

Date: April 13, 2020

Tennessee Department of Environmental and Conservation  
Division of Water Resources  
Jackson Environmental Field Office  
1625 Hollywood Drive  
Jackson, TN 38305

RE: Hydrologic Determination Report  
Tony Nguyen Chicken Barns  
Greenfield, Weakley County, Tennessee

On April 3, 2020 a hydrologic determination was conducted on three channels where Tony Nguyen is awaiting to construct Tyson chicken barns. Site 1 is located approximately 1300 feet southwest from the intersection of Shafter Road and TN Highway 124. Site 2 and Site 3 are located approximately 1800 feet south of the intersection of Shafter Road and TN Highway 124.

### **SITE INFORMATION**

Site 1 project area flows west through mature timber. The east half of the site has row crop fields on both sides.

Site 1 Coordinates:

LAT: 36.156872, LON: -88.751053 to LAT: 36.156609, LON: -88.753342.

Site 2 and Site 3 project areas flows south to a larger stream. These two areas also flows through mature timber.

Site 2 Coordinates:

LAT: 36.154622, LON: -88.749814 to LAT: 36.153150, LON: -88.750039.

Site 3 Coordinates:

LAT: 36.1551211, LON: -88.7472679 to LAT: 36.153147, LON: -88.747315.

This project area lies within the South Forked Obion (HUC: 080102030302). Overall the project looks to catch a large amount of runoff from the no till crop fields. Site 3 on the other hand seems to be spring fed from a wetland area northeast of the site area. The soil type for Site 1, Site 2, and Site 3 is Loring Silt Loam with 8% to 12% slopes as you will see on the Soil Map below.

Site 1 is located on Tax Map 157, Parcel 47. Site 2 is located on Tax Map 157, Parcel 47.04. Site 3 is located on Tax Map 157, Parcel 47.05, all according to the Weakley County Property Assessor. Tax Map is shown below.

## **CONTACT INFORMATION**

Owners:

Site 1, Donald Perkins  
620 Wesley Chapel Road  
Dresden, TN 38225

Site 2, Hahn Tien LLC  
85 Red Slough Road  
Haworth, OK 74740

Site 3, Nancy Doan  
85 Red Slough Road  
Haworth, OK 74740

Primary Contact:

Mason Peale  
L.I. Smith and Associates Inc.  
302 North Caldwell Street  
Paris, TN 38242  
731-644-1014

## **WEATHER CONDITIONS**

Based upon the amount of rainfall received during the last three months prior to the site determination, this determination was performed during normal weather conditions. All three of these sites had received 0.75 inches of rainfall on March 31, 2020, that is three days before this determination was conducted. For your reference, calculations used to determine the weather conditions, using page 12 of the State of Tennessee's Hydrologic determination guidance, are included.

## **METHODS**

The channels were determined using the Hydrologic Determination Field Data Sheet of Tennessee Division of Water Pollution Control, Version 1.5. The Channels were observed and evaluated based upon geomorphic, hydrological, and biological characteristics that were observed during this site determination. Photos documenting the appearance of the channels are provided below.

## **PROPOSED ALTERATIONS**

As shown on the enclosed plans below, two Tyson chicken barns are waiting to be constructed near all three sites.

## **RESULTS**

### **Site 1**

Site 1, the northernmost site scored a 27.25 according to Secondary Field Indicators Evaluation. Overall looks like a stream. The majority of this site has a pretty well defined bed and bank. This stream intersects a wet weather conveyance at approximate coordinates of LAT: 36.156970 and LON: -88.751446. Where it intersects, the thalweg is covered by an abundance of briars, but remains clear as it flows through. This site also has quite a few large grade controls and very little fibrous roots or rooted plants in the streambed. The scoresheets will supply greater detail on what was observed in this determination.

### **Site 2**

Site 2, the middle site, is a dense wooded area. The stream begins at approximate coordinates of LAT: 36.153923 and LON: -88.749980 and ends at approximate coordinates of LAT: 36.153150 and LON: -88.749980. The beginning of this determination is a wet weather conveyance and is believed to become a stream near a small grade control where the thalweg becomes clearer and has the presence of algae. The bed and bank becomes deeper as the stream flows south. There is quite a bit of wrack lines from leaf litter throughout the site. This site scored a 23.75 according to the Secondary Field Indicators Evaluation. The scoresheets will supply greater detail on what was observed during this determination.

### **Site 3**

Site 3, the easternmost site, is a dense wooded area with large trees as canopy. This site begins at the edge of a row crop field and flows south. There was slow flowing water throughout the whole stream. I went upstream from the site area and it appeared to be a natural spring or wetland area that is supplying flow through this site. It will be shown on the location map below. Very clear thalweg with very little fibrous roots and rooted plants. Algae throughout the whole site. Very well defined bed and bank, and it's hard to tell from the pictures below but it is a sinuous channel. This site scored a 32 according to the Secondary Field Indicators Evaluation. The scoresheets will supply greater detail on what was observed during this determination.

## **CONCLUSION**

As defined by Tennessee Code Annotated, wet weather conveyances are watercourses:

- That flow in direct response to precipitation runoff in their immediate locality;
- Whose channels are at all times above the groundwater table;
- That are not suitable for drinking water supplies; and
- In which hydrological and biological analyses indicate that, under normal weather conditions, due to naturally occurring ephemeral of flow there is not sufficient water to support fish, or multiple populations of obligate lotic organisms whose life cycle included and aquatic phase of at least two months.

Under the current observed conditions,

SITE 1 is determined to be a stream from LAT: 36.156872, LON: -88.751053 to LAT: 36.156609, LON: -88.753342.

SITE 2 is determined to be a wet weather conveyance from LAT: 36.154622, LON: -88.749814 to LAT: 36.153923, LON: -88.749980 and from LAT: -36.153923, LON: -88.749980 to LAT: 36.153923, LON: -88.750039 is determined to be a stream.

SITE 3 is determined to be a stream.

To support these determinations are the following enclosed items:

- Location Map, Topographic Map, Soil Map
- Photographic Documentation
- Site sketch for Tyson chicken barns
- Tax Map
- Calculation of current weather conditions
- SITE 1 field data sheets
- SITE 2 field data sheets
- SITE 3 field data sheets

Contact me at (731) 644-1014 or [mpeale@lismith.com](mailto:mpeale@lismith.com) if you have any questions regarding this report.

Mason Peale, LSIT  
Qualified Hydrologic Professional in Training  
L.I. Smith and Associates, Inc.



**LOCATION MAP**



## LOCATION MAP

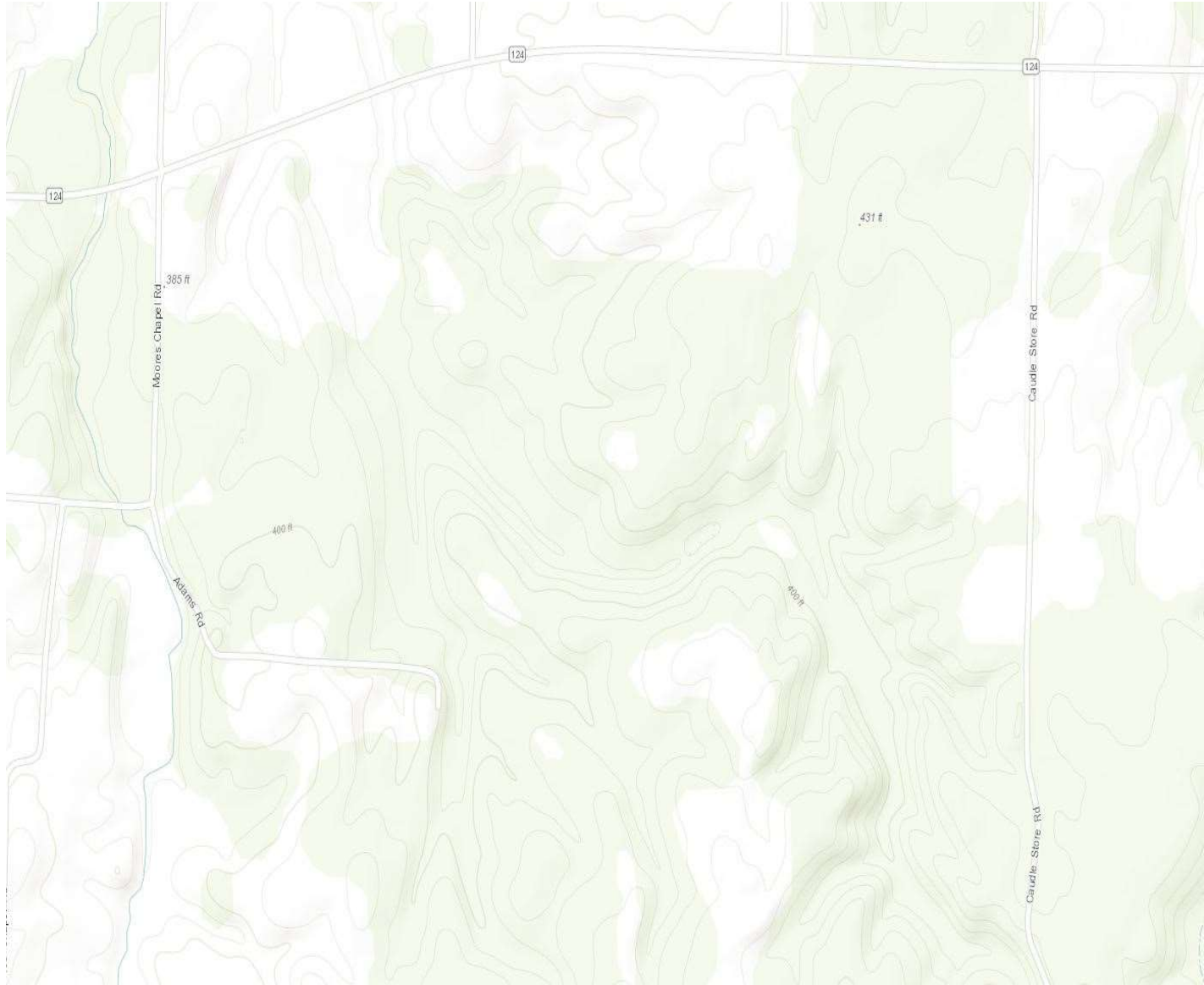




# LOCATION MAP



# TOPOGRAPHIC MAP

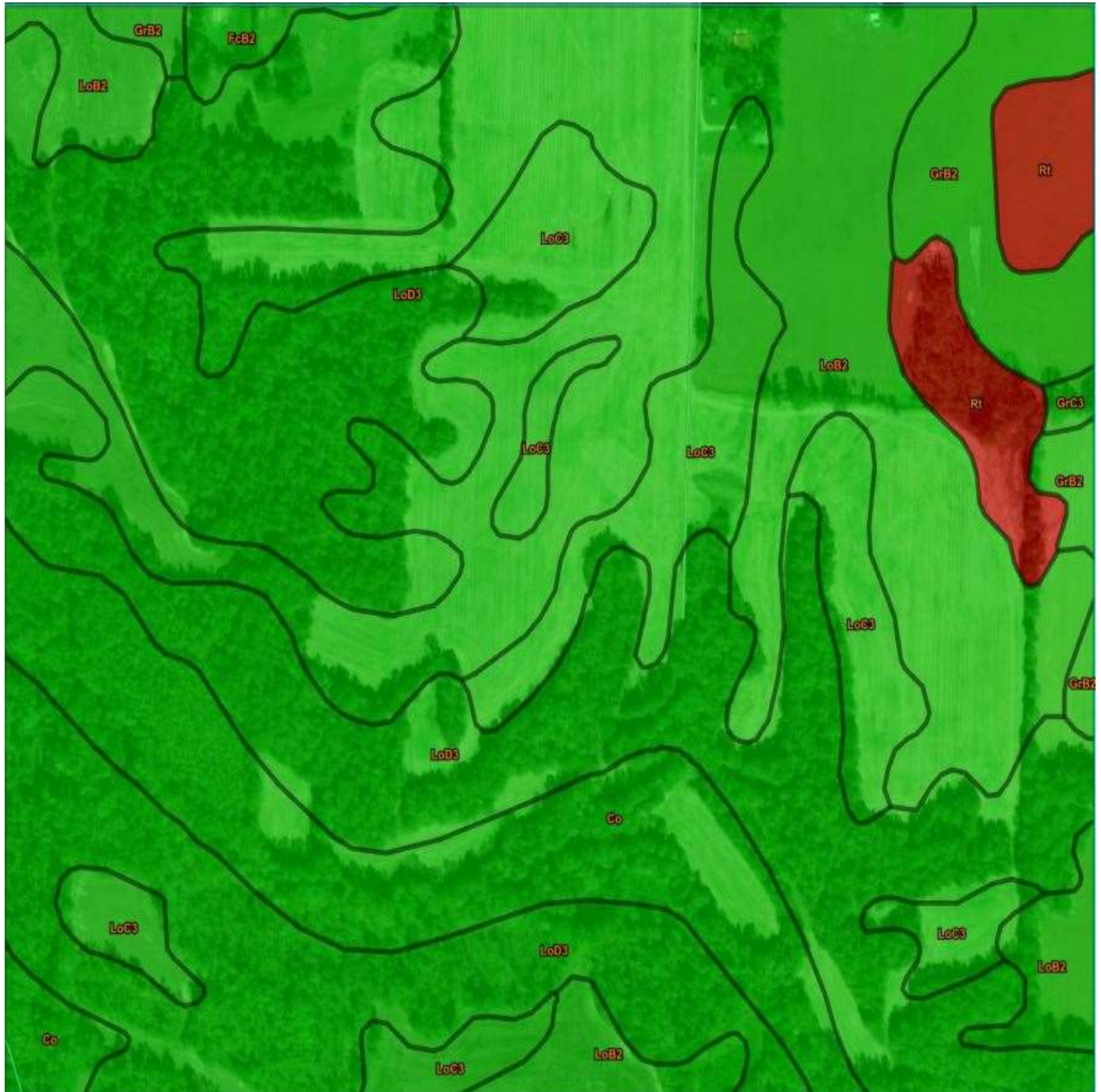








## SOIL MAP



This map shows the hydric soils rating for the determination area. The area highlighted in red better shows the outline of the wetland area that is feeding into Site 3 of this determination. The highlighted area is Ruten Silt Loam, 0% to 2% slopes.



**SITE 1 PHOTOGRAPHS**



**PHOTO 1:** View of the channel looking west at the beginning.





**PHOTO 2:** View of the channel looking east, showing a large grade control.





**PHOTO 3:** View of the channel looking north in a curve of the stream. Bed and Bank becoming more defined.





**PHOTO 4:** View of the wet weather conveyance this stream intersects facing east.





**PHOTO 5**: View of channel near intersection of wet weather conveyance looking west.





**PHOTO 6:** View of a large grade control as we continue west.





**PHOTO 7**: View of the channel looking west. Clear thalweg.





**PHOTO 8**: View of the channel looking east showing one section of a braid in the channel.





**PHOTO 9:** View of the channel looking west, showing some wrack lines.





**PHOTO 10**: View of the channel looking west.





**PHOTO 11**: Soil Probe. Upland soils observed.





**PHOTO 12:** View of a large grade control and a deep pool of water.





**PHOTO 13:** View of the channel showing a riffle area after the large grade control and pool from the photo above.





**PHOTO 14:** View of the channel at the end of this determination. At this end point the stream breaks up into a braided section.



**SITE 2 PHOTGRAPHS**



**PHOTO 1**: View of the channel looking south at the beginning. Wet Weather Conveyance.





**PHOTO 2**: View of the channel looking south. Wet Weather Conveyance.





**PHOTO 3**: View of the channel looking north. Wet Weather Conveyance.





**PHOTO 4:** View of the channel at the start of the stream at the small grade control in the photo at coordinates LAT: 36.153923, -88.749980.





**PHOTO 5**: View of the channel looking south from the start of the stream. Stream.





**PHOTO 6**: View of the channel looking north at a small grade control and pool. Stream.





**PHOTO 7:** View of the channel looking south showing algae. Stream.





**PHOTO 8:** View of the channel looking south. Bed and bank becoming clearer and water in the thalweg. Stream.





**PHOTO 9:** Soil Probe. Upland soils observed.





**PHOTO 10:** View of channel looking north at a large headcut. Stream.





**PHOTO 11:** View of a small grade control as we continue south. Stream.





**PHOTO 12:** View of the channel looking south showing deep bank. Stream.





**PHOTO 13:** View of the channel looking north at the end of this determination. Stream.



**SITE 3 PHOTOGRAPHS**



**PHOTO 1:** View of the channel at the beginning of this site looking north. Very large grade control shown.





**PHOTO 2:** View of the channel looking south from the large grade control above.





**PHOTO 3:** View of the channel looking south.





**PHOTO 4:** View of the channel as we continue south looking north, water was flowing very slowly.





**PHOTO 5:** View of the channel looking north at a large grade control and a deep pool.





**PHOTO 6:** View of the channel as we continue south looking north at a large grade control and a deep pool.





**PHOTO 7:** View of the channel looking south showing small grade controls.





**PHOTO 8:** View of channel as we continue south looking north.





**PHOTO 9:** View of the channel looking south.





**PHOTO 10:** View of the channel looking north at the end of this determination.





36°9'12"N 88°45'20"W  
Apr 03, 2020 12:14:15 PM

**PHOTO 11:** Soil Probe. Upland Soils observed.



**TAX MAP**









Table 1. Calculation of Normal Weather Conditions

		Long-term rainfall records							
	Month	Minus One Std. Dev. (DRY)	Normal (Mean inches)	Plus One Std. Dev. (WET)	Actual Rainfall	Condition (dry, wet, normal)	Condition value	Month weight value	Product of previous two columns
2.71	1 <sup>st</sup> prior month * March 2020	1.78	4.49	7.2	7.00	Normal	2	x3	6
2.00	2 <sup>nd</sup> prior month * February 2020	2.85	4.85	6.85	7.00	Wet	3	x2	6
2.4	3 <sup>rd</sup> prior month * January 2020	1.80	4.20	6.60	4.50	Normal	2	x1	2
								Sum =	14

Note:

If sum is:	
6-9	then prior period has been drier than normal
10-14	then prior period has been normal
15-18	Then prior period has been wetter than normal

Condition value:	
Dry =	1
Normal =	2
Wet =	3

Conclusions: According to the Normal weather calculation, it has been Normal weather. This determination was performed on April 3, 2020. The last significant rainfall took place on March 31, which was only 3/4 of an inch or less.



Table 1. Calculation of Normal Weather Conditions

		Long-term rainfall records							
	Month	Minus One Std. Dev. (DRY)	Normal (Mean inches)	Plus One Std. Dev. (WET)	Actual Rainfall	Condition (dry, wet, normal)	Condition value	Month weight value	Product of previous two columns
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2.00	2 <sup>nd</sup> prior month * February 2020	2.85	4.85	6.85	7.00	Wet	3	x2	6
2.4	3 <sup>rd</sup> prior month * January 2020	1.80	4.20	6.60	4.50	Normal	2	x1	2
								Sum =	14

Note:

If sum is:	
6-9	then prior period has been drier than normal
10-14	then prior period has been normal
15-18	Then prior period has been wetter than normal

Condition value:	
Dry =	1
Normal =	2
Wet =	3

Conclusions: According to the Normal weather calculation, it has been Normal weather. This determination was performed on April 3, 2020. The last significant rainfall took place on March 31, which was only 3/4 of an inch or less.



site 1

Secondary Field Indicator Evaluation

13.25

A. Geomorphology (Subtotal = )	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	0.5	1	1.5
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 = 5.5)	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 stream bed or sides of channel	No = 0		Yes = 1.5	

C. Biology (Subtotal = 8.5)	Absent	Weak	Moderate	Strong
20. Fibrous roots in streambed <sup>1</sup>	3	2	1	0
21. Rooted plants in the thalweg <sup>1</sup>	3	2	1	0
22. Crayfish in stream (exclude in floodplain)	0	1	2	3
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 streambed <sup>2</sup>	0	0.5	1	1.5

<sup>1</sup> Focus is on the presence of upland plants. <sup>2</sup> Focus is on the presence of aquatic or wetland plants.

Total Points = 27.25

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

Notes: This site has a pretty well defined bed and bank. The stream intersects a WWC at approximately 36.156970, -88.751446 where the thalweg is covered by abundance of briars but also remains clear and open underneath. Has a few large grade controls. The thalweg throughout mostly the entire site is clean with wrack lines. Algae is common through most of the site. Appears to be a natural valley from surround wooded areas.



site 1

Secondary Field Indicator Evaluation

13.25

A. Geomorphology (Subtotal = )	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	0.5	1	1.5
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 = 5.5)	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 stream bed or sides of channel	No = 0		Yes = 1.5	

C. Biology (Subtotal = 8.5)	Absent	Weak	Moderate	Strong
20. Fibrous roots in streambed <sup>1</sup>	3	2	1	0
21. Rooted plants in the thalweg <sup>1</sup>	3	2	1	0
22. Crayfish in stream (exclude in floodplain)	0	1	2	3
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 streambed <sup>2</sup>	0	0.5	1	1.5

<sup>1</sup> Focus is on the presence of upland plants. <sup>2</sup> Focus is on the presence of aquatic or wetland plants.

Total Points = 27.25

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

Notes: This site has a pretty well defined bed and bank. The stream intersects a WWC at approximately 36.156970, -88.751446 where the thalweg is covered by abundance of briars but also remains clear and open underneath. Has a few large grade controls. The thalweg throughout mostly the entire site is clean with wrack lines. Algae is common through most of the site. Appears to be a natural valley from surround wooded areas.



Site 2

### Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 12.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	(2)	3
2. Sinuous channel	0	1	(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	(0.5)	1	1.5
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	(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 = 4.25)	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	(1) 2	3
16. Leaf litter in channel (January – September)	1.5	1	(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	1.5
19. Hydric soils in stream bed or sides of channel	(No = 0)		Yes = 1.5	

C. Biology (Subtotal = 7)	Absent	Weak	Moderate	Strong
20. Fibrous roots in streambed <sup>1</sup>	3	(2)	1	0
21. Rooted plants in the thalweg <sup>1</sup>	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	(0)	1	2	3
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 streambed <sup>2</sup>	0	(0.5)	1	1.5

<sup>1</sup> Focus is on the presence of upland plants.

<sup>2</sup> Focus is on the presence of aquatic or wetland plants.

Total Points = 23.75

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

Notes : The beginning of the stream begins at 36.153923, -88.749980 at a small grade control where the thalweg begins to clear up and has presence of algae. The stream has a pretty well defined bed and bank and become deeper as it flows south. Thalweg is pretty clear with little fibrous roots or rooted plants. There is some leaf litter, but it is mostly wrack lines.



**Hydrologic Determination Field Data Sheet**  
Tennessee Division of Water Resources, Version 1.5

County: <i>Weakley</i>	Named Waterbody:	Date/Time: <i>04/03/2020</i>
Assessors/Affiliation: <i>L.I. Smith and Associates, Inc.</i>	Project ID: <i>Site 3</i>	
Site Name/Description: <i>Nguyen, Tyson Chicken Farms</i>	<i>200319</i>	
Site Location: <i>South of State Highway 124, Greenfield, TN</i>		
USGS quad: <i>Spring Creek</i>	HUC (12 digit): <i>080102030302</i>	Lat/Long:
Previous Rainfall (7-days): <i>0.75 inches</i>		
Precipitation this Season vs. Normal: <i>abnormally wet</i> elevated <u>average</u> low abnormally dry unknown		
Source of recent & seasonal precip data:		
Watershed Size: <i>1158 Square Miles</i>	Photos: <input checked="" type="radio"/> or N (circle) Number:	
Soil Type(s) / Geology: <i>LOD3, Loring Silt Loam</i>	<i>8% to 12%</i>	Source: <i>USDA</i>
Surrounding Land Use: <i>Wooded, Row Crop</i>		
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes):		
Severe	Moderate	Slight
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 >0.1" 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, QHPs 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 1.4

<b>Overall Hydrologic Determination</b> = <i>Stream</i>
<b>Secondary Indicator Score (if applicable)</b> = <i>32</i>

**Justification / Notes:** *This site begins at 36.1551211, -88.7472679 and flows south where it ends at 36.153147, -88.747315. This stream continues south to stream that then flows west to Donald Branch.*



## Secondary Field Indicator Evaluation

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	(1) 2	3
4. Sorting of soil textures or other substrate	0	1	(1) 2	3
5. Active/relic floodplain	(0)	0.5	1	1.5
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 = 7)	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 stream bed or sides of channel	No = 0		Yes = 1.5	

C. Biology (Subtotal = 8)	Absent	Weak	Moderate	Strong
20. Fibrous roots in streambed <sup>1</sup>	3	(2)	1	0
21. Rooted plants in the thalweg <sup>1</sup>	3	(2)	1	0
22. Crayfish in stream (exclude in floodplain)	0	(1)	2	3
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 streambed <sup>2</sup>	0	(0.5)	1	1.5

<sup>1</sup> Focus is on the presence of upland plants.

<sup>2</sup> Focus is on the presence of aquatic or wetland plants.

Total Points = 32

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

**Notes:** This site seemed to be fed by maybe a natural spring or wetland area northeast of this site, shown on the location maps. This site has a well defined, continuous bed and bank through the whole site. Lots of small bars and benches and lots of recent alluvial deposits. Lots of leaf piles and very few roots or rooted plants in thalweg. Algae throughout majority of streams.