



Agenda Item	Presenter	Attachment	Action
Call to Order / Ethics Awareness / Introductions	Bruce Eckard		
Technical Coordinating Committee (TCC) Report	Brian Horton		Information Item
Minutes of April 27, 2022 Meeting	Bruce Eckard	<a href="#">Attachment I</a>	Approve Minutes
Transportation Improvement Program Revisions for NC Board of Transportation	Brian Horton	<a href="#">Attachment II</a>	Approve by Resolution
Endorsement of Bicycle and Pedestrian Planning Grant for City of Conover	Brian Horton	<a href="#">Attachment III</a>	Approve by Resolution
Natural Environment Chapter for 2050 MTP	Averi Ritchie	<a href="#">Attachment IV</a>	Information Item
Financial Plan Scenario for 2050 MTP	Brian Horton	<a href="#">Attachment V</a>	Information Item
NCDOT Updates	Brad Lail		
Board of Transportation	Andy Wells		
Division 11	Mike Pettyjohn		
Division 12	Mark Stafford	Project Updates	
Division 13	Mark Gibbs		
Transportation Planning Division	Pam Cook	TPD Newsletter	
Public Comment / Announcements	Bruce Eckard		
Adjournment	Bruce Eckard		
Next Meeting: June 22, 2022			

**Reminder:** In accordance with the State Government Ethics Act, it is the duty of every TAC member to avoid any conflicts of Interest. Does any TAC or TCC member have any known conflict of interest with respect to any matters coming before the TAC today? If so, please identify the conflict and refrain from any participation in the matter involved.



**GREATER HICKORY  
METROPOLITAN PLANNING ORGANIZATION (MPO)**  
1880 2<sup>nd</sup> Avenue NW, PO Box 9026  
Hickory, NC 28603



**MINUTES**  
**GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION (GHMPO)**  
**METROPOLITAN TRANSPORTATION ADVISORY COMMITTEE (TAC)**  
Wednesday, April 27, 2022, 2:30 pm, In-person meeting and via Zoom

Present			Absent		
First Name	Last Name	Representing	First Name	Last Name	Representing
Andy	Wells	Board of Transportation At-Large	Barry	Mitchell	Town of Hudson
Brad	Lail	Board of Transportation – Div. 12	Bob	Sigmon	Town of Maiden
Barbara	Beatty	Catawba County	Larry	Yoder	Alexander County
Bruce	Eckard	City of Conover	Jody	York	Town of Hildebran
Hank	Guess	City of Hickory (1 of 2)	Jill	Patton	City of Hickory (2 of 2)
Donald	Robinson	Town of Catawba	Ralph	Prestwood	City of Lenoir
Jerry	Hodge	City of Newton	Richard	Andrews	Town of Cahaj's Mountain
Joyce	Karn	Town of Rhodhiss			
Kim	Angel	WPRTA	VACANT		Brookford
Les	Morrow	City of Claremont	VACANT		Caldwell County
Martin	Townsend	Town of Granite Falls	VACANT		Cedar Rock
Maynard	Taylor	Burke County	VACANT		Connelly Springs
Rexanna	Lowman	Town of Valdese	VACANT		Drexel
Wendy	Cato	City of Morganton	VACANT		Gamewell
			VACANT		Glen Alpine
			VACANT		Long View
			VACANT		Rutherford College
			VACANT		Sawmills
<b>WPCOG, FHWA, NC Board of Transportation, &amp; Guests</b>			<b>NCDOT Staff</b>		
Alison Adams – WPCOG			Mike Pettyjohn – Div. 11		
Brian Horton – WPCOG			Mark Stafford – Div. 12		
Jess Odette – WPCOG			Anil Panicker – Div. 12		
			Dean Ledbetter – Div. 12		
Loretta Barren – FHWA			Chris Guffey – Div. 13		
			Hannah Cook – Div. 13		
Logan Shook – Town of Hildebran			Stephen Sparks – Div. 13		
			Marshall Williams – Div. 13		
			Pam Cook – TPD		

**Call to Order and Introductions** – TAC Chair Bruce Eckard called the meeting to order and welcomed all present at 2:30 PM. Introductions were made around the room. Rexanna Lowman and Wendy Cato joined the meeting remotely via Zoom. Upon a motion by Mr. Guess and a second by Mr. Townsend, the TAC unanimously approved remote participation of the listed TCC members. Chair Eckard reminded members of Ethics Awareness.

**Technical Coordinating Committee (TCC) Report** – Mr. Horton informed members that all items from the prior TCC meeting had been unanimously recommended to TAC.

**Action Items:**

- I. **Approval of Minutes** – Chair Eckard asked members if they had a chance to review the minutes. Upon a motion from Mr. Hodge and a second by Mr. Townsend, the TAC unanimously approved the minutes from their March 23, 2022, meeting.
- II. **Transportation Improvement Program (TIP) Revision for Board of Transportation** – Mr. Horton presented the TIP revisions previously released for public comment and noted that no comments had been received. Upon a motion by Mr. Hodge and a second by Mr. Townsend, the TAC unanimously approved the TIP Revisions in Item II.

- III. Transportation Improvement Program (TIP) Revision for City of Hickory** – Mr. Horton noted this TIP revision supported the recently endorsed Congestion Mitigation Air Quality (CMAQ) application received from City of Hickory for C-5196 Sandy Ridge Road to add \$502,146 in supplemental CMAQ funding for right-of-way, plus add \$1,000,000 in supplemental CMAQ funding for construction. Upon a motion by Mr. Guess and a second by Mr. Taylor, the TAC unanimously approved the TIP Revisions in Item III.
- IV. Release of New TIP Revisions** – Mr. Horton presented new TIP revisions that correspond to those also released by the Board of Transportation. Upon a motion by Mr. Taylor and a second by Mr. Hodge, the TAC unanimously approved releasing for public comment the TIP Revisions in Item IV.
- V. Update on Development of the 2024-2033 State Transportation Improvement Program (STIP)** – Mr. Horton presented the early draft of the STIP that had just been released by NCDOT on April 25, 2022. Mr. Horton showed which of the previously identified “at-risk” or “re-evaluation” projects now either had “advanced to delivery” (2 in Caldwell and 3 in Catawba), “remain development” (6 in Burke and 2 in Catawba), or “newly unfunded” (2 in Burke and 2 in Catawba). Mr. Taylor asked how to explain the loss of so many interchange projects in Burke County. Mr. Lail clarified that the funding situations were not the result of any local government officials or staff. Mr. Horton also shared the possibility of swapping projects, if their combined costs did not exceed 110% of the replaced project(s). Mr. Horton noted that only Burke and Catawba have the option to possibly benefit from a swap, and that follow-up coordination would happen between local governments and NCDOT. As this was an information item, no action was needed.
- VI. Draft Changes to Comprehensive Transportation Plan (CTP)** – Mr. Horton presented how early proposed changes to the CTP, following engagement with area local governments. Mr. Horton summarized the draft changes as removing multiple future new alignments and median-divided widening projects, while re-classifying multiple existing corridors as Other Major Thoroughfare Needs Improvement to support future modernization projects. Mr. Wells commented that changing the culture of addressing needs without major corridor projects would remain a challenge. As this was an information item, no action was needed.

**NCDOT Update –**

- **NC Board of Transportation** – Mr. Lail expanded upon his earlier comments, stressing the need to have meaningful years and terms in the new STIP that match public trust on project schedule and delivery. Mr. Wells commented on how projects in eastern NC remained funded, despite comparatively less cost-benefit.
- **Division 11** – Mr. Pettyjohn noted that rehab work on the southbound 321 bridge was starting.
- **Division 12** – Mr. Stafford shared a projects update.
- **Division 13** – Ms. Hannah Cook noted minimal remaining work on Exit 112 should still be completed by this summer.
- **NCDOT-TPD** – Ms. Pam Cook shared her update via the TPD Newsletter.

**Public comments or announcements:** None

**Adjournment** – As there was no other business, Vice Chair Beatty adjourned the TAC at 3:30 PM. The next meeting is scheduled for May 25, 2022 at 2:30 PM

Respectfully Submitted,

---

Bruce Eckard, MPO/TAC Chair

---

Brian Horton, TAC Secretary



**GREATER HICKORY  
METROPOLITAN PLANNING ORGANIZATION (MPO)**  
1880 2<sup>nd</sup> Avenue NW, PO Box 9026  
Hickory, NC 28603



**RESOLUTION ADOPTING MODIFICATIONS TO THE  
TRANSPORTATION IMPROVEMENT PROGRAM (TIP) FY 2020-2029**

A motion was made by \_\_\_\_\_ and seconded by \_\_\_\_\_ for the adoption of the following resolution, and upon being put to a vote was duly adopted.

**WHEREAS**, the following modifications have been proposed for FY 2020-2029 Transportation Improvement Program (TIP):

See page 2 of this Attachment

**WHEREAS**, the MPO certifies that these TIP modifications are consistent with the intent of the adopted 2045 Metropolitan Transportation Plan (MTP);

**NOW THEREFORE be it resolved**, by the Greater Hickory MPO Transportation Advisory Committee (TAC) that the TIP FYs 2020-2029 be modified as listed above on this, the 25<sup>th</sup> day of May, 2022.

---

Bruce Eckard  
Greater Hickory MPO TAC Chair

---

Brian Horton  
Greater Hickory MPO TAC Secretary

**REVISIONS TO THE 2020-2029 TIP  
HIGHWAY PROGRAM**

GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION

**STIP MODIFICATIONS**

BL-0001 BURKE <b>PROJ.CATEGORY</b> DIVISION	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION	MAIN AVENUE EAST, 2ND STREET SE TO US 70. CONSTRUCT PEDESTRIAN IMPROVEMENTS. <b><u>TO ALLOW ADDITIONAL TIME FOR PRELIMINARY ENGINEERING, DELAY RIGHT-OF-WAY FROM FY 22 TO FY 23.</u></b>	ENGINEERING	FY 2022 -	\$64,000	(BGDA)
				FY 2022 -	\$16,000	(L)
			RIGHT-OF-WAY	FY 2023 -	\$80,000	(BGDA)
				FY 2023 -	\$20,000	(L)
			CONSTRUCTION	FY 2023 -	\$272,000	(BGDA)
	FY 2023 -	\$68,000	(L)			
					\$520,000	
EB-5827 BURKE <b>PROJ.CATEGORY</b> DIVISION	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION	FONTA FLORA TRAIL, FONTA FLORA STATE TRAIL, INTERSECTION OF LAUREL RIDGE COURT AND NORTH POWERHOUSE ROAD TO THE PROPOSED HARRIS WHISNANT TRAILHEAD AT THE INTERSECTION OF HARRY WHISNANT ROAD AND COBB ROAD. CONSTRUCT BICYCLE AND PEDESTRIAN FACILITY. <b><u>TO ALLOW ADDITIONAL TIME FOR PRELIMINARY ENGINEERING, DELAY RIGHT-OF-WAY FROM FY 22 TO FY 23.</u></b>	RIGHT-OF-WAY	FY 2023 -	\$410,000	(BGDA)
				FY 2023 -	\$216,000	(L)
					\$626,000	
* R-2307B CATAWBA IREDELL <b>PROJ.CATEGORY</b> REGIONAL	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION	NC 150, EAST OF SR 1840 (GREENWOOD ROAD) IN CATAWBA COUNTY TO WEST OF SR 1303/SR 1180 (PERTH ROAD/DOOLIE ROAD) IN IREDELL COUNTY. WIDEN TO 4-LANES. SR 1383/SR 1180 TO US 21 IN IREDELL COUNTY. WIDEN TO 6-LANES. <b><u>PROJECT TO NO LONGER UTILIZE BUILD NC BONDS.</u></b>	CONSTRUCTION	FY 2025 -	\$265,000	(BGDA)
				FY 2025 -	\$8,603,000	(T)
	FY 2025 -			\$53,000	(S(M))	
	FY 2026 -			\$1,499,000	(BGDA)	
	FY 2026 -			\$48,616,000	(T)	
	FY 2026 -			\$299,000	(S(M))	
	FY 2027 -			\$1,328,000	(BGDA)	
	FY 2027 -			\$43,090,000	(T)	
	FY 2027 -			\$265,000	(S(M))	
	FY 2028 -			\$1,094,000	(BGDA)	
	FY 2028 -			\$35,486,000	(T)	
	FY 2028 -			\$219,000	(S(M))	
	FY 2029 -			\$814,000	(BGDA)	
FY 2029 -	\$26,405,000	(T)				
FY 2029 -	\$163,000	(S(M))				
		\$168,199,000				

\* INDICATES FEDERAL AMENDMENT

Also released as STIP Revisions at NC Board of Transportation on Thursday, March 10, 2022



**GREATER HICKORY  
METROPOLITAN PLANNING ORGANIZATION (MPO)**  
1880 2<sup>nd</sup> Avenue NW, PO Box 9026  
Hickory, NC 28603



**RESOLUTION OF SUPPORT FOR THE PEDESTRIAN  
PLANNING GRANT APPLICATION BY CITY OF CONOVER**

A motion was made by \_\_\_\_\_ and seconded by \_\_\_\_\_ for the adoption of the following resolution, and upon being put to a vote was duly adopted.

**WHEREAS**, the North Carolina Department of Transportation has established a Bicycle and Pedestrian Planning Grant Initiative which provides funding to projects that will result in a comprehensive update to local and pedestrian transportation plans for North Carolina municipalities; and,

**WHEREAS**, the City of Conover has applied for funding from the Department of Transportation for municipal pedestrian plan; and,

**WHEREAS**, the application for these funds requires endorsement of the Greater Hickory Metropolitan Planning Organization serving the City of Conover; and,

**WHEREAS**, the Transportation Advisory Committee of the Greater Hickory Metropolitan Planning Organization feels it to be in the best interest of the region to endorse the application for these funds and the completion of a comprehensive update to the pedestrian plan for the city;

**NOW, THEREFORE, BE IT RESOLVED** that the Greater Hickory Metropolitan Planning Organization Transportation Advisory Committee hereby endorses the application for the Pedestrian Planning Grant by the City of Conover and if the project is selected, will provide technical assistance as requested for the duration of the project.

Adopted this 25<sup>th</sup> day of May, 2022.

\_\_\_\_\_  
Bruce Eckard  
Greater Hickory MPO TAC Chair

\_\_\_\_\_  
Brian Horton  
Greater Hickory MPO TAC Secretary



**Western Piedmont**  
Council of Governments

*Creative Regional Solutions Since 1968*

# Natural & Human Environment

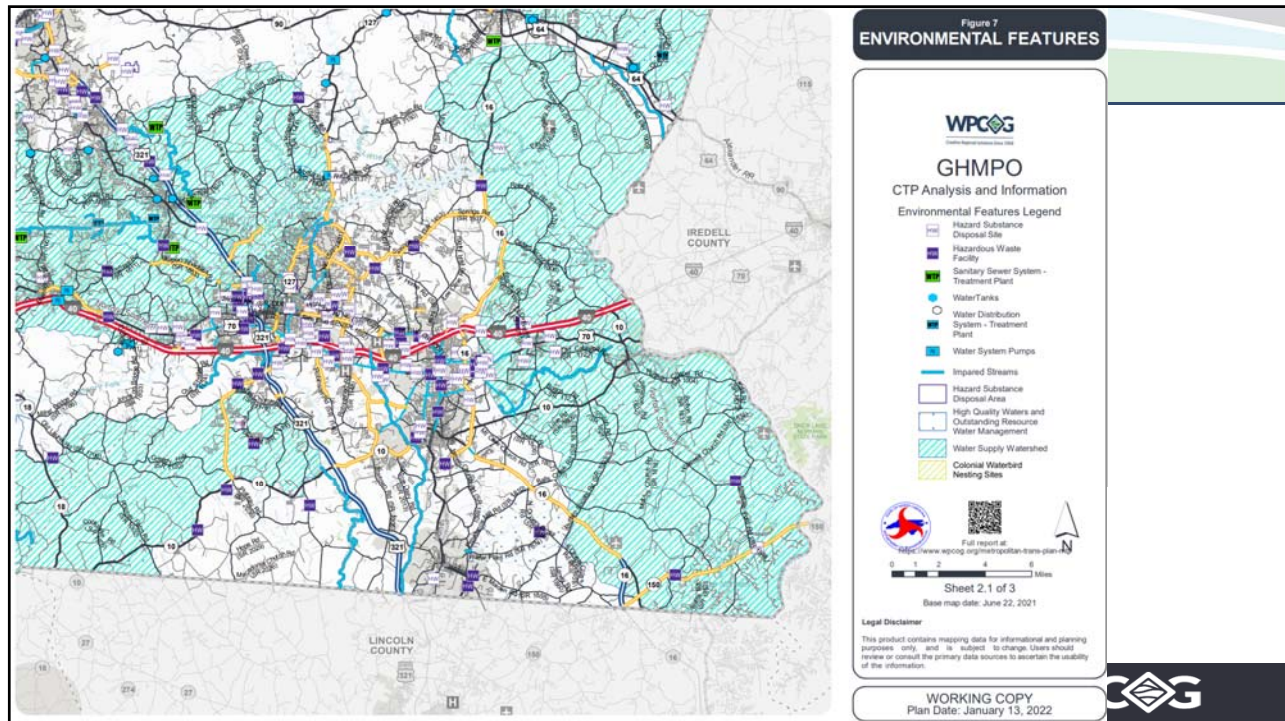
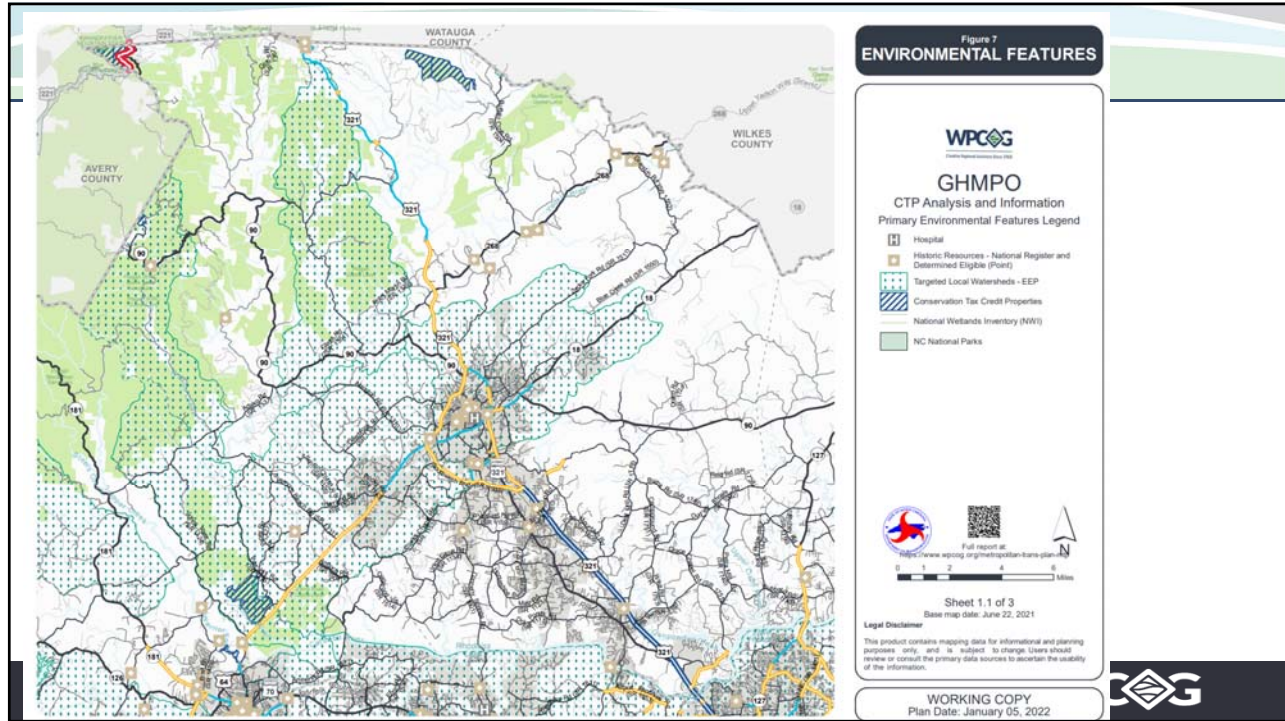
May 2022

## Environmental Score

### Environmental Features

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• 24k Hydro Lines</li> <li>• 303D Streams</li> <li>• Airport Boundaries</li> <li>• Anadromous Fish Spawning Areas</li> <li>• APNEP - Submerged Aquatic Vegetation</li> <li>• Beach and Waterfront Access</li> <li>• Benthic Habitat</li> <li>• Bicycle Routes</li> <li>• Boating Access</li> <li>• Churches and Cemeteries</li> <li>• Colleges and Universities (Points)</li> <li>• Conservation Tax Credit Properties</li> <li>• Critical Habitat for Threatened and Endangered Species</li> <li>• Emergency Operation Centers</li> <li>• Fish Nursery Areas</li> <li>• Hazard Substance Disposal Sites (points &amp; polygons)</li> <li>• Hazardous Waste Facilities</li> <li>• High Quality Waters and Outstanding Resource Water Management</li> <li>• Historic Resources – National Register and Determined Eligible (points and polygons)</li> <li>• Hospitals</li> </ul> | <ul style="list-style-type: none"> <li>• Hydrography - 1:24,000-scale (polygons)</li> <li>• Landscape Habitat Indicator Guilds (LHIGs) Managed Areas</li> <li>• National Wetlands Inventory (polygons)</li> <li>• Natural Heritage Element Occurrences</li> <li>• NC-CREWS: N.C. Coastal Region Evaluation of Wetland Significance</li> <li>• NC National Parks</li> <li>• NCDOT Maintained Mitigation Sites</li> <li>• Railroads (1:24,000)</li> <li>• Recreation Projects - Land and Water Conservation Fund</li> <li>• Regional Trails</li> <li>• Sanitary Sewer Systems - Treatment Plants</li> <li>• Schools (Public &amp; Non-Public)</li> <li>• Significant Natural Heritage Areas</li> <li>• State Natural and Scenic Rivers</li> <li>• State Parks</li> <li>• Target Local Watersheds - EEP</li> <li>• Trout Streams (DWQ)</li> <li>• Trout Waters WRC (arcs &amp; polygons)</li> <li>• Unique Wetlands</li> <li>• Water Distribution Systems – Tanks &amp; Treatment Plants</li> <li>• Water Supply Watersheds</li> </ul> |
|--|---|





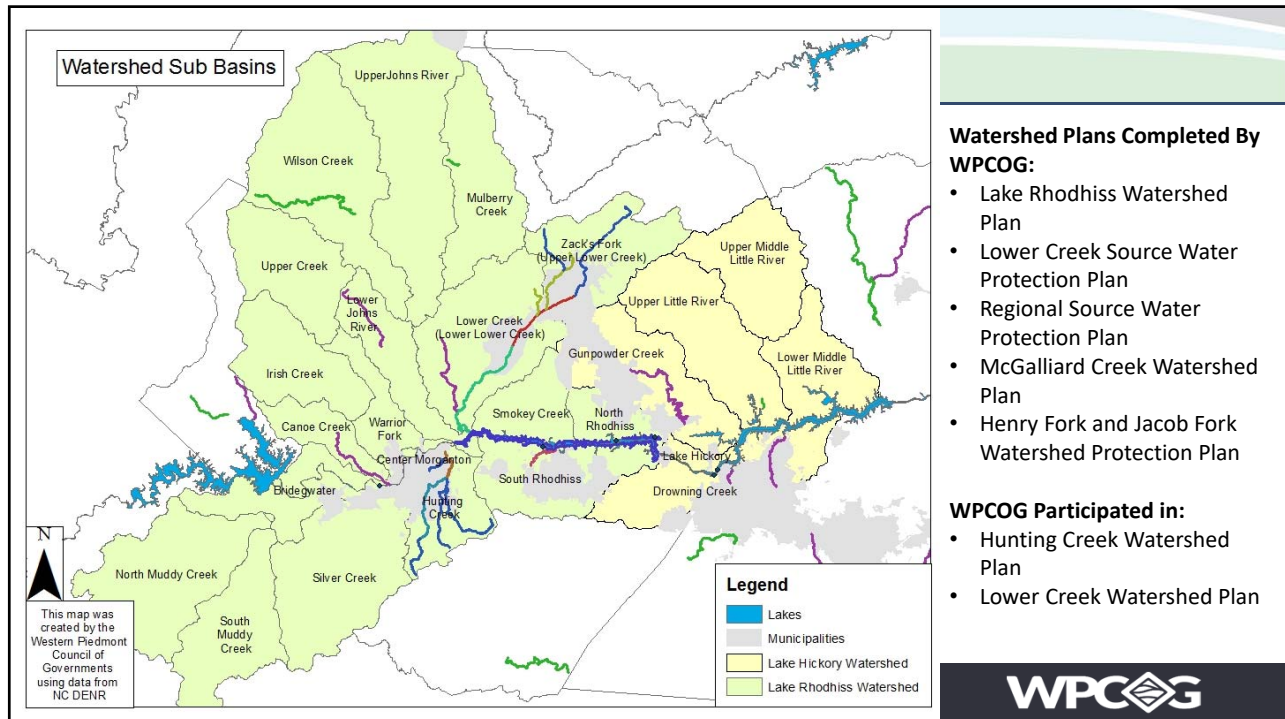




**Western Piedmont**  
Council of Governments

*Creative Regional Solutions Since 1968*

# Watershed Plans



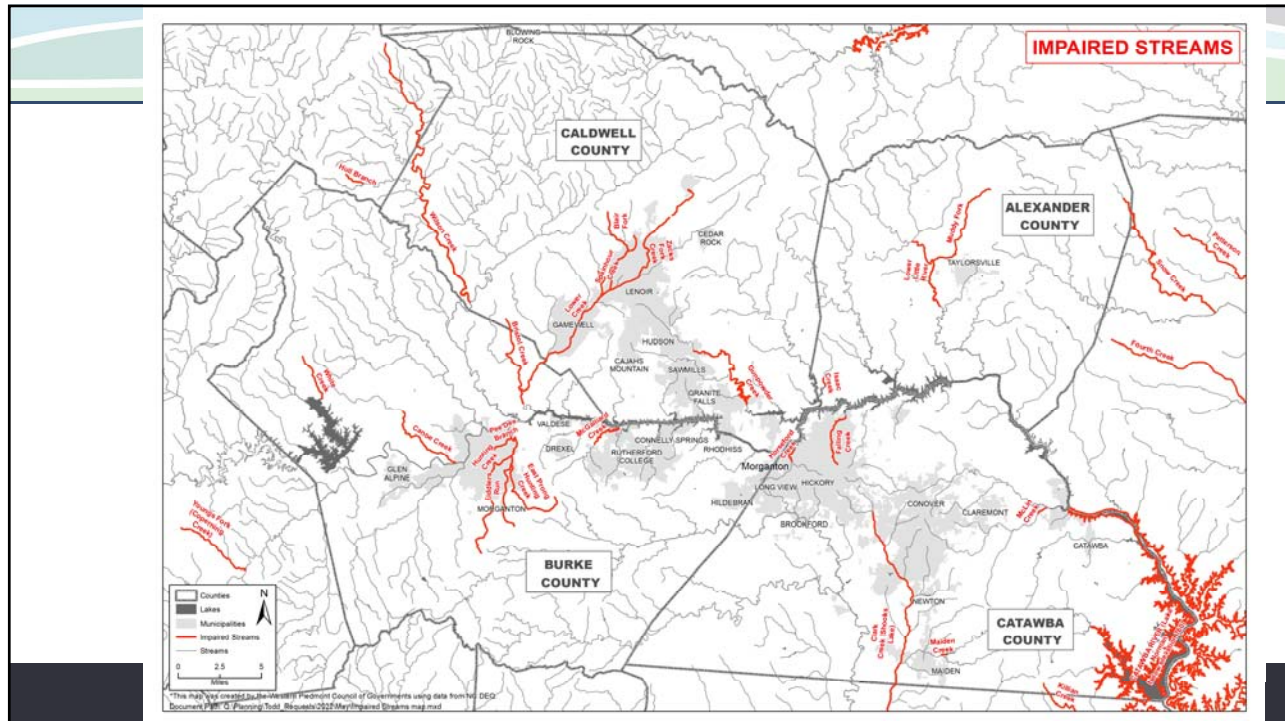
**Watershed Plans Completed By WPCOG:**

- Lake Rhodhiss Watershed Plan
- Lower Creek Source Water Protection Plan
- Regional Source Water Protection Plan
- McGalliard Creek Watershed Plan
- Henry Fork and Jacob Fork Watershed Protection Plan

**WPCOG Participated in:**

- Hunting Creek Watershed Plan
- Lower Creek Watershed Plan





**Western Piedmont**  
Council of Governments

*Creative Regional Solutions Since 1968*

# Stormwater Planning and Administration

## New Programs and Positions

- Stormwater Administrator
- Stormwater Outreach and Education Coordinator
- Septic Tank Repair Program
- Stormwater Management Program offered to municipalities:
  - Public Education and Outreach on Storm Water Impacts
  - Public Involvement and Participation
  - Illicit Discharge Detection and Elimination
  - Construction Site Stormwater Runoff Control
  - Post-Construction Storm Water Management in New Development and Redevelopment
  - Pollution Prevention/Good Housekeeping for Municipal Operations



## Stormwater Planning and Administration

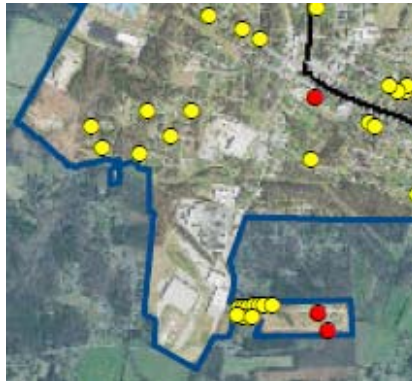
- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• All Elements:           <ul style="list-style-type: none"> <li>• Lenoir</li> <li>• Gamewell</li> <li>• Sawmills</li> <li>• Granite Falls</li> <li>• Cahah's Mountain</li> <li>• Hudson</li> <li>• Conover</li> <li>• Valdese</li> <li>• Newton</li> <li>• Rutherford College</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Outreach:           <ul style="list-style-type: none"> <li>• Hickory</li> <li>• Morganton</li> <li>• Maiden</li> </ul> </li> </ul> |
|--|---|



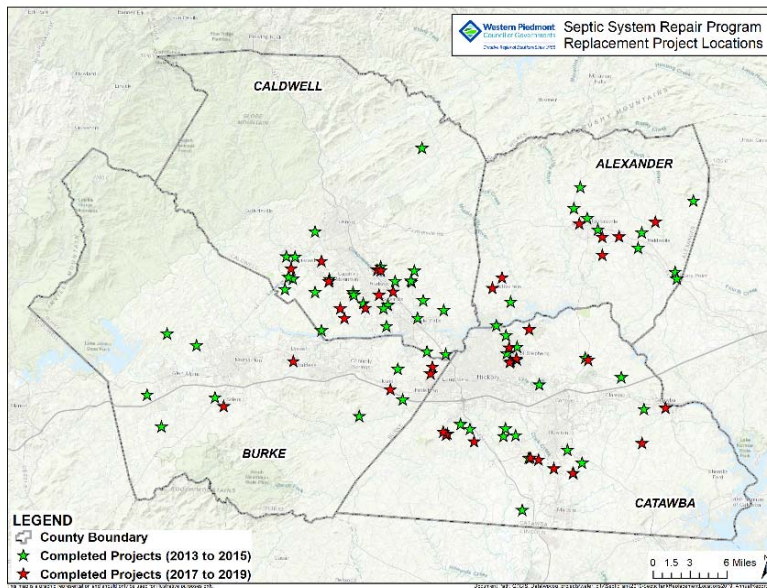
## Illicit Discharge Detection and Elimination

### Violation Status

- New Violation
- Owner Notified
- Cited
- Resolved



## Septic Tank Grants



## Public Education and Outreach and Public Participation



## Annual Air and Water Quality Conference



## Water Resources Committee



WPCOG

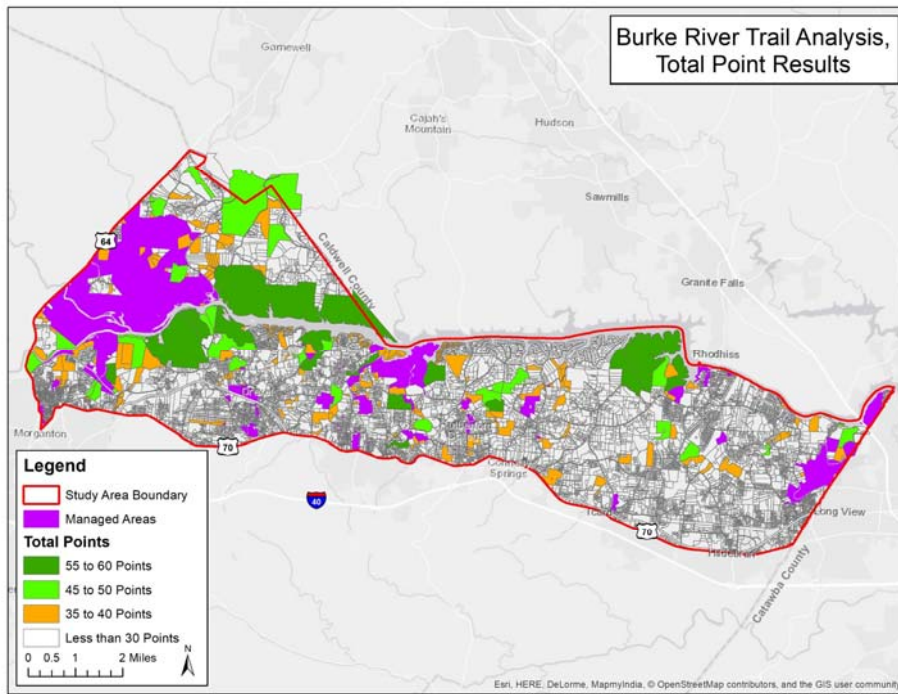
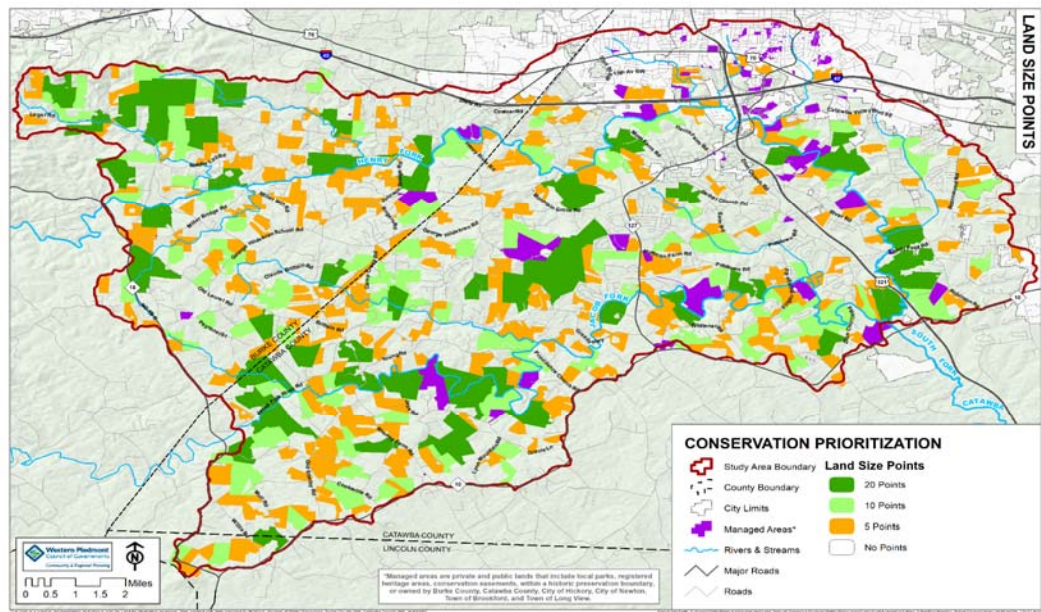


**Western Piedmont**  
Council of Governments

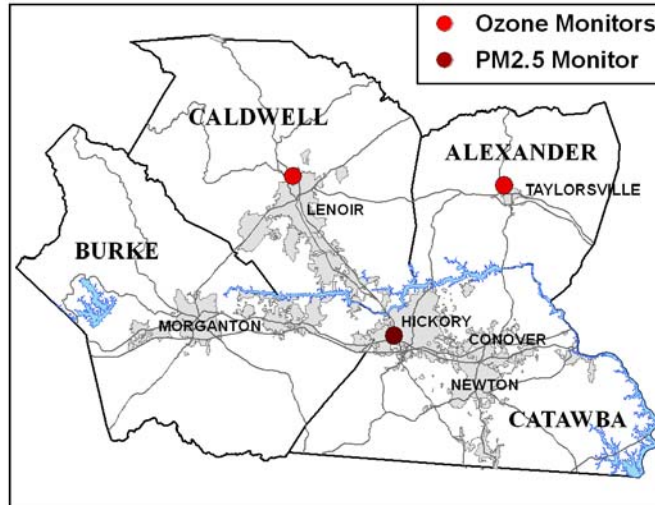
*Creative Regional Solutions Since 1968*

# Trail and Conservation Planning

# Henry Fork and Jacob Fork Conservation Plan



## Ozone and PM 2.5 Monitor Locations



## Updated Ozone Data

Table 9-1.  
Fourth Highest 8-Hour Ozone Values (parts per billion), 2011-2021

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Tylorsville (Alexander Co.)	67	67	50	64	65	66	62	64	61	53	62
Lenoir (Caldwell Co.)	66	64	62	61	65	66	63	65	60	52	61

Table 9-2  
Number of 8 Hour Exceedances at Regional Ozone Monitors 2011-2021

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Tylorsville (Alexander Co.)	3	2	0	0	0	0	0	0	0	0	0
Lenoir (Caldwell Co.)	0	1	0	0	0	0	0	0	0	0	0

Table 9-3.  
Fourth Highest 8-Hour Ozone 3-Year Averages (or Design Values) (parts per billion), 2011-2020

	2011-2013	2013-2015	2015-2017	2016-2018	2017-2019	2018-2020
Tylorsville (Alexander Co.)	65	64	64	64	62	59
Lenoir (Caldwell Co.)	64	62	64	64	62	59

\*\*Based on the updated 70 parts per billion standard (updated in 2015)





## Updated PM 2.5 Data

Table 9-4  
Annual 2.5 Averages (micrograms per cubic meter) 2011-2021

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Hickory Water Tower	10.4	9.3	8.9	9.1	8.7	9.1	8.5	8.1	8.3	7.6	9.0

\*\*Based on 12 micrograms per cubic meter

Table 9-5  
Annual 2.5 3-Year Averages (micrograms per cubic meter) 2011-2021

	2011-2014	2012-2015	2013-2016	2014-2017	2015-2018	2016-2019	2017-2020	2018-2021
Hickory Water Tower	9.5	9.1	8.9	9.0	8.8	8.6	8.3	8.0



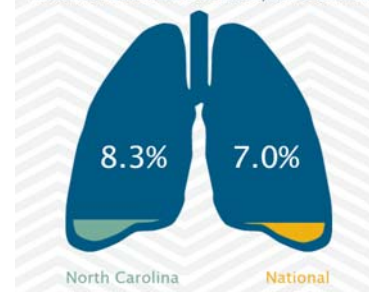
## Health Factors: PM 2.5 and Ozone

County	Fatal Heart Attack Rate by County	NC Fatal Heart Attack Rate
Alexander	20	3,195
Burke	29	
Caldwell	42	
Catawba	69	

2 Blocks from Major Highway


County	Residential	Public Schools (PreK-4th)
Alexander	0	0
Burke	1.90%	6.50%
Caldwell	2.50%	19.20%
Catawba	2.20%	0

Percent of adults who currently have asthma



## Takeaways -

- GHMPO is in attainment for PM 2.5 and Ozone
- PM 2.5 & Ozone must be closely monitored to prevent health repercussions
- New stormwater and conservation planning services are now offered
- Every road project will receive an environmental score from the GHMPO

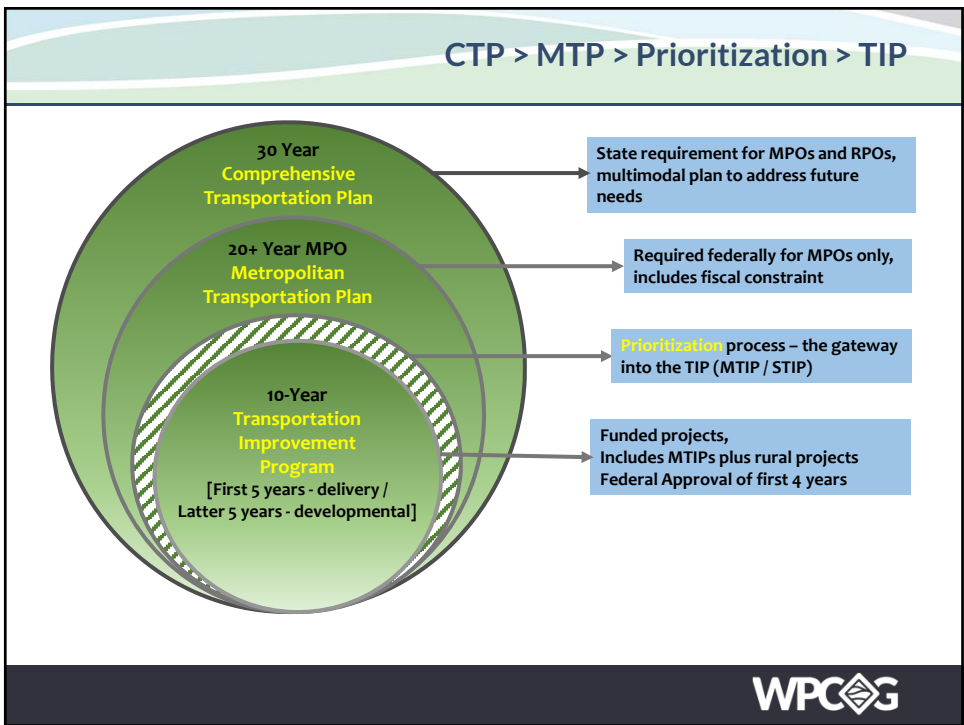



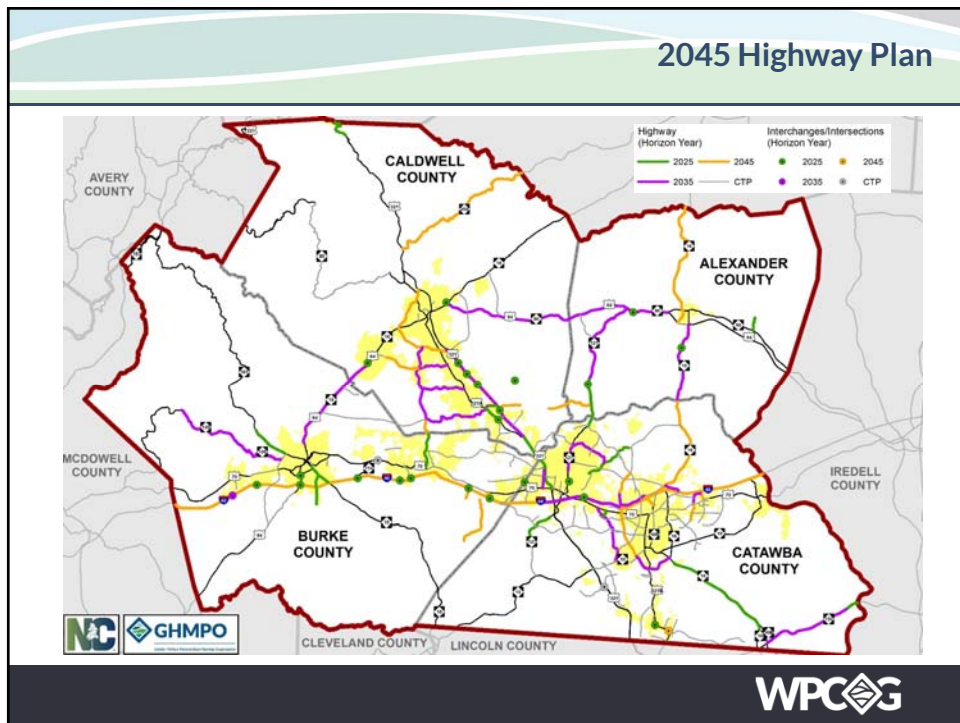
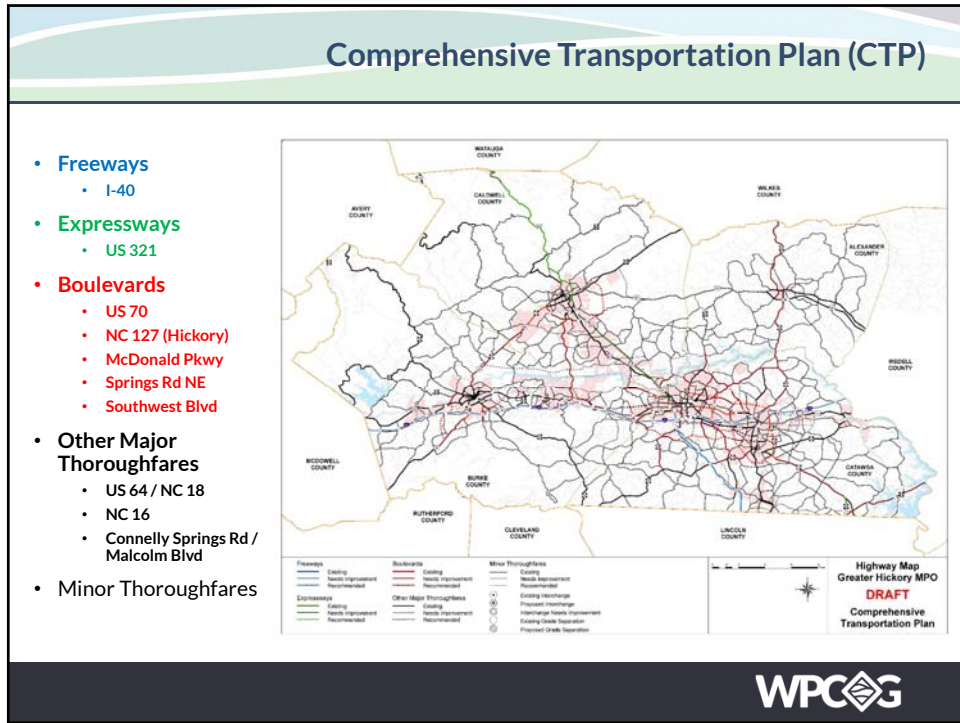
**Western Piedmont**  
Council of Governments  
*Creative Regional Solutions Since 1968*

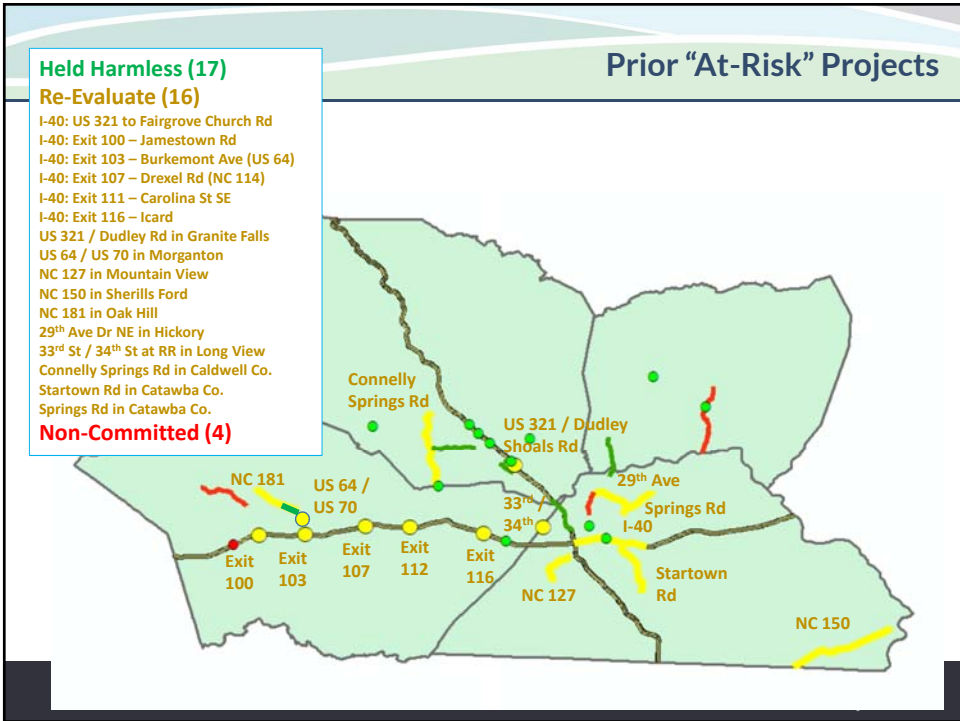
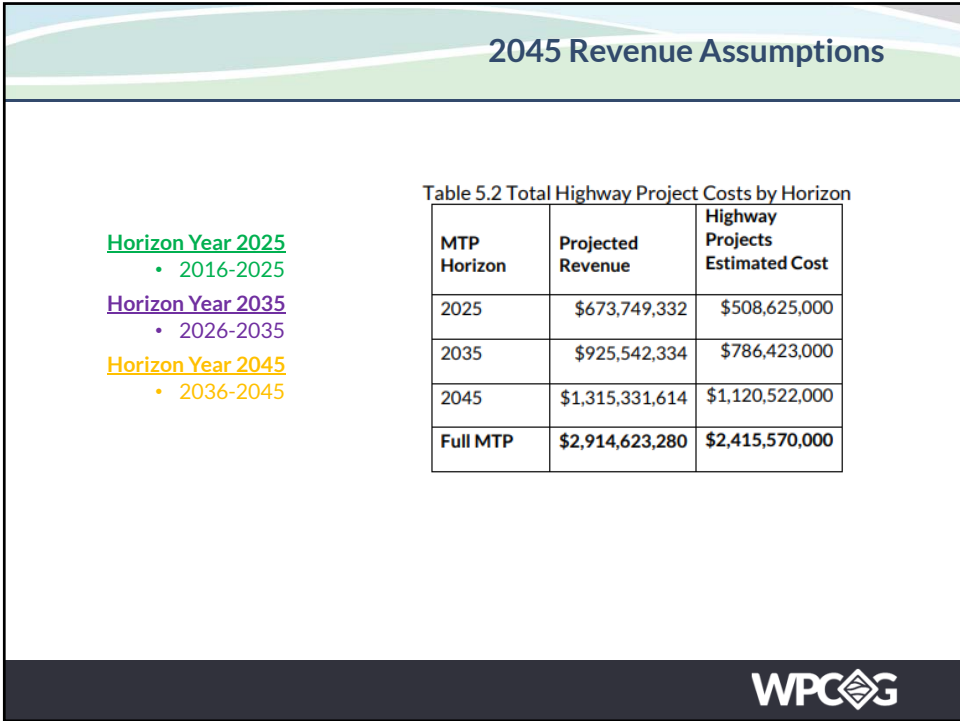
---

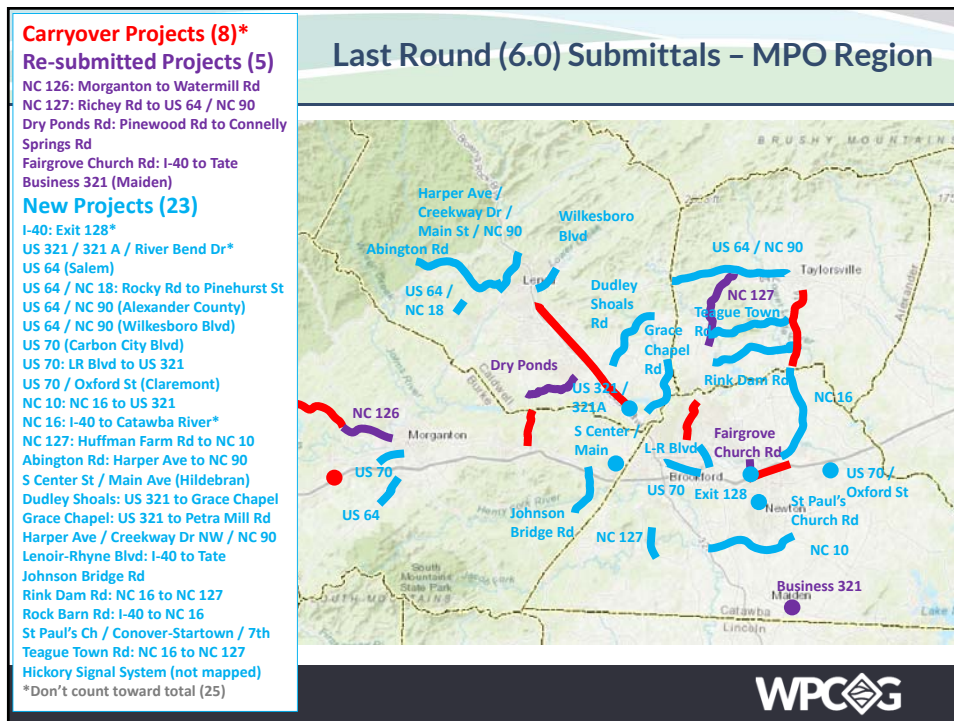
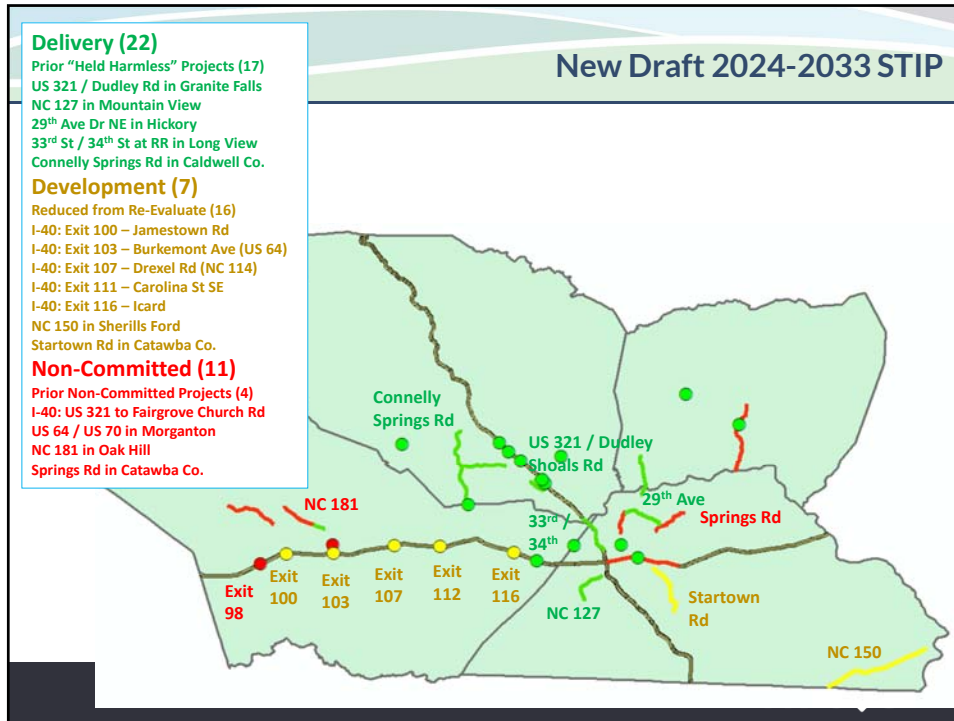
# 2050 Revenue Forecast

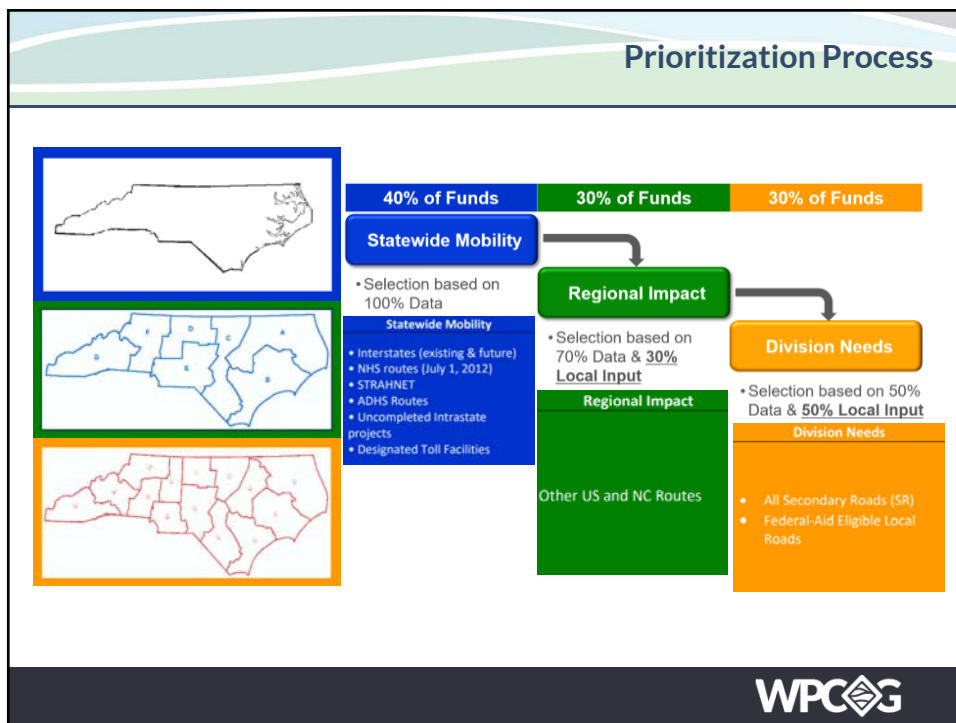
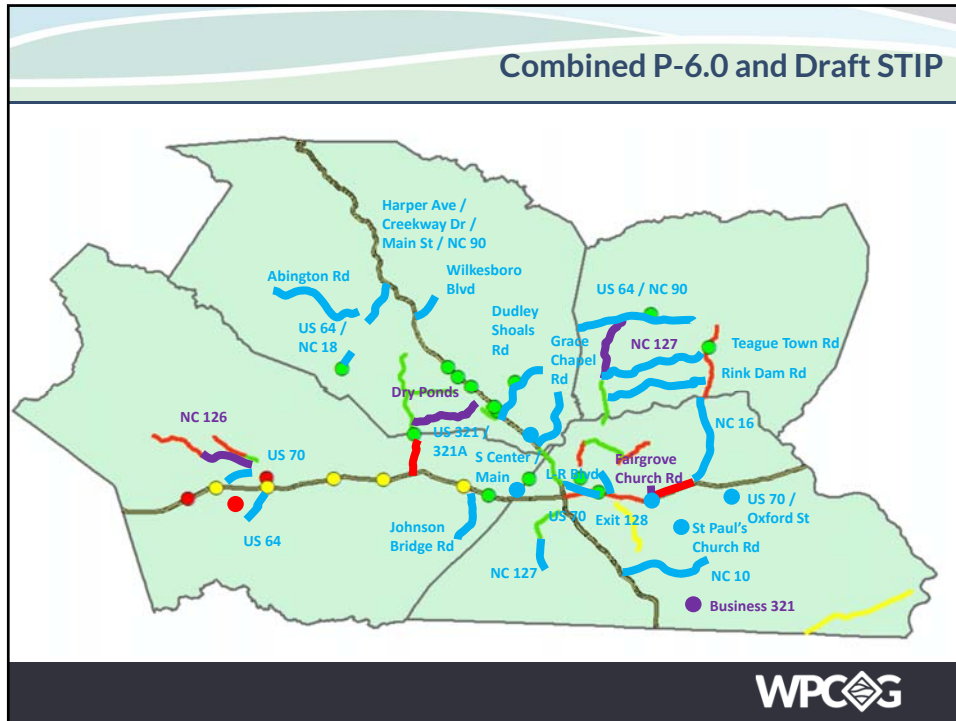
Transportation Advisory Committee  
May 25, 2022

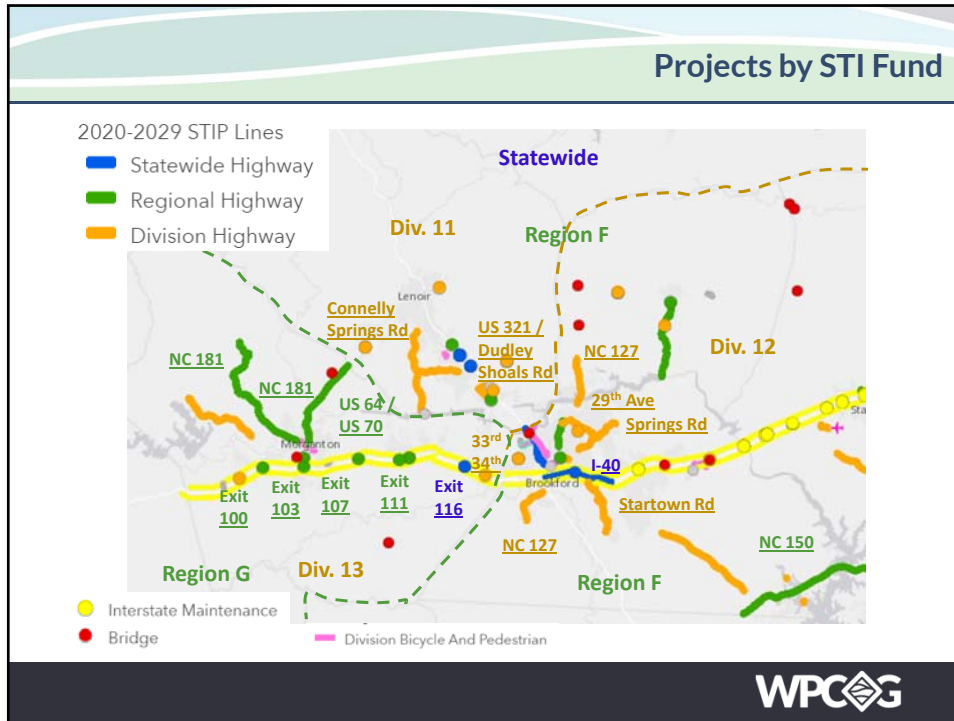












### STI Funding

40% of Funds

30% of Funds

30% of Funds

STI Group	NC Mileage	GHMPO Region		
Statewide Mobility	3974.8	96.3 (2%)		
STI Group	NC Mileage	Region F		Region G
Regional Impact	11100.4	259 (2%)		127.3 (1%)
STI Group	NC Mileage	Div.11	Div.12	Div.13
Division Needs	64468.6	564.7 (1%)	1425.4 (2%)	687.4 (1%)

STI Group	Revenue	Revenue 2024-2050		
Statewide Mobility	\$15B	\$300M		
STI Group	Revenue	Region F		Region G
Regional Impact	\$11B	\$220M		\$110M
STI Group	Revenue	Div.11	Div.12	Div.13
Division Needs	\$11B	\$110M	\$220M	\$110M

**WPCOG**



