



**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**  
**ENVIRONMENTAL DIVISION**  
**ENVIRONMENTAL TECHNICAL STUDIES OFFICE**  
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(615) 741-3655

**BUTCH ELEY**  
DEPUTY GOVERNOR &  
COMMISSIONER OF TRANSPORTATION

**BILL LEE**  
GOVERNOR

**MEMORANDUM**

To: *Stacy Weaver*  
*TDOT Manager*

From: *Matt Beeler*  
*Region One Ecology*

Date: *10/2/24*

Subject: **Environmental Boundaries Report For:**  
**SR-353 Bridge over Nolichucky River**  
**PIN: 135866.08**

An ecological evaluation of the subject project has been conducted in response to Hurricane Helene

**STREAMS:** *There is one stream within project limits*

**WETLANDS:** None.

**OTHER FEATURES:** *None*

**SPECIES:**

- *USFWS: USFWS coordination will be grouped with all Nolichucky Bridge Replacements.*
- *TWRA: TWRA coordination will be grouped with all Nolichucky Bridge Replacements.*
- *TDEC DNA: TDEC DNA 2023 MOA applies for this project under Condition 2.*

**COMMITMENTS:** TBD.

Your assistance is appreciated. If you have any questions or comments, please contact me at 865-216-2448 or e-mail [matthew.beeler@tn.gov](mailto:matthew.beeler@tn.gov).

xc: *Region 1 Project Development: Dexter Justis, John Barrett, Mark Doty*  
*Design Lead: Stacy Weaver*

*HQ Ecology:* Shawn Wurst, Dennis Crumby

*HQ Permits:* Claire Sichko

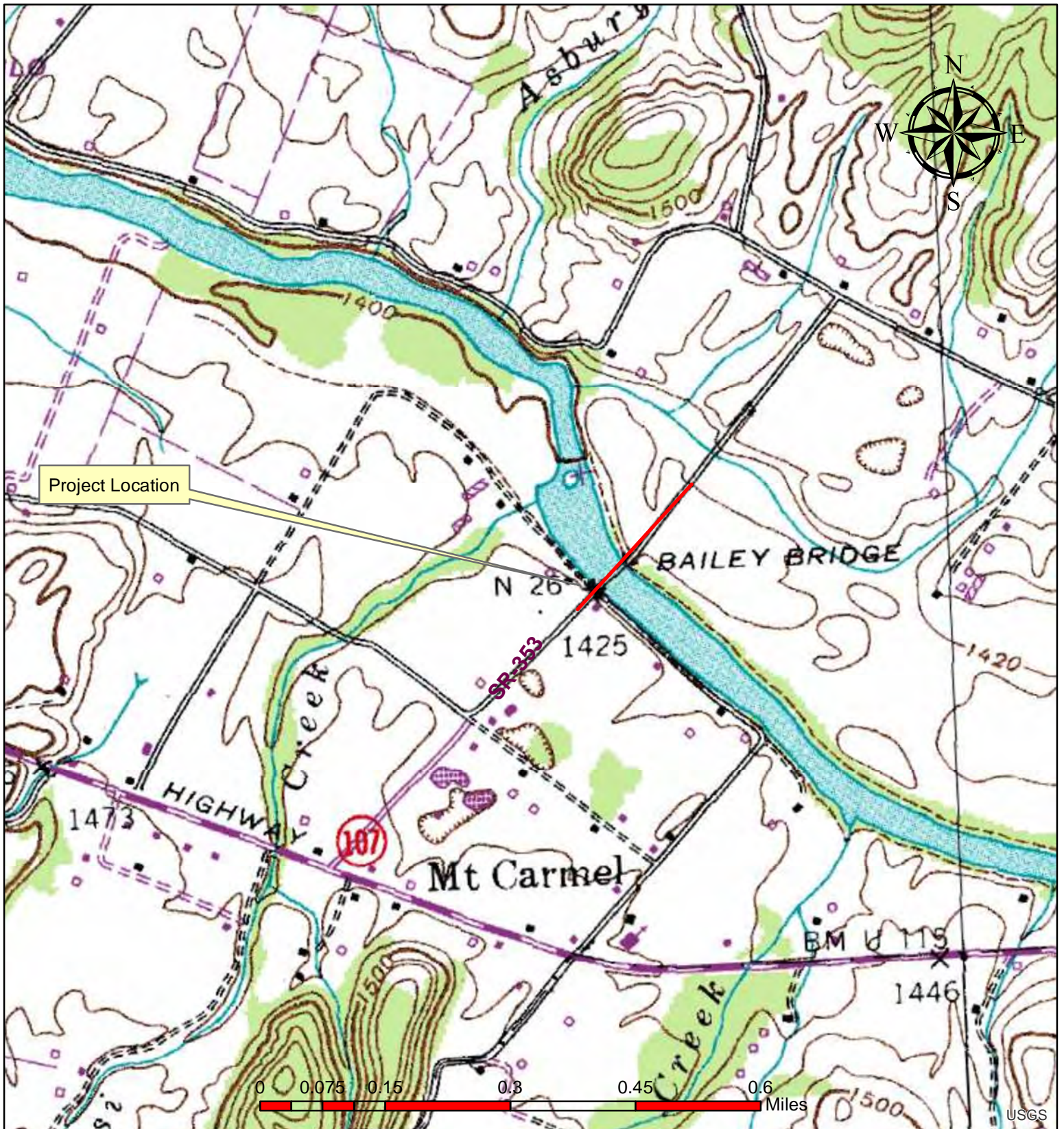
*Region 1 Permits:* Chad Weaver

[TDOT.Env.Ecology@tn.gov](mailto:TDOT.Env.Ecology@tn.gov)

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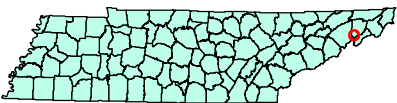


**Project Location Map - topo**  
**SR-353 Bridge over Nolichucky River**  
**Washington County**

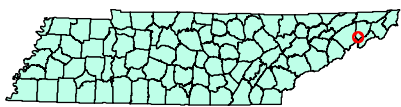
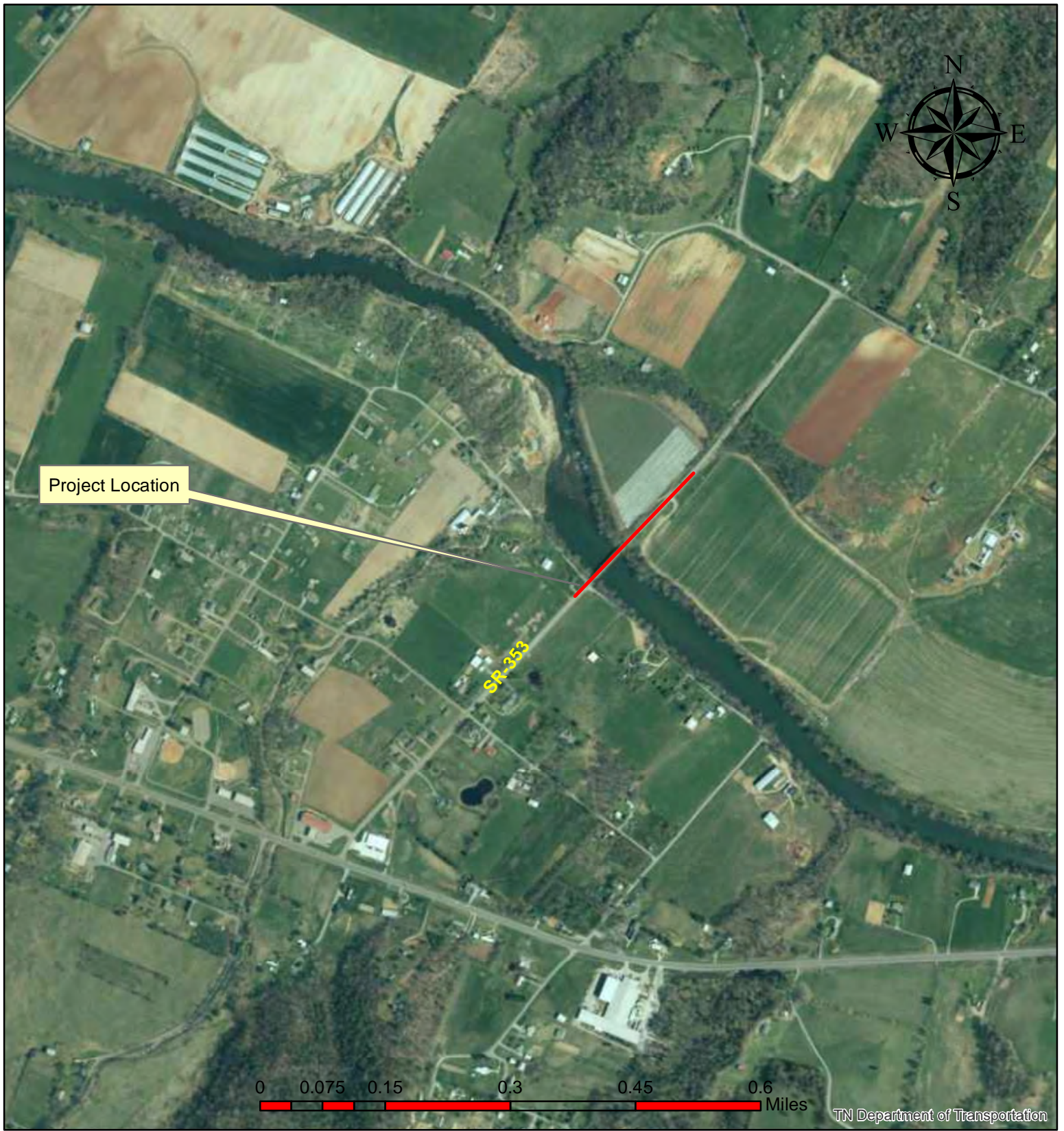
Telford 190 NE

10-2-24

PIN:135866.08







**Project Location Map - aerial  
SR-353 Bridge over Nolichucky River  
Washington County**

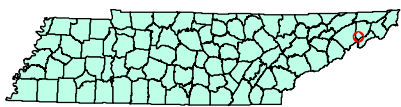
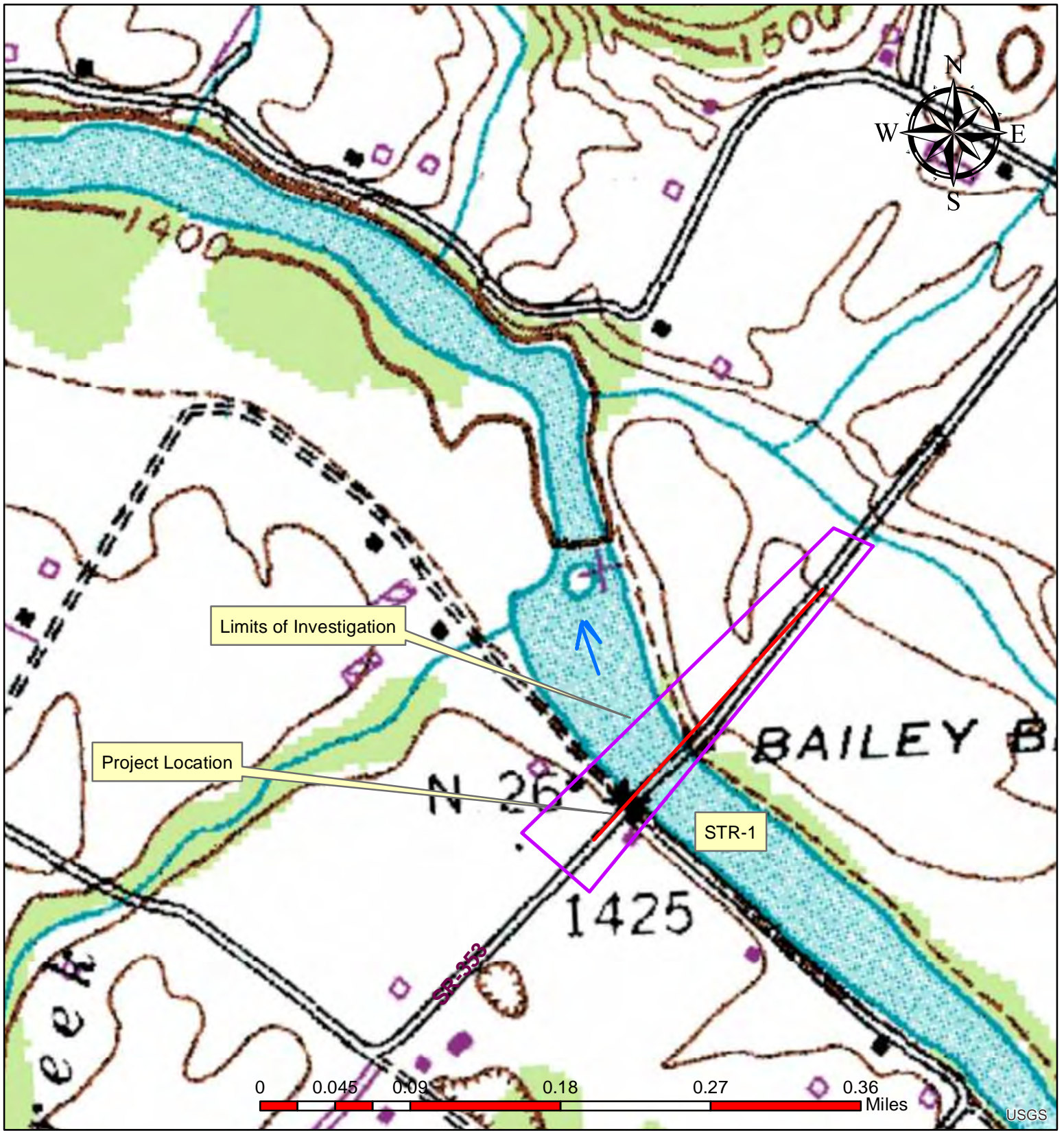
**Telford 190 NE**

**10-2-24**

**PIN:135866.08**







**Topo Water Resources Map  
SR-353 Bridge over Nolichucky River  
Washington County**

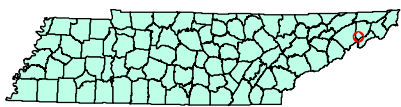
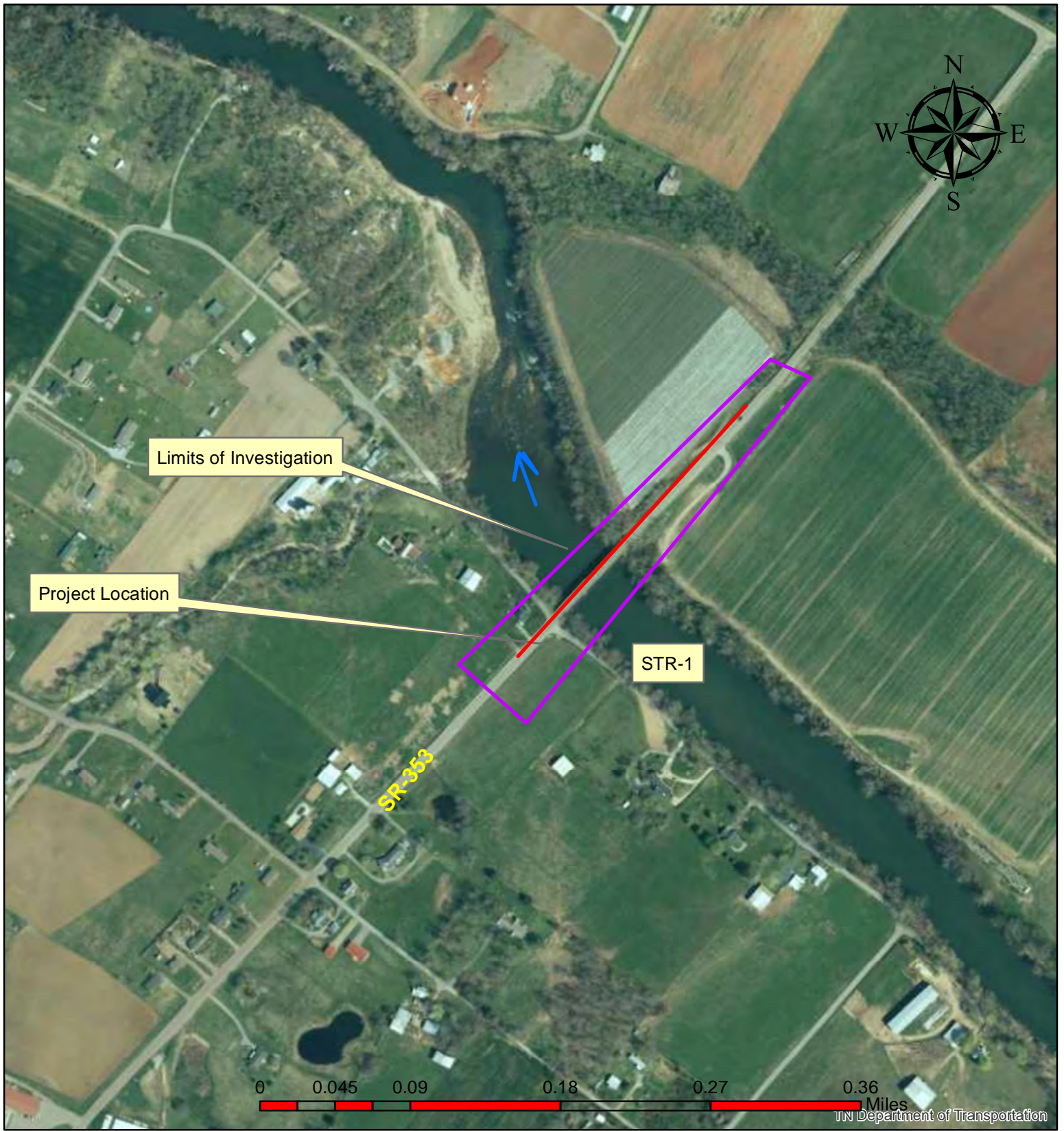
**Telford 190 NE**

**10-2-24**

**PIN:135866.08**







**Aerial Water Resources Map  
SR-353 Bridge over Nolichucky River  
Washington County**

**Telford 190 NE**

**10-2-24**

**PIN:135866.08**



**Project Name:** SR-353 Bridge over Nolichucky River

**PIN:** 135866.08

**Water Resource Table for EBR**

Based on: Planning Report

Date:

Water Resources (Non-Wetland)					
Label	Type	Latitude	Longitude	Receiving Waters	Quality
STR-1	Perennial Stream	36.15598	-82.590556	Douglas Lake	Not Supporting/Impaired (303(d))

Water Resources (Wetland)*					
Label	Type	Latitude	Longitude	Receiving Waters	Quality
None					
*Unless described otherwise in the NEPA document; all wetlands are presumed to serve the following functions to varying degrees, based on location: wildlife habitat, flood storage, groundwater recharge, nutrient processing, contaminant filtering, and recreation.					

Note- Features referenced in this table are based on information available and may change as the project is further refined throughout project development.

# Ecology Field Data Sheet: **Water Resources**

<b>Project:</b> SR 353 Bridge over Nolichucky River PIN:135866.08										
<b>Biologist:</b>	Matt Beeler		<b>Affiliation:</b>	TDOT		<b>Date:</b>	8/5/22			
<b>1-Station:</b> from plans										
<b>2-Map label and name</b>	STR-1, Nolichucky River									
<b>3-Latitude/Longitude</b>	36.155980 N, -82.590556 W									
<b>4-Feature description:</b>										
<b>-channel identification</b>	perennial stream	<input checked="" type="checkbox"/>	intermittent stream	<input type="checkbox"/>	ephemeral stream	<input type="checkbox"/>	wwc	<input type="checkbox"/>		
<b>-HD score (if applicable)</b>										
<b>-OHWM indicators</b>	bed & banks	<input checked="" type="checkbox"/>	deposition	<input checked="" type="checkbox"/>	presence of litter debris	<input type="checkbox"/>	scour	<input type="checkbox"/>	veg absent, bent, matted	<input type="checkbox"/>
	change in plant community	<input type="checkbox"/>	destruction of terrestrial veg	<input type="checkbox"/>	multiple observe flow events	<input checked="" type="checkbox"/>	sediment sorting	<input checked="" type="checkbox"/>	water staining	<input checked="" type="checkbox"/>
	change in soil character	<input type="checkbox"/>	leaf litter disturb or absent	<input type="checkbox"/>	natural line impressed on bank	<input checked="" type="checkbox"/>	shelving	<input type="checkbox"/>	wracking	<input checked="" type="checkbox"/>
<b>-channel bottom width</b>	250'			-top of bank width			260'			
<b>-width and max depth at ordinary high water mark</b>	255', NA									
<b>-width at bankfull</b>	260'									
<b>-bank height</b>	LDB - 4-5'				RDB - 4-5'					
<b>-riffle/pool complex or other specialized habitat present?</b>	No									
<b>-dominant riparian species:</b> ------(LDB /RDB)-----	LDB: Sycamore, Black Walnut, Box Elder									
	RDB: Sycamore, Black Walnut, Box Elder									
<b>-particle size distribution %</b>	Silt/Sand:	NA	Gravel:	NA	Cobble:	NA	Boulder:	NA	Bedrock:	NA
<b>5-photo numbers</b>	7,9									
<b>6-HUC -8 Code &amp; Name</b>	06010108, Tennessee Region									
<b>7-Assessed</b>	yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>	<input type="checkbox"/>				
<b>8-ETW</b>	yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>	<input type="checkbox"/>				
<b>9-303 (d) List</b>	yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	siltation	<input type="checkbox"/>	habitat:	<input type="checkbox"/>	<input type="checkbox"/>	other:	<input type="checkbox"/>
	no	<input type="checkbox"/>	<input type="checkbox"/>							
<b>10-Notes</b>	This assessment is before the hurricane.									



# Ecology Field Data Sheet: **Water Resources**

<b>Project:</b> SR 353 Bridge over Nolichucky River PIN:135866.08										
<b>Biologist:</b>	Matt Beeler		<b>Affiliation:</b>	TDOT		<b>Date:</b>	10/1/24			
<b>1-Station:</b> from plans										
<b>2-Map label and name</b>	STR-1, Nolichucky River									
<b>3-Latitude/Longitude</b>	36.155980 N, -82.590556 W									
<b>4-Feature description:</b>										
<b>-channel identification</b>	perennial stream	<input checked="" type="checkbox"/>	intermittent stream	<input type="checkbox"/>	ephemeral stream	<input type="checkbox"/>	wwc	<input type="checkbox"/>		
<b>-HD score (if applicable)</b>										
<b>-OHWM indicators</b>	bed & banks	<input checked="" type="checkbox"/>	deposition	<input checked="" type="checkbox"/>	presence of litter debris	<input type="checkbox"/>	scour	<input type="checkbox"/>	veg absent, bent, matted	<input type="checkbox"/>
	change in plant community	<input type="checkbox"/>	destruction of terrestrial veg	<input type="checkbox"/>	multiple observe flow events	<input checked="" type="checkbox"/>	sediment sorting	<input checked="" type="checkbox"/>	water staining	<input checked="" type="checkbox"/>
	change in soil character	<input type="checkbox"/>	leaf litter disturb or absent	<input type="checkbox"/>	natural line impressed on bank	<input checked="" type="checkbox"/>	shelving	<input type="checkbox"/>	wracking	<input checked="" type="checkbox"/>
<b>-channel bottom width</b>	270'			-top of bank width			380'			
<b>-width and max depth at ordinary high water mark</b>	300', NA									
<b>-width at bankfull</b>	380'									
<b>-bank height</b>	LDB - 10'				RDB - 10'					
<b>-riffle/pool complex or other specialized habitat present?</b>	No									
<b>-dominant riparian species:</b> ------(LDB /RDB)-----	LDB: None									
	RDB: None									
<b>-particle size distribution %</b>	Silt/Sand:	NA	Gravel:	NA	Cobble:	NA	Boulder:	NA	Bedrock:	NA
<b>5-photo numbers</b>	2,8,10									
<b>6-HUC -8 Code &amp; Name</b>	06010108, Tennessee Region									
<b>7-Assessed</b>	yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>	<input type="checkbox"/>				
<b>8-ETW</b>	yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>	<input type="checkbox"/>				
<b>9-303 (d) List</b>	yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	siltation	<input type="checkbox"/>	habitat:	<input type="checkbox"/>	<input type="checkbox"/>	other:	<input type="checkbox"/>
	no	<input type="checkbox"/>	<input type="checkbox"/>							
<b>10-Notes</b>	Channel widths based from google earth									



Photo #1: Looking north on SR 353 at the beginning of project.



Photo #2: Looking south on SR 353 where SR-353 Bridge over the Nolichucky stood.





Photo #3: Looking towards the Intersection of SR-353 and Bill Mauk Road.



Photo #4: The house foundation that was at the intersection of SR-353 and Bill Mauk Road.



Photo #5: Looking north on the SR-353 Bridge over Nolichucky River.



Photo #6: Looking south on SR-353 towards where photo 3 was taken in the past.





Photo #7: Looking downstream on STR-1 from SR-353 Bridge over Nolichucky River.



Photo #8: Looking downstream on the Nolichucky River.



Photo #9: Looking on the upstream side of SR-353 Bridge over Nolichucky River.



Photo #10: Looking upstream on the Nolichucky River.





Photo #11: Looking south off of SR-353 .



Photo #12: Looking north on SR-353