

Highway Stormwater Program STORMWATER MANAGEMENT PLAN



Year:

Version 3.02; Released April 23, 2024)

FOR NCDOT PROJECTS WBS Element: 35517.3.TA2 TIP/Proj No: R-2829B County(ies): Wake Page **General Project Information** WBS Element: 35517.3.TA2 TIP Number: R-2829B Project Type: New Location Date: 7/10/2024 NCDOT Contact: NC Turnpike Authority - Ron McCollum Contractor / Designer: ICE of Carolinas Address: 1 South Wilmington Street Address: 4505 Falls of Neuse Rd, Suite 125 Raleigh, NC 27609 Highway Building 6th Floor Raleigh, NC 27699 Phone: 919-707-2708 Phone: 984-255-0410 Email: remccollum@ncdot.gov Email: peter.graf@ice-eng.com City of Raleigh City/Town: County(ies): Wake White Oak CAMA County? River Basin(s): No Wetlands within Project Limits? Yes **Project Description** Residential and Urban Development Project Length (lin. miles or feet): 6 miles Surrounding Land Use: **Proposed Project Existing Site** Project Built-Upon Area (ac.) Typical Cross Section Description: 6-lane divided facility; 70ft grassed median, with 8:1 side slopes (designed to New Location Project accommodate 1 future median through lane in each direction), 14ft outside and median shoulders, outside grass roadway ditches w 6:1 side slopes; cut and fill slopes have a

Year: 2025/2045

Annual Avg Daily Traffic (veh/hr/day): General Project Narrative: **Quality Impacts)**

The North Carolina Department of Transportation (NCDOT) has proposed to construct the Triangle Expressway Southeast Extension from south of SR 2542 (Rock Quarry Road)

Existing:

- (Description of Minimization of Water to I-87/US 64/US 264. Below are a list of minimization efforts associated with water quality impacts.
 - 1. Proposing to bridge several streams and wetlands to avoid and minimize impacts to jurisdictional features.
 - 2. Minimization of direct discharge of pipe systems into streams, wetlands and buffers where feasible.
 - 3. 2:1 slopes are proposed within wetland areas where practical.

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4. Toe protection proposed in fill sections over wetland areas.

Design/Future:

- 5. Energy dissipator/rip rap pads proposed at jurisdictional areas and buffers to minimize the potential for erosion.
- 6. Stormwater design velocities entering wetland areas have been reduced to non-erosive velocities (less than 2 fps).
- 7. Grassed roadway median/outside ditches as well as grass swale treatments have been used where feasible.
- 8. Open shoulder sections were maximized to promote sheet flow from the roadway payement.
- 9. Roadway side slopes were minimized to the extent practicable and will reduce flow velocities and promote diffuse flow and infiltration down the vegetated fill slopes.
- 10. Sediment and erosion control devices will follow the NCDOT protocol for Environmentally Sensitive Areas where required.
- 11. EC devices will be installed as needed to promote stability and minimize sedimentation during construction.
- 12. No staging of construction equipment or storage of construction supplies in jurisdictional areas during construction.
- 13. Borrow and waste activities will occur outside of jurisdictional areas.

R-2829B is located in the Neuse River Basin and has (17) major crossings including bridges over the Neuse River, Hinton's Creek and the wetlandlands south of the NC 87 interchange, (II) new RCBCs and (1) RCBC extension. Drainage outfalls along the project have been analyzed to verify stability and countersunk Class I and Class II rip rap have been incorporated into the drainage design at the inlet and outlet of all jurisdictional stream crossings. Swales have been designed and incorporated into the project in practicable locations to provide infiltration before water enters jurisdictional streams. Additionally, most of the median and typical outside cut ditches along the entire project median swale design criteria (even at locations where buffered streams are not present) before stormwater enters drainage systems and discharges to jurisdictional features. Other stormwater control measures such as detention basins were investigated in areas such as inside the loops of the interchanges and adjacet to jurisdictional streams, but due to the steep topography in the project area, existing features and project constraints detention basins were not feasible.





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FOR NCDOT PROJECTS Version 3.02; Released April 23, 2024) **WBS Element:** 35517.3.TA2 TIP/Proj No.: R-2829B County(ies): Wake Page 2 of **General Project Information** Waterbody Information Surface Water Body (1): White Oak Creek NCDWR Stream Index No.: 27-43-11 Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: SFV Buffer Rules in Effect: Neuse Deck Drains Discharge Over Buffer? N/A No Project Includes Bridge Spanning Water Body? No Dissipator Pads Provided in Buffer? N/A (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to White Oak Creek NCDWR Stream Index No.: Surface Water Body (2): 27-43-11 Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: SGH Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) Surface Water Body (3): UT to White Oak Creek NCDWR Stream Index No.: 27-43-11 **Primary Classification:** Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: **Buffer Rules in Effect:** Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative)





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			Additional Waterboo	dy Information					
Surface Water Body (4):		UT to White	e Oak Creek	NCDWR Stream Inc	dex No.:		27-43-11		
Other Stream Classification: Impairments: Aquatic T&E Species? NRTR Stream ID: SOS Project Includes Bridge Spanning Water Body?			Primary Classification:	Class C	;				
NCDWR Surface Water Classification to	r water Body		Supplemental Classification:	Nutrient Sensitive Waters (NSW)					
					<u> </u>				
Other Stream Classification:									
Impairments:									
Aquatic T&E Species?		Comments:							
NRTR Stream ID:	SOS					Buffer Rules in Effect:		N	euse
Project Includes Bridge Spanning Water	r Body?		Deck Drains Discharge Over Bu	ffer?		Dissipator Pads Provided i	in Buffer?		
Deck Drains Discharge Over Water Bod	y?		(If yes, provide justification in	the General Project N	Narrative)	(If yes, describe in the Ge			, justify in the
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Surface Water Body (5):		UT to White	e Oak Creek	NCDWR Stream Inc	dex No.:		27-43-11		
NCDWP Surface Water Classification to	r Water Rody		Primary Classification:	Class C	;				
NODWN Gunace Water Glassification to	Water Body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)				
Other Stream Classification:									
Impairments:									
Aquatic T&E Species?		Comments:							
NRTR Stream ID:	PCH					Buffer Rules in Effect:		N	euse
Project Includes Bridge Spanning Water	r Body?		Deck Drains Discharge Over Bu	ffer?		Dissipator Pads Provided i	in Buffer?		
Deck Drains Discharge Over Water Bod	y?		(If yes, provide justification in	the General Project N	Narrative)	(If yes, describe in the Ge	•		, justify in the
(If yes, provide justification in the	General Project Nar	rrative)				Gene	ral Project Nar	rative)	
Surface Water Body (6):		UT to White	e Oak Creek	NCDWR Stream Inc	dex No.:		27-43-11		
NCDWP Surface Water Classification to	r Water Rody		Primary Classification:	Class C					
NODVIN GUITACE WATER GRASSIFICATION TO	Water Body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)				
Other Stream Classification:									
Impairments:									
Aquatic T&E Species?		Comments:							
NRTR Stream ID:	PCI					Buffer Rules in Effect:		N	euse
Project Includes Bridge Spanning Water	r Body?		Deck Drains Discharge Over Bu			Dissipator Pads Provided i			
Deck Drains Discharge Over Water Bod	y?		(If yes, provide justification in	the General Project N	Varrative)	(If yes, describe in the Ge	•		, justify in the
(If yes, provide justification in the	General Project Nar	rrative)				Gene	eral Project Nar	rative)	
Surface Water Body (7):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)		
NCDWR Surface Water Classification fo	r Water Body		Primary Classification:	Class C					
			Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)				
Other Stream Classification:									
mpairments:									
Aquatic T&E Species?		Comments:							
NRTR Stream ID:	SOR					Buffer Rules in Effect:		N	euse
Project Includes Bridge Spanning Water	r Body?		Deck Drains Discharge Over Bu			Dissipator Pads Provided			
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(If yes, describe in the General Project Narrative; if no, justify in the

General Project Narrative)

Deck Drains Discharge Over Water Body?

(If yes, provide justification in the General Project Narrative)

STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS Version 3.02; Released April 23, 2024) TIP No.: R-2829B WBS Element: 35517.3.TA2 County(ies): Wake Page **Additional Waterbody Information** Surface Water Body (8): UT to Neuse River NCDWR Stream Index No.: 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: PAH NRTR Stream ID: **Buffer Rules in Effect:** Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, describe in the General Project Narrative; if no, justify in the (If yes, provide justification in the General Project Narrative) Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) Surface Water Body (9): UT to Neuse River NCDWR Stream Index No.: 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: SGJ Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to Neuse River NCDWR Stream Index No.: Surface Water Body (10): 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to Neuse River NCDWR Stream Index No.: Surface Water Body (11): 27-(22.5) **Primary Classification:** NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer?

(If yes, provide justification in the General Project Narrative)





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WBS Element: 35517.3.TA2	TIP No.:	R-2829B	County(ies):	Wake			Page	5	of 10				
Additional Waterbody Information													
Surface Water Body (12):		UT to Ne	use River	NCDWR Stream Inc	dex No.:	27-(22.5)							
			Primary Classification:	Class C	;		, ,						
NCDWR Surface Water Classification	on for water Body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)								
			,		//								
Other Stream Classification:													
Impairments:													
Aquatic T&E Species?		Comments:											
NRTR Stream ID:	SGQ	•				Buffer Rules in Effect:		N	euse				
Project Includes Bridge Spanning \	Vater Body?		Deck Drains Discharge Over Bu	iffer?		Dissipator Pads Provided i	in Buffer?						
Deck Drains Discharge Over Water			(If yes, provide justification in		Narrative)	(If yes, describe in the Ge		arrative; if no	, justify in the				
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Surface Water Body (13):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)						
• ,	on for Motor Dod.		Primary Classification:	Class C									
NCDWR Surface Water Classification	on for water Body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)								
Other Stream Classification:													
Impairments:													
Aquatic T&E Species?		Comments:											
NRTR Stream ID:	SGR	•				Buffer Rules in Effect:		N	euse				
Project Includes Bridge Spanning V	Vater Body?		Deck Drains Discharge Over Bu	iffer?		Dissipator Pads Provided i	in Buffer?						
Deck Drains Discharge Over Water			(If yes, provide justification in	the General Project N	Varrative)	(If yes, describe in the Ge			, justify in the				
(If yes, provide justification in	the General Project Na				General Project Narrative)								
Surface Water Body (14):		Neuse	e River	NCDWR Stream Inc	dex No.:	27-(22.5)							
NCDWR Surface Water Classification	on for Water Body		Primary Classification:	Class B									
NCDWK Surface Water Classification	on for water body		Supplemental Classification:	Nutrient Sensitive Waters (NSW)									
	AFSA - anad	romous fish											
Other Stream Classification:	spawnir	g area	Primary Nursery Areas										
Impairments:													
Aquatic T&E Species?		Comments:				_							
NRTR Stream ID:	SGS				Buffer Rules in Effect:		N	euse					
Project Includes Bridge Spanning V	Vater Body?	Yes	Deck Drains Discharge Over Bu		No	Dissipator Pads Provided i		No					
Deck Drains Discharge Over Water	Body?	No	(If yes, provide justification in	(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the						
(If yes, provide justification in	the General Project Na	ırrative)				Gene	eral Project Narı	ative)					
Surface Water Body (15):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)						
NCDWR Surface Water Classification	on for Water Body		Primary Classification:	Class C	;								
Trobinit Garlago Trator Glacomoati	on for trator Body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)								
Other Stream Classification:													
Impairments:													
Aquatic T&E Species?		Comments:											
NRTR Stream ID:	SGT					Buffer Rules in Effect:		N	euse				
Project Includes Bridge Spanning V	Vater Body?		Deck Drains Discharge Over Bu			Dissipator Pads Provided in Buffer?							
Deck Drains Discharge Over Water			(If yes, provide justification in	the General Project N	Narrative)	(If yes, describe in the General Project Narrative; if no, justify in the							
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General Project Narrative)

(If yes, provide justification in the General Project Narrative)

FOR NCDOT PROJECTS Version 3.02; Released April 23, 2024) TIP No.: R-2829B WBS Element: 35517.3.TA2 County(ies): Wake Page **Additional Waterbody Information** Surface Water Body (16): UT to Neuse River NCDWR Stream Index No.: 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: SGU NRTR Stream ID: **Buffer Rules in Effect:** Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, describe in the General Project Narrative; if no, justify in the (If yes, provide justification in the General Project Narrative) Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) Surface Water Body (17): UT to Neuse River NCDWR Stream Index No.: 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: SGV Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to Neuse River NCDWR Stream Index No.: Surface Water Body (18): 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to Neuse River NCDWR Stream Index No.: Surface Water Body (19): 27-(22.5) **Primary Classification:** NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body?



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General Project Narrative)

Deck Drains Discharge Over Water Body?

(If yes, provide justification in the General Project Narrative)

STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS Version 3.02; Released April 23, 2024) TIP No.: R-2829B WBS Element: 35517.3.TA2 County(ies): Wake Page **Additional Waterbody Information** Surface Water Body (20): UT to Neuse River NCDWR Stream Index No.: 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: **Buffer Rules in Effect:** Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, describe in the General Project Narrative; if no, justify in the (If yes, provide justification in the General Project Narrative) Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) Surface Water Body (21): UT to Neuse River NCDWR Stream Index No.: 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: SHA Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to Neuse River NCDWR Stream Index No.: Surface Water Body (22): 27-(22.5) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to Neuse River NCDWR Stream Index No.: Surface Water Body (23): 27-(22.5) **Primary Classification:** NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Other Stream Classification: Impairments: Aquatic T&E Species? Comments: NRTR Stream ID: Buffer Rules in Effect: Neuse Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the



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WBS Element: 35517.3.TA2	TIP No.:	R-2829B	County(ies):	Wake			Page	8	of 10		
			Additional Waterboo	dy Information							
Surface Water Body (24):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)				
			Primary Classification:	Class C	;		, , ,				
NCDWR Surface Water Classification fo	r water Body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)						
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Other Stream Classification:											
Impairments:											
Aquatic T&E Species?	Comments:			l .							
NRTR Stream ID:	SHC					Buffer Rules in Effect:		N	euse		
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Surface Water Body (25):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)				
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NCDWR Surface Water Classification fo	r Water Body		Supplemental Classification:	Nutrient Sensitive W							
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Other Stream Classification:											
Impairments:											
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NRTR Stream ID:	SHH	Comments.				Buffer Rules in Effect:		N	euse		
Project Includes Bridge Spanning Water			Deck Drains Discharge Over Bu	ffor?		Dissipator Pads Provided i	in Ruffor?		cusc		
Deck Drains Discharge Over Water Bod	•		(If yes, provide justification in		Varrative)	(If yes, describe in the Ge		iustify in the			
(If yes, provide justification in the		rative)	() ,	,			eral Project Nar		, ,		
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Surface Water Body (26):		UT to Ne	use River NCDWR Stream Index No.:			27-(22.5)					
		OT TO NE	Primary Classification:	Class C			21-(22.5)				
NCDWR Surface Water Classification fo	r Water Body		Supplemental Classification:	Nutrient Sensitive W							
			ouppiemental olassification.	Nutrient Gensiave V	raters (NOVV)						
Other Stream Classification:											
Impairments:											
Aquatic T&E Species?		Comments:									
NRTR Stream ID:	SHL	Comments.				Buffer Rules in Effect:	N	euse			
Project Includes Bridge Spanning Water			Deck Drains Discharge Over Bu	ffor?		Dissipator Pads Provided i	cuse				
Deck Drains Discharge Over Water Bod			(If yes, provide justification in		Jarrative)	(If yes, describe in the General Project Narrative; if no, justify in the					
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(ii yes, provide justification in the	Ocherai i Toject Mar	rauve)						,			
Surface Water Body (27):		LIT to No	una Divar	NCDWP Streem Inc	day No.		27 (22 5)				
Surface Water Body (27):		UT IO NE	use River Primary Classification:	NCDWR Stream Index No.:			27-(22.5)				
NCDWR Surface Water Classification fo	r Water Body			Class C							
			Supplemental Classification:	Nutrient Sensitive W	raters (NSW)						
Other Streem Classification											
Other Stream Classification:											
Impairments:		Commont									
Aquatic T&E Species?	OUE	Comments:				Duffer Dules in Effect					
NRTR Stream ID:	SHE		Dook Dusing Discharge Over 2	-ff2		Buffer Rules in Effect:	in Duffe-O	N	euse		
Project Includes Bridge Spanning Water	•		Deck Drains Discharge Over Bu (If yes, provide justification in		Jarrativo)	Dissipator Pads Provided in (If yes, describe in the Ge		larrativo: if no	justify in the		
Deck Drains Discharge Over Water Bod			(ii yes, provide justilication in	ilie Gellelai Floject N	variative)		eral Project Nar		, justily ill tile		
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WBS Element: 35517.3.TA2	TIP No.:	R-2829B	County(ies):	Wake			Page	9	of 10	
			Additional Waterbo	dy Information						
Surface Water Body (28):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)			
NCDWR Surface Water Classification for		Primary Classification:	Class C	;						
NODWK Surface Water Classification to	i water body		Supplemental Classification:	Nutrient Sensitive Waters (NSW)						
Other Stream Classification:										
Impairments:										
Aquatic T&E Species?		Comments:		•						
NRTR Stream ID:	PAM					Buffer Rules in Effect:		N	leuse	
Project Includes Bridge Spanning Water Body?			Deck Drains Discharge Over Bu	ıffer?		Dissipator Pads Provided	in Buffer?			
Deck Drains Discharge Over Water Body?			(If yes, provide justification in	the General Project N	Narrative)	(If yes, describe in the Ge	neral Project Na	arrative; if no	, justify in the	
Deck Drains Discharge Over Water Body? (If yes, provide justification in the General Project N		rative)	Ī			Gene	eral Project Narr	ative)		
		·								
Surface Water Body (29):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)			
NCDWR Surface Water Classification for	r Water Body		Primary Classification:	Class C						
NODWK Surface Water Classification to	i water body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)					
Other Stream Classification:										
Impairments:										
Aquatic T&E Species?		Comments:								
NRTR Stream ID:	SHM					Buffer Rules in Effect:		N	leuse	
Project Includes Bridge Spanning Wate	r Body?		Deck Drains Discharge Over Bu	ıffer?		Dissipator Pads Provided	in Buffer?			
Deck Drains Discharge Over Water Bod			(If yes, provide justification in	the General Project N	Narrative)	(If yes, describe in the Ge	neral Project Na	arrative; if no	, justify in the	
(If yes, provide justification in the		rative)	Ī			Gene	ral Project Narr	ative)		
Surface Water Body (30):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)			
NCDWR Surface Water Classification for	r Water Body		Primary Classification:	Class C)					
NODWK Surface Water Classification to	i water body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)					
Other Stream Classification:										
Impairments:										
Aquatic T&E Species?		Comments:				_				
NRTR Stream ID:	SHN					Buffer Rules in Effect:		N	leuse	
Project Includes Bridge Spanning Wate	r Body?		Deck Drains Discharge Over Bu	ıffer?		Dissipator Pads Provided	in Buffer?			
Deck Drains Discharge Over Water Bod	y?		(If yes, provide justification in	the General Project N	Narrative)	(If yes, describe in the Ge			, justify in the	
(If yes, provide justification in the	General Project Nar	rative)				General Project Nar				
Surface Water Body (31):		UT to Ne	use River	NCDWR Stream Inc	dex No.:		27-(22.5)			
NCDWR Surface Water Classification for	r Water Rody		Primary Classification:	Class C						
NODVIK Gariace Water Glassification is	Water Body		Supplemental Classification:	Nutrient Sensitive W	/aters (NSW)					
Other Stream Classification:										
Impairments:										
Aquatic T&E Species?		Comments:								
NRTR Stream ID:	SAAJ					Buffer Rules in Effect:		N	leuse	
Project Includes Bridge Spanning Wate	r Body?		Deck Drains Discharge Over Bu	ıffer?		Dissipator Pads Provided	in Buffer?			
Deck Drains Discharge Over Water Bod			(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the				
Deek Brains Discharge Over Water Boa	y?		(If yes, provide justification in	the General Project N	Narrative)				, justify in the	
(If yes, provide justification in the		rative)	(If yes, provide justification in	the General Project N	Narrative)		neral Project Narr eral Project Narr		o, justify in the	



Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS

(Version 3.02; Released April 23, 2024)

WBS Element: 35517.3.TA2

TIP/Proj No.: R-2829B

County(ies): Wake Page 10 of

						000111011712					TTUITE							<u>v.</u>	
											Swale								
Sheet No.	Line	Station	Location (LT,RT,CL)	Latitude	Longitude	Surface Water Body	Base Width (ft)	Front Slope (H:1)	Back Slope (H:1)	Drainage Area (ac)	Recommended Treatm't Length (ft)	Actual Length (ft)	Longitudinal Slope (%)	Q2 (cfs)	V2 (fps)	Q10 (cfs)	V10 (fps)	Rock Checks Used	BMP Associated w/ Buffer Rules?
13	LB	1323+44	RT	35.7261	-78.50585	(14)Neuse River	5.0	3.0	3.0	5.1	511	370	0.70%	14.5	1.8	18.6	2.0	No	Yes
13	LB	1322+00	LT	35.72578	-78.50697	(14)Neuse River	6.0	4.0	4.0	18.2	1821	552	0.60%	65.1	2.6	83.6	2.9	No	Yes
14	Y29RPA	24+10	RT	35.73206	-78.05083	(14)Neuse River	0.0	6.0	4.0	0.1	14	98	1.70%	0.4	0.8	0.5	0.8	No	Yes
16	LB	1380+50	LT	35.74164	-78.50905	(14)Neuse River	2.0	3.0	3.0	1.6	160	305	3.17%	3.9	2.7	5.0	3.0	Yes	Yes
16	LB	1379+70	RT	35.74157	-78.50767	(14)Neuse River	2.0	3.0	3.0	1.5	153	136	1.43%	4.7	1.9	6.1	2.0	No	Yes
16	LB	1380+18	RT	35.74168	-78.50788	(14)Neuse River	2.0	3.0	3.0	1.6	163	283	4.00%	4.1	3.2	5.2	3.5	No	Yes
16,17	LB	1383+00	LT	35.74233	-78.50916	(14)Neuse River	3.0	3.0	3.0	2.0	199	350	2.50%	5.5	2.5	6.3	2.8	Yes	Yes
17	L	1390+50	RT	35.7445	-78.50825	(14)Neuse River	5.0	3.0	3.0	4.9	493	214	2.80%	18.8	4.2	24.1	4.6	Yes	Yes
31	Y29	8+93	LT	35.72715	-78.51353	(14)Neuse River	6.0	3.0	3.0	8.6	864	558	0.40%	26.1	1.6	33.5	1.8	No	Yes
33	Y29	44+28	LT	35.73128	-78.50300	(14)Neuse River	0.0	3.0	3.0	2.1	210	102	0.40%	5.9	0.9	7.6	1.0	Yes	Yes
33	Y29	49+80	LT	35.73192	-78.50135	(14)Neuse River	5.0	4.0	4.0	4.2	415	85	0.40%	11.7	1.2	15.0	1.0	No	Yes
											Additional Commer	nts							