1135 Arrowhead Rd. Monterey, TN 38574 tmeggs.pe@gmail.com

July 9, 2021

A Hydrologic Determination was preformed for Lauren Engineering on behalf of the Kevin and Thomas Mack Property.

Contact information for the current owners is:

Kevin and Thomas Mack Property 240 Mill Dr. Cookeville, TN 38501

The Determination is submitted by Tracy Meggs, TN-QHP 1085-TN12.

The property has an industrial building and parking lot and this determination was conducted in expectation of enlarging the facilities.

Coordinates of the southern most portion of channel are: 36.1697N/-85.5455E.

No record of a previous determination at this site could be located.

Included in this package are:

- Hydrologic Determination Field Data Sheets
- Aerial vicinity map with photo locations
- Photographs
- Weather Conditions Worksheet
- NRCS Soils map
- Topographic Survey

Sincerely,

Tracy Meggs TN-QHP 1085-TN12

## Hydrologic Determination Field Data Sheet

Named Waterbody: VNAMED TRIBUTARY TO CAME CREEK  Assessors/Affiliation: TRACY MEG45  Site Name/Description: AUTOMATION TOCOTOSSIBLE EXTANSION  Site Location: DI MILL DR. CORREVILLE, TN  HUC (12 digit): 05130 INB 045, 0150  Previous Rainfall (7-days): 0.74" LAST RAIN 7/1/21  Precipitation this Season vs. Normal: abnormally wet elevated (average) low abnormally dry unknown Source of recent seasonal perceptation assessors and to natural channel morphology & hydrology (circle one & describe fully in Notes): Sol Type(s) / Geology: CHRISTIAN SILTI LOAM \$ LANDISEUTA SILTI LOAM SOURCE NATES SOLITICAL DEGREE OF HISTORIAN SILTI LOAM \$ LANDISEUTA SILTI LOAM SOURCE NATES SOLITICAL DEGREE OF HISTORIAN SILTI LOAM \$ LANDISEUTA SILTI LOAM SOURCE NATES SOLITICAL NATES SOLI	Project the Name/Description:	Tennessee Division of Water Pollution Control, Versio	n 1.5	
Site Name/Description: Automatical Tool Possible Expansion Site Incention Tool Possible Expansion Site Location: IDI MILL DZ. COREVILLE TN  HUC (12 digit): 05130108045_0150 Lat/Long34.1497  Previous Rainfall (7-days): 0.74" Last Rand 7/11/21 R5.5455  Precipitation this Season vs. Normal: abnormally wet elevated (average) low abnormally dry unknown source of recent & seasonal procedata: NOAA \$ TTU NEATHER STATEM  Watershed Size: \( \) 1 30 MILE  Soil Type(s) / Geology: \( \) HEISTIAN SILTY LOAM \$ LANDISTURE SILTY LOAM Source: \( \) Seasonal Procedata: \( \) NOAA \$ TTU LOAM \$ LANDISTURE SILTY LOAM Source: \( \) Service YOUTH AN  Surrounding Land Use: \( \) \( \) NOUSTRIAL RESIDENTIAL  Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes): Severe (Moderate)  Primary Field Indicators Observed  Primary Indicators  1. Hydrologic feature exists solely due to a process discharge 2. Defined bed and bank absent, vegetation composed of upland and FACU species (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  4. Daily flow and precipitation records showing feature only flows in direct response to rainfall 5. Presence of fish (except Gambusia)  7. Presence of fish (except Gambusia)  8. Flowing water in channel and 7 days since last precip >0.1* in local watershed (Stream Stream Stream)  8. Flowing water in channel and 7 days since last precip >0.1* in local watershed (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  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 is pr	TRACY MEGGS  TEN NOTE IN NOTE IF ANY TOOL POSSIBLE EXPANSION  SIT  TELOCATION:   DI M   L D Z   COREVILLE   TA   Lat/Loni  La	Named Waterbody: UNNAMED TRIBUTARY TO CANECREEK		6///0
Site Name/Description: AUTOMATION TOOL POSSIBLE EXTANSION SITE  Site Location: 101 M 1 LL DZ (OOKEVILLE TN)  HUC (12 digit): 0.5130 1080 +5 0150  Previous Rainfall (7-days): 0.74" LAST RAND 7/11/21  Precipitation this Season vs. Normal: abnormally wet elevated (average) low abnormally dry unknown Source of recent & seasonal precip date: NOAA ₹ TIU WEATHEZ STATION  Watershed Size: ∠ 1 SQ MILE  County: PUTNAN  Soli Type(s) / Geology: CHRISTIAN SILTIL DAM ₹ LANDISDUTA SILTIL LOAM ₹ LANDISDUTA	te Name/Description:			
HUC (12 digit): 05130108045_0150   Lat/Long36./497    Previous Rainfall (7-days): 0.74" Last Rand T/II/21   RS.5455    Precipitation this Season vs. Normal: abnormally wet elevated (average) low abnormally dry unknown Source of recent & seasonal precipidate: NOAA \$ TIV WEATHER STATION   Watershed Size:	The Location:  DI M   L DZ   CORREVILLE   TN    Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long    Lat/Long   Lat/Long   Lat/Long    Lat/Long   L	1 '' -	517	El
Previous Rainfall (7-days): 0.74" Last Rain Till 21 RS 5455 Precipitation this Season vs. Normal: abnormally wet elevated (average) low abnormally dry unknown Source of recent & seasonal precipitation the Season vs. Normal: abnormally wet elevated (average) low abnormally dry unknown Source of recent & seasonal precipitation that is No. AAA # TIV Wet the Strate of County. Put Nail 2 County	Lat/Longition (12 digit): 05130108045_0150  Lat/Longitions Rainfall (7-days): 0.74" Last Kand 7/11/21  Laterished Size: 2   5Q MILE   County: PUTNA    Latershed Size: 2   5Q MILE   County: PUTNA    Latershed Size: 3   5Q MILE   County: PUTNA    Latershed Size: 4   5Q MILE   County: PUTNA    Latershed Size: 4   5Q MILE   County: PUTNA    Latershed Size: 5   5Q MILE   County: PUTNA    Latershed Size: 6   FRISTIAN SILTY LOAM \$ LANDISTURA SILTY LOAM Sour Absent    Later of recent & seasonal precipitation to natural channel morphology & hydrology (circle one & describe furnational alteration to natural channel morphology & hydrology (circle one & describe furnational functional alteration to natural channel morphology & hydrology (circle one & describe furnational functional alteration to natural channel morphology & hydrology (circle one & describe furnational functional		001	
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Precipitation this Season vs. Normal: abnormally wet elevated average low abnormally dry unknown Source of recent & seasonal precipitation. **NOAA \$ TID   NEATHER STATION**  Soil Type(s) / Geology: (**HRISTIAN SILTY   LOAM \$ LANDISEURG SILTY   LOAM SOURCE: SURVEY**  Surrounding Land Use: **NOWTRIAN SILTY   LOAM \$ LANDISEURG SILTY   LOAM SOURCE: SURVEY**  Surrounding Land Use: **NOWTRIAN SILTY   LOAM \$ LANDISEURG SILTY   LOAM SOURCE: SURVEY**  Severe   Moderate   Slight   Absent   Primary Field Indicators Observed  Primary Field Indicators Observed  Primary Indicators  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 5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase  6. Presence of fish (except *Gambusia*)   Stream   Stre	recipitation this Season vs. Normal: abnormally wet elevated (average) low abnormally of purce of recent & seasonal precipitation (atershed Size: ∠ / SQ MILE County: PUTNA, detershed Size: ∠ / SQ MILE County: PUTNA, Sour Jarrounding Land Use: /NDUSTRIAL   RESIDENTIAL   County: PUTNA, personal distribution to natural channel morphology & hydrology (circle one & describe furity for personal distribution) and provided the primary Field Indicators Observed    Primary Field Indicators Observed   Primary Field Indicators Observed   Primary Field Indicators Observed   Primary Indicators	0313010801324130		- 1 - 1 - 1
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Soil Type(s) / Geology: CHRISTIAN SILTY LOAM & LANDISEURA SILTY LOAM Source: NESS Solution of the interpretation of natural channel morphology & hydrology (circle one & describe fully in Notes):  Severe Moderate Slight Absent  Primary Field Indicators Observed  Primary Indicators  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  4. Daily flow and precipitation records showing feature only flows in direct response to rainfall  5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase  6. Presence of fish (except Gambusia)  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  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 1.5  Overall Hydrologic Determination = STREAM  Secondary Indicator Score (if applicable) = /9.5  ustification / Notes:	Sour Type(s) / Geology: CHRISTIAN SILTY LOAM & LANDISBURG SILTY LOAM Sour Autrounding Land Use: /NDUSTRIAL   RESIDENTIAL   RESIDENTIAL   Residential Slight   Residential Slight	Source of recent & seasonal precip data: NOAA & TTU WEATHER STATION		
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2. Defined bed and bank absent, vegetation composed of upland and FACU species  3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions  4. Daily flow and precipitation records showing feature only flows in direct response to rainfall  5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase  6. Presence of fish (except Gambusia)  7. Presence of naturally occurring ground water table connection  8. Flowing water in channel and 7 days since last precip >0.1° in local watershed  9. Evidence watercourse has been used as a supply of drinking water  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 1.5  Overall Hydrologic Determination = STREAM  Secondary Indicator Score (if applicable) = /9.5  Justification / Notes:  HISTORIC ALTERATION TO CHANNEL - NOUSTRIAL BUILDING GRADING CHANNEL ENCARSULATED AT DOWNSTREAM END OF DETERMINATION OF DETERMINATION.	Defined bed and bank absent, vegetation composed of upland and FACU species  Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions  Daily flow and precipitation records showing feature only flows in direct response to rainfall  Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase  Presence of fish (except Gambusia)  Presence of naturally occurring ground water table connection  Flowing water in channel and 7 days since last precip >0.1" in local watershed  Evidence watercourse has been used as a supply of drinking water  NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary assessors may choose to score secondary indicators as supporting eviden  In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator on page 2 of this sheet, and provide score below.  Guidance for the interpretation and scoring of both the primary & secondary indicators is provided wPC Guidance For Making Hydrologic Determinations, Version 1.5  Everall Hydrologic Determination = STREAM  Secondary Indicator Score (if applicable) = 19.5  Stification / Notes:  ESTORIC ALTERATION TO CHANNEL - INDUSTRIAL BUILDING CHANNEL ENCAPSULATED AT DOWNSTREAM END OF DETERMENT OF DETERMENT AND OF DETERMENT OF DETER		NO	
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PHOTO 1 - LOOKING SOUTHEAST AT HEADWALL - DOWNSTREAM PHOTO 2 - LOOKING NORTHWEST AT DEBRIS IN CHANNEL	HOTO 1 - LOOKING SOUTHEAST AT HEADWALL - DOWNSTREAM HOTO 2 - LOOKING NORTHWEST AT DEBRIS IN CHANNEL	CHANNEL ENCAPSULATED AT DOWNSTREAM END C	F DETE	ZMINATIO
1-HOTO 2-LOOKING NORTH WEST AT DEBRIS IN CHANNEL	HOTO Z-LOOKING NORTH WEST HT DEBRIS IN CHANNEL	PHOTO 1 - LOOKING SOUTHEAST AT HEADWALL - DOWN	ISTREAM	
		-HOTO Z-LOOKING NORTH WEST AT DEBRIS IN CHANNEL		

### Secondary Field Indicator Evaluation

A. Geomorphology (Subtotal = 7)	Absent	Weak	Moderate	Strong
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
Sorting of soil textures or other substrate	0	(1)	2	3
5. Active/relic floodplain	(0)	(0.5)	1	1.5
Depositional bars or benches	0	1	2	3
7. Braided channel	(0)	1	2	3
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
<ol> <li>At least second order channel on existing USGS or NRCS map</li> </ol>	No:	= 0	Yes	= 3

B. Hydrology (Subtotal = 4, 3)	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)	4	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)

3 (	2	1	0
(3,)	2		
	2	1	0
0	1	2	3
(0)	1	2	3
0	(0.5)	1	1.5
0	1	2	3
(0)	. 1	2	3
(0)	0.5	1	1.5
0	0.5	(1)	1.5
	0	0 (0.5) 0 1 (0) 1 (0) 0.5 0 0.5	0 (0.5) 1 0 1 2 (0) 1 2 (0) 0.5 1

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

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Notes: 3" down 10/R 4/3		<u> </u>
10" down 10/K 3/1		
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Acrowhead in Channel		
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# Hydrologic Determination Field Data Sheet ssee Division of Water Pollution Control. Version 1.5

Named Waterhody: / S		1 1 1
Named Waterbody: UNNAMED TRIBUTARY TO CANE CREEK		ne: 4/17/21/
Assessors/Affiliation: TRACY MEGGS	Project I	
Site Name/Description: AUTOMATION TOOL POSSIBLE EXPANSION	517	E2
Site Location: 101 MILL DR, COOKEVILLE, TH		-
HUC (12 digit): 05/30/08045_0/50	Lat/Long	31. 1710
Previous Rainfall (7-days): 0, 74" LAST RAIN 7/11/21	- 4	5 5462
	bnormally di	ry unknown
Watershed Size: < / 50 MILE County	PUTNA	M
Soil Type(s) / Geology: CHRISTIAN SILTY LOAM & LANDISBURG SILT LO.		1./57 500
Surrounding Land Use: /NDUSTRIAL/RESIDENTIAL		DURVEY
Degree of historical alteration to natural channel morphology & hydrology (circle one &	describe fu	Ily in Notes):
	Absent	
Primary Field Indicators Observed		
Primary Indicators	NO	YES
Hydrologic feature exists solely due to a process discharge	1	WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species	V	WWC
Watercourse dry anytime during February through April 15th, under normal presintation / ground unter conditions		WWC
precipitation / groundwater conditions  4. Daily flow and precipitation records showing feature only flows in direct response	-	
to rainfall	1	WWC
5. Presence of multiple populations of obligate lotic organisms with ≥ 2 month	/	Stream
aquatic phase		Stream
6. Presence of fish (except Gambusia)	V	Stream
7. Presence of naturally occurring ground water table connection	V	Stream
8. Flowing water in channel and 7 days since last precip >0.1" in local watershed		Stream
	1/	Stream
9. Evidence watercourse has been used as a supply of drinking water  1. **Transport of the country of the coun		
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### **Secondary Field Indicator Evaluation**

A. Geomorphology (Subtotal = 10.7)	Absent	Weak	Moderate	Strong
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
Sorting of soil textures or other substrate	0	(1)	2	3
Active/relic floodplain	0 (	0.5	1	1.5
Depositional bars or benches	0	(1)	2	3
7. Braided channel	(0)	1	2	3
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
<ol> <li>At least second order channel on existing USGS or NRCS map</li> </ol>	No:		Yes	= 3
2 11 12 12 12 12 12 12 12 12 12 12 12 12		4,7	5	5.5

	1,					
B. Hydrology (Subtotal = 6,75)	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)		
			-	Chicago Paris		

	1 1 1 )		
Absent	Weak	Moderate	Strong
3 (	) 2	1	0
(3)	2	1	0
0	(1)	2	3
(0)	7	2	3
0	0.5	1	1.5
0	1	2	3
(0)	1	2	3
0 (	0.5	1	1.5
0	(0.5)	1	1.5
	Absent  3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Absent Weak  3 2 3 2 0 1 0 0 1 0 0.5 0 1 0 0.5	Absent Weak Moderate  3 2 1  3 2 1  0 1 2  0 1 2  0 0.5 1  0 1 2  0 1 2  0 0.5 1  0 1 2  0 0.5 1

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

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

Total Points = 24	to by a graph of proper
Under Normal Conditions, Water	
Conveyance if Secondary Indica	tor Score < 10 noints

				TOTAL SERVICE	
mid St	ream pho	to W/Riff	lo Con	36.6702	85.54
		7			

## ATC Photo locations





Maxar, Microsoft | Ben Drury |





Photo 2 - Looking northwest at debris in the channel - upstream.



Photo 3 – Looking north-northwest upstream from site 2



Photo 4 – Additional photo looking east into stream – no data sheet for this site.

#### **Normal Weather Conditions Calculations Table**

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 <sup>st</sup> prior month*	MAY	2.39	2.56	4.95	7.34	5.05	A	2	3	6
2 <sup>nd</sup> prior month*	APRIL	,			4.99	2.37	,	/	2	2
3 <sup>rd</sup> prior month*	MARCH	2.85	3.25	6.10	8.95	4.81	A	2	1	2
									Sum =	10

#### Note:

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:
1	Low =
2	Average =
3	Elevated =

ATC-MILL DR COOKEVILLE MORMAL WEATHER CONDITIONS



