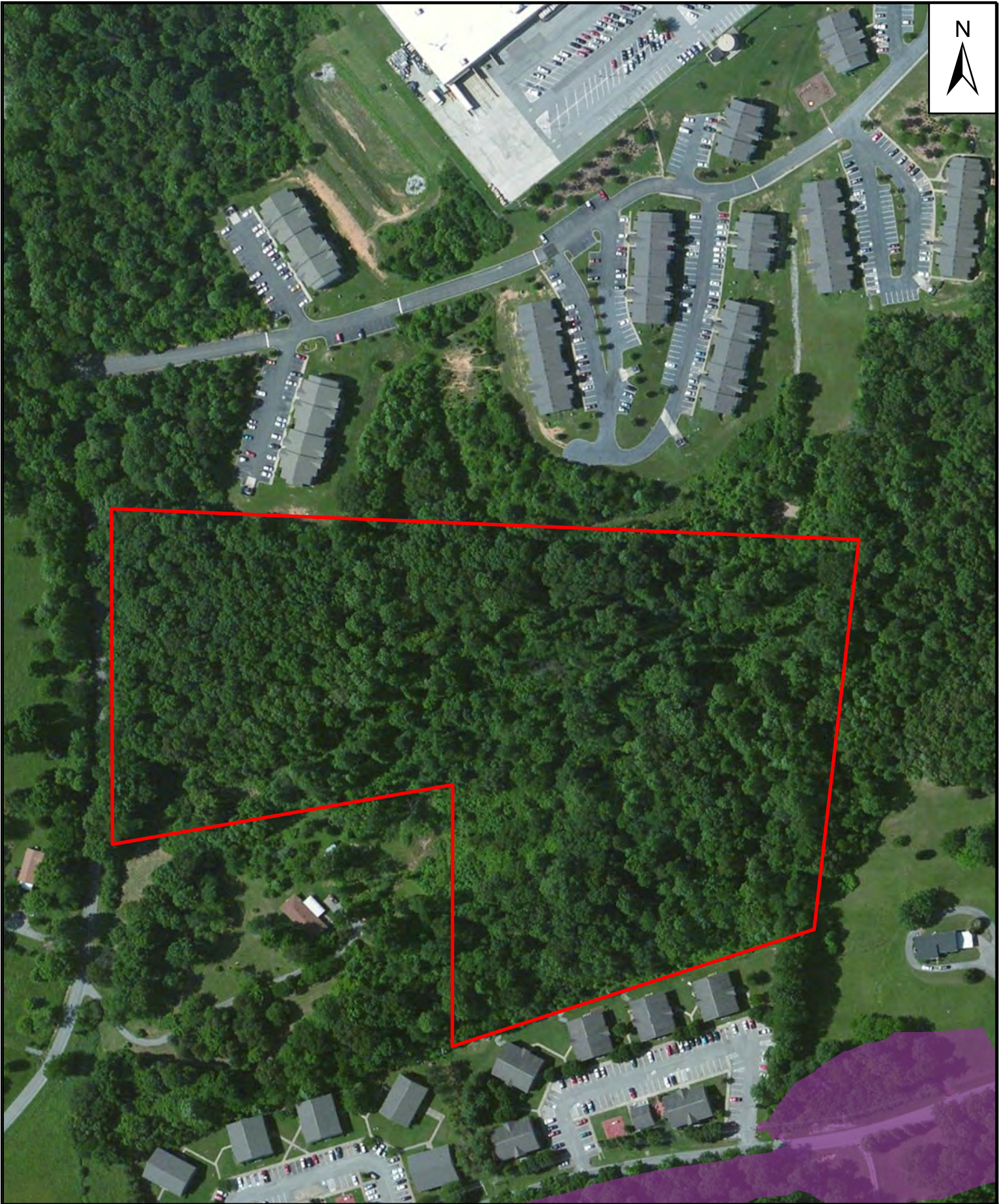
0 200 400

SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

NATIONAL WETLANDS INVENTORY MAP
841 COWAN ROAD
DICKSON COUNTY, TENNESSEE
APRIL 21, 2022





LEGEND

- PROJECT BOUNDARY
- 1% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee

0 200 400



SCALE IN FEET

Coordinate System: NAD 1983
State Plane Tennessee Feet

FLOOD HAZARD MAP
841 COWAN ROAD
DICKSON COUNTY, TENNESSEE
APRIL 21, 2022



**Datasheets
and
Photos**

Hydrologic Determination Field Data Sheet
Tennessee Division of Water Pollution Control, Version 1.5

Named Waterbody: <u>Unnamed</u>	Date/Time: <u>4/21/22</u> <u>1600 hrs</u>
Assessors/Affiliation: <u>C. Groom #1172-TN18/ D. Wilhite</u>	Project ID: <u>WWC1</u>
Site Name/Description: <u>841 Cowan Road</u>	
Site Location: <u>841 Cowan Road, Dickson, TN</u>	
HUC (12 digit): <u>060400030701</u>	Lat/Long: <u>36.055323, -87.380948</u>
Previous Rainfall (7-days): <u>3.50 in</u>	<u>36.055323, -87.380948</u>
Precipitation this Season vs. Normal: <u>abnormally wet</u> <u>elevated</u> <u>average</u> <u>low</u> <u>abnormally dry</u> <u>unknown</u>	
Source of recent & seasonal precip data: <u>Coco Rchs Station #TNDC-24</u>	
Watershed Size:	County: <u>Dickson</u>
Soil Type(s) / Geology: <u>Sandy gravelly silt loam 30 to 60% slopes</u>	Source: <u>USDA/NRCS</u>
Surrounding Land Use: <u>Residential</u>	
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe Moderate <u>Slight</u> Absent	

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	<u>X</u>	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species		<u>WWC</u>
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions		WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall		WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase		Stream
6. Presence of fish (except <i>Gambusia</i>)		Stream
7. Presence of naturally occurring ground water table connection		Stream
8. Flowing water in channel and 7 days since last precip in local watershed		Stream
9. Evidence watercourse has been used as a supply of drinking water		Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in *TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.*

Overall Hydrologic Determination = Under Weather Conveyance

Secondary Indicator Score (if applicable) =

Justification / Notes: Channel lacks bed and bank. Channel is covered in leaves and privet

PHOTOS
841 Cowan Road Property
Dickson County, Tennessee
April 21, 2022



Photo 1: Wet Weather Conveyance 1, looking upstream.
Coordinates: 36.055191. -87.380858



Photo 2: Wet Weather Conveyance 1, looking downstream.
Coordinates: 36.055191. -87.380858

Hydrologic Determination Field Data Sheet
Tennessee Division of Water Pollution Control, Version 1.5

Named Waterbody: <u>Unnamed</u>		Date/Time: <u>4/21/22</u> <u>1600hrs</u>
Assessors/Affiliation: <u>C. Graw #1172-TN18 / D. Wilhite</u>		Project ID: <u>WWC 2</u>
Site Name/Description: <u>841 Cowan Road</u>		
Site Location: <u>841 Cowan Road, Dickson, TN</u>		
HUC (12 digit): <u>060400030701</u>	Lat/Long: <u>36.056163, -87.309839</u>	
Previous Rainfall (7-days): <u>3.50 in</u>	<u>36.055457, -87.379552</u>	
Precipitation this Season vs. Normal: <u>abnormally wet</u> <u>elevated</u> <u>average</u> <u>low</u> <u>abnormally dry</u> <u>unknown</u>		
Source of recent & seasonal precip data: <u>Cowans Station #TN-DC-24</u>		
Watershed Size:	County: <u>Dickson</u>	
Soil Type(s) / Geology: <u>Sandy loam gravelly silt loam 30 to 60% slopes</u> Source: <u>USDA/NRCS</u>		
Surrounding Land Use: <u>Residential</u>		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe Moderate <u>Slight</u> Absent		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	<u>X</u>	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species		<u>WWC</u>
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions		WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall		WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase		Stream
6. Presence of fish (except <i>Gambusia</i>)		Stream
7. Presence of naturally occurring ground water table connection		Stream
8. Flowing water in channel and 7 days since last precip in local watershed		Stream
9. Evidence watercourse has been used as a supply of drinking water		Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.

Overall Hydrologic Determination = wet weather conveyance

Secondary Indicator Score (if applicable) =

Justification / Notes: No defined bed and bank.
Loticera japonica (FAUP) in conveyance

PHOTOS
841 Cowan Road Property
Dickson County, Tennessee
April 21, 2022



Photo 3: Wet Weather Conveyance 2, looking upstream.
Coordinates: 36.055620, -87.379545



Photo 4: Wet Weather Conveyance 2, looking downstream.
Coordinates: 36.055620, -87.379545

Hydrologic Determination Field Data Sheet
Tennessee Division of Water Pollution Control, Version 1.5

Named Waterbody: <u>Unnamed</u>	Date/Time: <u>4/21/22</u> 1600hrs.
Assessors/Affiliation: <u>C. Graw #1172-TN18/ D. Wilkie</u>	Project ID: <u>WWC 3</u>
Site Name/Description: <u>841 Cowan Road</u>	
Site Location: <u>841 Cowan Road, Dickson, TN</u>	
HUC (12 digit): <u>060400030701</u>	Lat/Long: <u>36.055924, -87.374007</u>
Previous Rainfall (7-days): <u>3.50 in</u>	<u>36.055924, -87.374007</u>
Precipitation this Season vs. Normal: abnormally wet elevated <u>average</u> low abnormally dry unknown	
Source of recent & seasonal precip data: <u>CoCoRehs station #TN-DC-24</u>	
Watershed Size:	County: <u>Dickson</u>
Soil Type(s) / Geology: <u>Sandy gravelly silt loam 30 to 60% slope</u>	Source: <u>USDA/NRCS</u>
Surrounding Land Use: <u>Residential</u>	
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe Moderate <u>Slight</u> Absent	

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	☒	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	☒	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	☒	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	☒	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	☒	Stream
6. Presence of fish (except <i>Gambusia</i>)	☒	Stream
7. Presence of naturally occurring ground water table connection	☒	Stream
8. Flowing water in channel and 7 days since last precip in local watershed	☒	Stream
9. Evidence watercourse has been used as a supply of drinking water	☒	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in *TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1*.

Overall Hydrologic Determination = Wet Weather Conveyance

Secondary Indicator Score (if applicable) = 7.5

Justification / Notes: (1) Lacking secondary indicators.

(2) Leaf litter throughout channel.

(3) Continuous bed and bank throughout most of reach but lacking other geomorphological indicators.

Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 4)		Absent	Weak	Moderate	Strong
1. Continuous bed and bank		0	1	(2)	3
2. Sinuous channel		0	(1)	2	3
3. In-channel structure: riffle-pool sequences		(0)	1	2	3
4. Sorting of soil textures or other substrate		(0)	1	2	3
5. Active/relic floodplain		(0)			
6. Depositional bars or benches		(0)	1	2	3
7. Braided channel		(0)	1	2	3
8. Recent alluvial deposits		(0)	0.5	1	1.5
9. Natural levees		(0)	1	2	3
10. Headcuts		(0)	1	2	3
11. Grade controls		(0)	0.5	1	1.5
12. Natural valley or drainageway		0	0.5	(1)	1.5
13. At least second order channel on existing USGS or NRCS map		No = 0		Yes = 3	

B. Hydrology (Subtotal = 1.5)		Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel		(0)	1	2	3
15. Water in channel and >48 hours since sig. rain		(0)	1	2	3
16. Leaf litter in channel (January – September)		1.5	1	0.5	(0)
17. Sediment on plants or on debris		(0)	0.5	1	1.5
18. Organic debris lines or piles (wrack lines)		0	(0.5)	1	1.5
19. Hydric soils in channel bed or sides of channel		No = 0		Yes = 1.5	

C. Biology (Subtotal = 3)		Absent	Weak	Moderate	Strong
20. Fibrous roots in		3	2	(1)	0
21. Rooted plants in		3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)		(0)			
23. Bivalves/mussels		(0)	1	2	3
24. Amphibians		(0)	0.5	1	1.5
25. Macroinvertebrates (record type & abundance)		(0)	1	2	3
26. Filamentous algae; periphyton		(0)	1	2	3
27. Iron oxidizing bacteria/fungus		(0)	0.5	1	1.5
28. Wetland plants in		(0)	0.5	1	

¹ Focus is on the presence of plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 7.5

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes: (1) Bed and bank observed throughout most of reach with some tapering at end of reach.

(2) Little hydrology (No water in channel, leaves throughout the channel)

(3) Some fibrous roots, weak rooted plants.

PHOTOS
841 Cowan Road Property
Dickson County, Tennessee
April 21, 2022



Photo 5: Wet Weather Conveyance 3, looking upstream
Coordinates: 36.055626, -87.379199



Photo 6: Wet Weather Conveyance 3, looking downstream
Coordinates: 36.055626, -87.379199

Hydrologic Determination Field Data Sheet Tennessee Division of Water Pollution Control, Version 1.5

Named Waterbody: <u>Unnamed</u>		Date/Time: <u>4/21/12</u> <u>1600hrs</u>
Assessors/Affiliation: <u>C. Graw #1172-TN18 / D. Wilhite</u>		Project ID:
Site Name/Description: <u>841 Cowan Road</u>		<u>WWC4</u>
Site Location: <u>841 Cowan Road, Dickson, TN</u>		
HUC (12 digit): <u>060400030701</u>		Lat/Long: <u>36.057134, -87.37573</u>
Previous Rainfall (7-days): <u>3.50 in</u>		<u>36.05713, -87.37573</u>
Precipitation this Season vs. Normal: <u>abnormally wet</u> <u>elevated</u> <u>average</u> <u>low</u> <u>abnormally dry</u> <u>unknown</u>		
Source of recent & seasonal precip data: <u>Edgar Rch. station # TN-DC-24</u>		
Watershed Size:		County: <u>Dickson</u>
Soil Type(s) / Geology: <u>Sandy gravelly silt loam 30 to 60% slope</u>		Source: <u>USDA/NRCS</u>
Surrounding Land Use: <u>Residential</u>		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe Moderate <u>Slight</u> Absent		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	☒	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	☒	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	☒	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	☒	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	☒	Stream
6. Presence of fish (except <i>Gambusia</i>)	☒	Stream
7. Presence of naturally occurring ground water table connection	☒	Stream
8. Flowing water in channel and 7 days since last precip in local watershed	☒	Stream
9. Evidence watercourse has been used as a supply of drinking water	☒	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.

Overall Hydrologic Determination = Wet Weather Conveyance

Secondary Indicator Score (if applicable) = 16.5

Justification / Notes: Low Secondary indicator score

(1) Major geomorphological indicators

(2) Lacking hydrology

(3) Lacking biology

Secondary Field Indicator Evaluation

WWC 4

A. Geomorphology (Subtotal = 11)				
	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	2	(3)
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	0	(1)	2	3
4. Sorting of soil textures or other substrate	0	1	2	3
5. Active/relic floodplain	(0)			
6. Depositional bars or benches	0	(1)	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	0	(0.5)	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	2	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	No = 0		Yes = 3	

B. Hydrology (Subtotal = 2)				
	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	1.5	(1)	0.5	0
17. Sediment on plants or on debris	(0)	0.5	1	1.5
18. Organic debris lines or piles (wrack lines)	0	0.5	(1)	1.5
19. Hydric soils in channel bed or sides of channel	No = 0		Yes = 1.5	

C. Biology (Subtotal = 3.5)				
	Absent	Weak	Moderate	Strong
20. Fibrous roots in	3	2	(1)	0
21. Rooted plants in	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)			
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macroinvertebrates (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28. Wetland plants in	(0)	0.5	1	

¹ Focus is on the presence of plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 16.5

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes : (1) Continuous bed and bank well defined.
 (2) Some sorting but still weak to moderate

PHOTOS
841 Cowan Road Property
Dickson County, Tennessee
April 21, 2022



Photo 7: Wet Weather Conveyance 4, looking upstream
Coordinates: 36.380676, -87.380676



Photo 8: Wet Weather Conveyance 4, looking downstream
Coordinates: 36.380676, -87.380676

Hydrologic Determination Field Data Sheet Tennessee Division of Water Pollution Control, Version 1.5

Named Waterbody: <u>Unnamed</u>		Date/Time: <u>4/21/22</u>
Assessors/Affiliation: <u>C. Grow #1172-TN18 / D. Wilhite</u>		Project ID:
Site Name/Description: <u>841 Cowan Road</u>		<u>WWC 5</u>
Site Location: <u>841 Cowan Road, Dickson, TN</u>		
HUC (12 digit): <u>060400030701</u>	Lat/Long: <u>36.087172, -87.38253</u>	
Previous Rainfall (7-days): <u>3.50 in</u>	<u>36.086565, -87.381054</u>	
Precipitation this Season vs. Normal: <u>abnormally wet</u> <u>elevated</u> <u>average</u> <u>low</u> <u>abnormally dry</u> <u>unknown</u>		
Source of recent & seasonal precip data: <u>CoCoRahr Station #TN-DG-24</u>		
Watershed Size:	County: <u>Dickson</u>	
Soil Type(s) / Geology: <u>Sengtan gravelly silt loam 30 to 60 percent slope</u>	Source: <u>USDA/NRCS</u>	
Surrounding Land Use: <u>Residential</u>		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe Moderate <u>Slight</u> Absent		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	☒	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	☒	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	☒	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	☒	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	☒	Stream
6. Presence of fish (except <i>Gambusia</i>)	☒	Stream
7. Presence of naturally occurring ground water table connection	☒	Stream
8. Flowing water in channel and 7 days since last precip in local watershed	☒	Stream
9. Evidence watercourse has been used as a supply of drinking water	☒	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in *TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1*.

Overall Hydrologic Determination = Wet Weather Conveyance

Secondary Indicator Score (if applicable) = 11.5

Justification / Notes: Low secondary indicators

(1) Stronger geomorphological indicators

(2) Lacking hydrological and biological indicators

Secondary Field Indicator Evaluation

WNC 5

A. Geomorphology (Subtotal = 8)				
	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	0	(1)	2	3
4. Sorting of soil textures or other substrate	0	1	(2)	3
5. Active/relic floodplain	(0)			
6. Depositional bars or benches	(0)	1	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	(0)	0.5	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	(2)	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	(1)	1.5
13. At least second order channel on existing USGS or NRCS map	No = 0		Yes = 3	

B. Hydrology (Subtotal = 5)				
	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January - September)	1.5	1	(0.5)	0
17. Sediment on plants or on debris	(0)	0.5	1	1.5
18. Organic debris lines or piles (wrack lines)	(0)	0.5	1	1.5
19. Hydric soils in channel bed or sides of channel	No = 0		Yes = 1.5	

C. Biology (Subtotal = 3)				
	Absent	Weak	Moderate	Strong
20. Fibrous roots in	3	2	(1)	0
21. Rooted plants in	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)			
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macroinvertebrates (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28. Wetland plants in	(0)	0.5	1	

¹ Focus is on the presence of plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 11.5

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes : (1) Defined continuous bed and bank
 (2) Headcuts present
 (3) Some leaf litter in channel
 (4) Few rooted plants, moderate fibrous roots

PHOTOS
841 Cowan Road Property
Dickson County, Tennessee
April 21, 2022



Photo 9: Wet Weather Conveyance 5, looking upstream
Coordinates: 36.056962, -87.381263



Photo 10: Wet Weather Conveyance 5, looking downstream
Coordinates: 36.056962, -87.381263

Hydrologic Determination Field Data Sheet Tennessee Division of Water Pollution Control, Version 1.5

Named Waterbody: <u>Unnamed</u>		Date/Time: <u>4/21/22</u> 1600hrs.
Assessors/Affiliation: <u>C. Graw #172-TN18 D. White</u>		Project ID : <u>WWC 6</u>
Site Name/Description: <u>841 Cowan Road</u>		
Site Location: <u>841 Cowan Road, Dickson, TN</u>		
HUC (12 digit): <u>060400030701</u>		Lat/Long: <u>36.052193, -87.382858</u>
Previous Rainfall (7-days): <u>3.50</u>		<u>36.055836, -87.38829</u>
Precipitation this Season vs. Normal : abnormally wet elevated <u>average</u> low abnormally dry unknown		
Source of recent & seasonal precip data : <u>CoCoRahs Station # TN-DC-24</u>		
Watershed Size :		County: <u>Dickson</u>
Soil Type(s) / Geology : <u>Sensata gravelly silt loam 30 to 60% slope</u>		Source: <u>USDA/NRCS</u>
Surrounding Land Use : <u>Residential</u>		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) : Severe Moderate <u>Slight</u> Absent		

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	☒	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	☒	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	☒	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	☒	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase	☒	Stream
6. Presence of fish (except <i>Gambusia</i>)	☒	Stream
7. Presence of naturally occurring ground water table connection	☒	Stream
8. Flowing water in channel and 7 days since last precip in local watershed	☒	Stream
9. Evidence watercourse has been used as a supply of drinking water	☒	Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.

Overall Hydrologic Determination = Wet weather conveyance

Secondary Indicator Score (if applicable) = 18

Justification / Notes : Adjacent to road. Disappears off site downstream.
Channel dry even with 3.5" in 7 days.

Secondary Field Indicator Evaluation

WNC 6

A. Geomorphology (Subtotal = 11.5)				
	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	2	(3)
2. Sinuous channel	0	(1)	2	3
3. In-channel structure: riffle-pool sequences	0	(1)	2	3
4. Sorting of soil textures or other substrate	0	1	(2)	3
5. Active/relic floodplain	(0)			
6. Depositional bars or benches	0	(1)	2	3
7. Braided channel	(0)	1	2	3
8. Recent alluvial deposits	(0)	0.5	1	1.5
9. Natural levees	(0)	1	2	3
10. Headcuts	0	1	(2)	3
11. Grade controls	(0)	0.5	1	1.5
12. Natural valley or drainageway	0	0.5	1	(1.5)
13. At least second order channel on existing USGS or NRCS map	(No = 0)		Yes = 3	

B. Hydrology (Subtotal = 2.5)				
	Absent	Weak	Moderate	Strong
14. Subsurface flow/discharge into channel	(0)	1	2	3
15. Water in channel and >48 hours since sig. rain	(0)	1	2	3
16. Leaf litter in channel (January – September)	(1.5)	1	0.5	0
17. Sediment on plants or on debris	(0)	0.5	1	1.5
18. Organic debris lines or piles (wrack lines)	0	0.5	(1)	1.5
19. Hydric soils in channel bed or sides of channel	(No = 0)		Yes = 1.5	

C. Biology (Subtotal = 4)				
	Absent	Weak	Moderate	Strong
20. Fibrous roots in	3	(2)	1	0
21. Rooted plants in	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)			
23. Bivalves/mussels	(0)	1	2	3
24. Amphibians	(0)	0.5	1	1.5
25. Macroinvertebrates (record type & abundance)	(0)	1	2	3
26. Filamentous algae; periphyton	(0)	1	2	3
27. Iron oxidizing bacteria/fungus	(0)	0.5	1	1.5
28. Wetland plants in	(0)	0.5	1	

¹ Focus is on the presence of plants.

² Focus is on the presence of aquatic or wetland plants.

Total Points = 18

Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points

Notes : (1) High geomorphological indicators (Strong defined continuous bed and bank, moderate sorting).
 (2.) Absent leaf litter
 (3.) moderate wrack lines

PHOTOS
841 Cowan Road Property
Dickson County, Tennessee
April 21, 2022



Photo 11: Wet Weather Conveyance 6, looking upstream
Coordinates: 36.056422, -87.382829



Photo 12: Wet Weather Conveyance 6, looking downstream
Coordinates: 36.056422, -87.382829

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 841 Cowan Road City/County: Dickson/Dickson Sampling Date: 4/21/22
 Applicant/Owner: _____ State: TN Sampling Point: NW-1
 Investigator(s): C. Grew #1172-TN18/D.W.H. Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): Concave Slope (%): 5
 Subregion (LRR or MLRA): LRR Lat: 36.055989 Long: -87.382137 Datum: _____
 Soil Map Unit Name: Sengstown gravelly silt loam, 30 to 60% slope NWI classification: Freshwater Pond
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation N Soil N or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: <u>water is flowing down channel and then draining into a sink.</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ☐ Surface Water (A1) ☐ True Aquatic Plants (B14) ☐ High Water Table (A2) ☐ Hydrogen Sulfide Odor (C1) ☐ Saturation (A3) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Water Marks (B1) ☐ Presence of Reduced Iron (C4) ☐ Sediment Deposits (B2) ☐ Recent Iron Reduction in Tilled Soils (C6) ☒ Drift Deposits (B3) ☐ Thin Muck Surface (C7) ☐ Algal Mat or Crust (B4) ☐ Other (Explain in Remarks) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13)		<u>Secondary Indicators (minimum of two required)</u> ☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☒ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☐ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: <u>Drift deposit indicate water flowing into non wetland and then draining into sink</u>		

VEGETATION (Four Strata) – Use scientific names of plants.

 Sampling Point: NW-1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>0</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>45</u> x 3 = <u>135</u> FACU species <u>15</u> x 4 = <u>60</u> UPL species _____ x 5 = _____ Column Totals: <u>60</u> (A) <u>195</u> (B) Prevalence Index = B/A = <u>3.25</u>
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover 50% of total cover: _____ 20% of total cover: _____				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% ☐ 3 - Prevalence Index is ≤3.0 ¹ ☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain)
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	<u>35</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
_____ = Total Cover 50% of total cover: <u>N</u> 20% of total cover: <u>Y</u>				Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
Herb Stratum (Plot size: <u>15'</u>)				
1. <u>Rumex crispus</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
2. <u>Parthenocissus quinquefolia</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
3. <u>Viola sororia</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
4. <u>Solidago caesia</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
_____ = Total Cover 50% of total cover: <u>N</u> 20% of total cover: <u>Y</u>				Woody Vine Stratum (Plot size: _____)
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	Remarks: (Include photo numbers here or on a separate sheet.) <u>(1) All plant species present are either FACU or FAC.</u> <u>(2) No hydrophytic vegetation present.</u>
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
_____ = Total Cover 50% of total cover: _____ 20% of total cover: _____				

Sampling Point: NW-1

[illegible]²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**MLRA 147, 148**)
- ___ Thin Dark Surface (S9) (**MLRA 147, 148**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) (**LRR N, MLRA 136**)
- ___ Umbric Surface (F13) (**MLRA 136, 122**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 148**)
- ___ Red Parent Material (F21) (**MLRA 127, 147**)

- 2 cm Muck (A10) (MLRA 147)
 — Coast Prairie Redox (A16)
 (MLRA 147, 148)
 — Piedmont Floodplain Soils (F19)
 (MLRA 136, 147)
 — Very Shallow Dark Surface (TF12)
 Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes _____ No ☒

Remarks:

So I had no redox occurring.

PHOTOS
841 Cowan Road Property
Dickson County, Tennessee
April 21, 2022



Photo 13: Soils at NW_1
Coordinates: 36.055989, -87.382137



Photo 14: Overview of NW_1
Coordinates: 36.055989, -87.382137

Rain Data

Normal Weather Conditions Calculations Table

481 Cowan Road.

Station #TN-DC-24

		Long-term rainfall records								
	Month	Standard Deviation	Minus One Std. Dev. (DRY)	Normal (Mean inches)	Plus One Std. Dev. (WET)	Actual Rainfall	Condition (elevated, low, average)	Condition value	Month weight value	Product of previous two columns
1 st prior month*	March 2022	2.35	3.45	5.32	7.67	5.13	Average	2	3	6
2 nd prior month*	February 2022	2.25	2.16	4.41	6.66	11.87	Elevated	3	2	6
3 rd prior month*	January 2022	2.65	1.83	4.48	7.13	5.85	Average	2	1	2
									Sum =	14

Note: The period has been normal.

If sum is:	
6-9	then prior period has been abnormally dry
10-14	then prior period has been normal (average)
15-18	Then prior period has been abnormally wet

Condition value:	
Low =	1
Average =	2
Elevated =	3



View Data : Station Report Summary US Units ▾

View Data

- [Daily Precip Reports](#)
- [Daily Comments Reports](#)
- [Significant Weather Reports](#)
- [Multiple Day Reports](#)
- [Condition Monitoring Reports](#)
- [Condition Monitoring Charts](#)
- [Soil Moisture](#)
- [ET Reports](#)

- [Days with Hail](#)
- [Search Hail Reports](#)
- [Station Hail Reports](#)
- [Station Precip Summary](#)

- [Water Year Summary](#)
- [Station Precip Summary](#)
- [Station Snow Summary](#)
- [Rainy Days Report](#)
- [Total Precip Summary](#)

- [Station Water Balance](#)
- [Water Balance Summary](#)
- [Water Balance Charts](#)

- [List Stations](#)

FROST Data

- [Frost](#)
- [Optics](#)
- [Snowflake](#)
- [Thunder](#)

Main Menu

- [Home](#)
- [About Us](#)
- [Join CoCoRaHS](#)
- [Contact Us](#)
- [Donate](#)

Resources

- [FAQ / Help](#)
- [Education](#)
- [Training Slide-Shows](#)
- [Videos](#)
- [Condition Monitoring](#)
- [Evapotranspiration](#)
- [Soil Moisture](#)
- [NCEI Normals](#)

- [Volunteer Coordinators](#)
- [Hail Pad](#)
- [Distribution/Drop-off](#)
- [Help Needed](#)
- [Printable Forms](#)

- [The Catch](#)
- [Message of the Day](#)
- [Publications](#)
- [CoCoRaHS Blog](#)
- [Web Groups](#)
- [State Newsletters](#)
- [Master Gardener Guide](#)
- [State Climate Series](#)
- [March Madness](#)

Station Report Summary

Station 1 : TN-DC-24 Example: CO-LR-273

Station 2 :

Station 3 :

Start Date: **End Date:**

Stations:

TN-DC-24
Dickson 6.3 WSW
Lat: 36.02648
Lon: -87.47071

* indicates Multi-Day Accumulation Report

Station TN-DC-24

Date	Precip in.
04/13/2022	0.29
04/14/2022	1.44
04/15/2022	--
04/16/2022	0.82
04/17/2022	--
04/18/2022	0.95
04/19/2022	--
04/20/2022	--
Totals :	3.50 in.

View Data : Station Report Summary US Units ▾

View Data

- [Daily Precip Reports](#)
- [Daily Comments Reports](#)
- [Significant Weather Reports](#)
- [Multiple Day Reports](#)
- [Condition Monitoring Reports](#)
- [Condition Monitoring Charts](#)
- [Soil Moisture](#)
- [ET Reports](#)

- [Days with Hail](#)
- [Search Hail Reports](#)
- [Station Hail Reports](#)
- [Station Precip Summary](#)

- [Water Year Summary](#)
- [Station Precip Summary](#)
- [Station Snow Summary](#)
- [Rainy Days Report](#)
- [Total Precip Summary](#)

- [Station Water Balance](#)
- [Water Balance Summary](#)
- [Water Balance Charts](#)

- [List Stations](#)

FROST Data

- [Frost](#)
- [Optics](#)
- [Snowflake](#)
- [Thunder](#)

Main Menu

- [Home](#)
- [About Us](#)
- [Join CoCoRaHS](#)
- [Contact Us](#)
- [Donate](#)

Resources

- [FAQ / Help](#)
- [Education](#)
- [Training Slide-Shows](#)
- [Videos](#)
- [Condition Monitoring](#)
- [Evapotranspiration](#)
- [Soil Moisture](#)
- [NCEI Normals](#)
- [Volunteer Coordinators](#)
- [Hail Pad](#)
- [Distribution/Drop-off](#)
- [Help Needed](#)
- [Printable Forms](#)
- [The Catch](#)
- [Message of the Day](#)
- [Publications](#)
- [CoCoRaHS Blog](#)
- [Web Groups](#)
- [State Newsletters](#)
- [Master Gardener Guide](#)
- [State Climate Series](#)
- [March Madness](#)

Station Report Summary

Station 1 : TN-DC-24 Example: CO-LR-273

Station 2 :

Station 3 :

Start Date: **End Date:**

Stations:

TN-DC-24
 Dickson 6.3 WSW
 Lat: 36.02648
 Lon: -87.47071

* indicates Multi-Day Accumulation Report

Station **TN-DC-24**

Date	Precip in.
03/01/2022	0.00
03/02/2022	0.00
03/03/2022	0.00
03/04/2022	0.00
03/05/2022	0.00
03/06/2022	0.00
03/07/2022	0.54
03/08/2022	0.06
03/09/2022	0.29
03/10/2022	0.00
03/11/2022	0.00
03/12/2022	0.37
03/13/2022	0.00
03/14/2022	0.00
03/15/2022	0.03
03/16/2022	0.07
03/17/2022	0.03
03/18/2022	0.04
03/19/2022	0.31
03/20/2022	0.00
03/21/2022	0.00
03/22/2022	0.00
03/23/2022	2.29
03/24/2022	0.02
03/25/2022	0.00
03/26/2022	0.00
03/27/2022	0.00
03/28/2022	0.00
03/29/2022	0.00
03/30/2022	0.00
03/31/2022	1.08
Totals :	5.13 in.

View Data : Station Report Summary US Units ▾

View Data

- [Daily Precip Reports](#)
- [Daily Comments Reports](#)
- [Significant Weather Reports](#)
- [Multiple Day Reports](#)
- [Condition Monitoring Reports](#)
- [Condition Monitoring Charts](#)
- [Soil Moisture](#)
- [ET Reports](#)

- [Days with Hail](#)
- [Search Hail Reports](#)
- [Station Hail Reports](#)
- [Station Precip Summary](#)

- [Water Year Summary](#)
- [Station Precip Summary](#)
- [Station Snow Summary](#)
- [Rainy Days Report](#)
- [Total Precip Summary](#)

- [Station Water Balance](#)
- [Water Balance Summary](#)
- [Water Balance Charts](#)

- [List Stations](#)

FROST Data

- [Frost](#)
- [Optics](#)
- [Snowflake](#)
- [Thunder](#)

Main Menu

- [Home](#)
- [About Us](#)
- [Join CoCoRaHS](#)
- [Contact Us](#)
- [Donate](#)

Resources

- [FAQ / Help](#)
- [Education](#)
- [Training Slide-Shows](#)
- [Videos](#)
- [Condition Monitoring](#)
- [Evapotranspiration](#)
- [Soil Moisture](#)
- [NCEI Normals](#)

- [Volunteer Coordinators](#)
- [Hail Pad](#)
- [Distribution/Drop-off](#)
- [Help Needed](#)
- [Printable Forms](#)

- [The Catch](#)
- [Message of the Day](#)
- [Publications](#)
- [CoCoRaHS Blog](#)
- [Web Groups](#)
- [State Newsletters](#)
- [Master Gardener Guide](#)
- [State Climate Series](#)
- [March Madness](#)

Station Report Summary

Station 1 : TN-DC-24 Example: CO-LR-273

Station 2 :

Station 3 :

Start Date: **End Date:**

Stations:

TN-DC-24
 Dickson 6.3 WSW
 Lat: 36.02648
 Lon: -87.47071

* indicates Multi-Day Accumulation Report

Station TN-DC-24

Date	Precip in.
02/01/2022	0.00
02/02/2022	0.32
02/03/2022	1.13
02/04/2022	1.91
02/05/2022	T
02/06/2022	0.00
02/07/2022	0.00
02/08/2022	0.00
02/09/2022	0.00
02/10/2022	0.00
02/11/2022	0.00
02/12/2022	0.00
02/13/2022	0.00
02/14/2022	0.00
02/15/2022	0.00
02/16/2022	0.00
02/17/2022	0.58
02/18/2022	1.86
02/19/2022	0.00
02/20/2022	0.00
02/21/2022	0.00
02/22/2022	0.23
02/23/2022	3.42
02/24/2022	1.42
02/25/2022	0.93
02/26/2022	0.00
02/27/2022	0.07
02/28/2022	0.00
Totals :	11.87 in.

View Data : Station Report Summary US Units ▾

View Data

- [Daily Precip Reports](#)
- [Daily Comments Reports](#)
- [Significant Weather Reports](#)
- [Multiple Day Reports](#)
- [Condition Monitoring Reports](#)
- [Condition Monitoring Charts](#)
- [Soil Moisture](#)
- [ET Reports](#)

- [Days with Hail](#)
- [Search Hail Reports](#)
- [Station Hail Reports](#)
- [Station Precip Summary](#)

- [Water Year Summary](#)
- [Station Precip Summary](#)
- [Station Snow Summary](#)
- [Rainy Days Report](#)
- [Total Precip Summary](#)

- [Station Water Balance](#)
- [Water Balance Summary](#)
- [Water Balance Charts](#)

- [List Stations](#)

FROST Data

- [Frost](#)
- [Optics](#)
- [Snowflake](#)
- [Thunder](#)

Main Menu

- [Home](#)
- [About Us](#)
- [Join CoCoRaHS](#)
- [Contact Us](#)
- [Donate](#)

Resources

- [FAQ / Help](#)
- [Education](#)
- [Training Slide-Shows](#)
- [Videos](#)
- [Condition Monitoring](#)
- [Evapotranspiration](#)
- [Soil Moisture](#)
- [NCEI Normals](#)
- [Volunteer Coordinators](#)
- [Hail Pad](#)
- [Distribution/Drop-off](#)
- [Help Needed](#)
- [Printable Forms](#)
- [The Catch](#)
- [Message of the Day](#)
- [Publications](#)
- [CoCoRaHS Blog](#)
- [Web Groups](#)
- [State Newsletters](#)
- [Master Gardener Guide](#)
- [State Climate Series](#)
- [March Madness](#)

Station Report Summary

Station 1 : TN-DC-24 Example: CO-LR-273

Station 2 :

Station 3 :

Start Date: 1/1/2022 **End Date:** 1/31/2022

Stations:

TN-DC-24
 Dickson 6.3 WSW
 Lat: 36.02648
 Lon: -87.47071

* indicates Multi-Day Accumulation Report

Station TN-DC-24

Date	Precip in.
01/01/2022	0.00
01/02/2022	1.03
01/03/2022	0.45
01/04/2022	0.00
01/05/2022	0.00
01/06/2022	0.00
01/07/2022	0.47
01/08/2022	0.00
01/09/2022	0.50
01/10/2022	1.00
01/11/2022	0.00
01/12/2022	0.00
01/13/2022	0.00
01/14/2022	0.00
01/15/2022	0.05
01/16/2022	0.94
01/17/2022	0.25
01/18/2022	0.00
01/19/2022	0.05
01/20/2022	1.07
01/21/2022	0.00
01/22/2022	0.00
01/23/2022	0.00
01/24/2022	0.00
01/25/2022	0.00
01/26/2022	0.00
01/27/2022	0.00
01/28/2022	0.00
01/29/2022	0.04
01/30/2022	0.00
01/31/2022	0.00
Totals :	5.85 in.

Attachment 2

Property Access Permission Letter

841 Cowan Road

Date: 5/23/22

Division of Water Resources
Tennessee Department of Environment and Conservation (TDEC)
711 R.S. Gass Boulevard
Nashville, TN 37216

RE: Permission to Access Property for Hydrologic Determination of 841 Cowan Road (Dickson County)

TDEC has my permission to access the property located at 841 Cowan Road (Parcel ID 110 066.00) as referenced in the Hydrologic Determination Report conducted by Mr. Christopher Grow.

Please contact me via my cell phone or email if you have any questions.

Sincerely,

Company Name (if applicable): Pennock Place LLC

Name: Tony Cavender, Member

Signature: 

Address: P.O. Box 764, Fairview, TN 37062 / 841 Cowan Rd
Dickson, TN

Phone: (615) 218-5569

Email: cavenderm@bellsouth.net

Cc: Christopher Grow, TNQHP