

Revised Meeting Packet

August 13, 2015

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- Draft July minutes – page 3
- CMAQ proposed spending– page 10
- FY 2016 CMAQ prioritization – page 14
- CMAQ/air quality technical scoring proposed adjustments – page 15
- Presentation link –
http://www.wilmapco.org/Aq/files/2015/Other/WILMAPCO_School_campaign_Aug15.pdf

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WILMAPCO Council:

MEMORANDUM

John Sisson, Chair
*Delaware Transit Corporation
Chief Executive Officer*

Bill Miners, Vice-Chair
*Chesapeake City
Councilman*

Jennifer Cohan
*Delaware Dept. of Transportation
Secretary*

Thomas P. Gordon
New Castle County Executive

Donald A. Halligan
*Maryland Dept. of Transportation
Director, Office of Planning and
Capital Programming*

Connie C. Holland
*Delaware Office of State Planning
Coordination, Director*

Tari Moore
Cecil County Executive

Michael Spencer
Mayor of Newport

Dennis P. Williams
Mayor of Wilmington

WILMAPCO Executive Director
Tigist Zegeye

To: Members of WILMAPCO's Air Quality Subcommittee (AQS)
From: Bill Swiatek, Senior Planner
Date: August 5, 2015
Re: **Air Quality Subcommittee Meeting**
Date: Thursday, August 13, 2015
Time: 10:00 a.m.
Place: WILMAPCO
Teleconference: Dial: 888 – 204 – 5984; access code: 1716749

A G E N D A

- 1. Acceptance of the notes from the July 16 meeting**
- 2. Proposed FY 2016 CMAQ Spending– B. Swiatek**
The AQS will review DelDOT's proposal for CMAQ spending in New Castle County and provide a recommendation to TAC.
- 3. Project Prioritization: Air Quality Scoring– B. Swiatek**
The AQS will review proposed adjustments to the CMAQ and overall air quality project prioritization processes.
- 4. PRESENTATION: School Anti-idling Campaign– B. Swiatek**
- 5. Other**



Partners with you in transportation planning

**JOINT TECHNICAL ADVISORY COMMITTEE (TAC) &
AIR QUALITY SUBCOMMITTEE (AQS) MEETING
July 16, 2015**

A joint meeting of the Technical Advisory Committee (TAC) and Air Quality Subcommittee (AQS) was held on Thursday, July 16, 2015, at Lums Pond State Park, 1068 Howell School Road, Bear, Delaware.

1. **CALL TO ORDER:** Ms. Gwinneth Kaminsky, TAC chairperson, brought the TAC meeting to order at 10:10 a.m.

The Air Quality Subcommittee (AQS) Meeting notes dated May 14, 2015, were accepted by consensus (**Attachment A**).

2. TAC Members present:

Bruce Allen, Delaware Department of Transportation
Ian Beam, Maryland Department of Transportation
Gregory Beacoat, U.S. Environmental Protection Agency
Dave Blankenship, City of Wilmington Department of Public Works
Marco Boyce, New Castle County Department of Land Use
David Dahlstrom, Maryland Department of Planning
Anthony DiGiacomo, Cecil County Office of Planning & Zoning
Valerie Gray, Delaware Department of Natural Resources and Environmental Control
Herb Inden, Delaware Office of State Planning Coordination
Gwinneth Kaminsky, City of Wilmington Department of Planning
Catherine Smith, Delaware Transit Corporation
Peter Sotherland, Maryland State Highway Administration

AQS Members Present

Bruce Allen, Delaware Department of Transportation
Gregory Beacoat, U.S. Environmental Protection Agency
Marco Boyce, New Castle County Department of Land Use
Deanna Cuccinello, DNREC
Anthony DiGiacomo, Cecil County Office of Planning & Zoning
Jay Gerner, DelDOT
Valerie Gray, Delaware Department of Natural Resources and Environmental Control
Catherine Smith, Delaware Transit Corporation

TAC Members absent:

City of Newark
Delaware Economic Development Office
Delaware River and Bay Authority
Maryland Department of the Environment
Maryland Transit Administration
Town of Elkton

TAC Ex-Officio Members absent:

Amtrak
 Diamond State Port Corporation
 Environmental Protection Agency
 U.S. Federal Transit Administration
 U.S. Federal Highway Administration

Guests and Invitees:

Gene Donaldson, DelDOT
 Bill Geronimo, DelDOT
 Markus Gula, Intern
 John Janowski, Citizen
 Mike Nixon, Citizen
 Kevin Racine, Citizen
 Howard Simons, Citizen
 Tim Snow, DelDOT

Staff:

Dan Blevins, Principal Planner
 Janet Butler, Administrative Assistant
 Heather Dunigan, Principal Planner
 Sharen Elcock, Executive Assistant
 Tamika Graham, Senior Planner
 Dave Gula, Principal Planner
 Randi Novakoff, Outreach Manager
 Bill Swiatek, Senior Planner
 Tigist Zegeye, Executive Director

Minutes prepared by: Janet Butler

3. MINUTES

ACTION: On motion by Mr DiGiacomo and seconded by Mr. Dahlstrom the June 18, 2015 minutes (**Attachment A**) were approved.

Motion passed.

(7-16-15 - 01)

4. SUBCOMMITTEE UPDATES:**a. Data and Demographics Subcommittee (DDS)**

Mr. Blevins said DDS did not meet this month.

b. Congestion Management Subcommittee (CMS)

Mr. Blevins distributed the 2015 WILMAPCO CMS Identified Corridors map (**Attachment B**). The CMS met on June 9, 2015. Dr. Rusty Lee, University of Delaware, presented findings regarding traffic movements from the Interstate-495 bridge closure. He will also present this information at a future TAC meeting. Driving habits changed

during the Interstate-495 bridge closure, and 28,000 vehicles traveled a different way. CMS also reviewed the corridors on the map for performance measures regarding Level of Service (LOS) and travel time data. They made some small changes, for instance, Route 40 was added and there are some changes on the Route 13 corridor. The map also indicates delay information and crash frequency data. They used this information to make the determination of the CMS corridor for this year, which will be part of the prioritization for the TIP projects.

Mr. DiGiacomo said he was surprised that Pleasant Valley Road between Route 40 and Old Baltimore Pike isn't on the map. Mr. Blevins replied it is a major collector; however, we collect data from minor arterials and above as part of our network; therefore, we don't collect data on that road for travel time.

Mr. Dahlstrom asked since it is congestion management, why is it based on free-flow speed and not on volume. Mr. Blevins we have had trouble with the volume versus capacity figure. If distance is anything less than two miles, we should be using speed as the determining factor. He added we use the measurement of posted speed plus five miles.

Mr. Blankenship said during the Interstate-495 closure, DelDOT employed portable wavetronix devices, and the device recorded 25 miles per hour as a negative result; however, that is the speed limit; therefore, the device needs to be tailored. Mr. Blevins said we moved away from a volume/capacity measure because we were also looking at the differences, and it wasn't a reliable source of data.

5. PUBLIC COMMENT PERIOD:

None.

ACTION ITEMS:

6. To Recommend Amendment of the FY2015-2018 Transportation Improvement Program (TIP), Cecil County Element

Ms. Dunigan said this recommendation is to add Section 5310 capital assistance for transit funds to enhance mobility services for seniors and persons with disabilities. The preventative maintenance total is \$30,000; and small bus replacement is \$60,000, which is a total of \$90,000.

ACTION: On motion by Mr. DiGiacomo and seconded by Mr. Dahlstrom, the TAC recommended approval of the Cecil County Element of the FY2015-18 TIP for transit funds.

Motion passed.

(7-16-15 - 02)

7. To Recommend Amendment of the FY2016-2019 Transportation Improvement Program (TIP), Cecil County Element

Ms. Dunigan said this recommendation is to amend the FY2016-19 TIP to include additional funding for the MARC Maintenance and Layover Facility. Mr. DiGiacomo said

he hopes this is an incremental step for extending MARC train service from Elkton to Newark and to Wilmington. Mr. Beam responded MARC Train service in this area is being reviewed, and when he receives the updated information he will inform the TAC.

ACTION: On motion by Mr. DiGiacomo and seconded by Mr. Dahlstrom, the TAC recommended approval of the Cecil County Element of the FY2016-19 TIP for the MARC Maintenance and Layover Facility.

Motion passed.

(7-16-15 - 03)

PRESENTATION/DISCUSSION ITEMS:

8. Proposed amendments to the FY2016-2019 Transportation Improvement Program (TIP), including use of CMAQ, STP, TAP, and Transit 5310 and Urbanized Area funds for FY2016, for public comment

Ms. Dunigan distributed the Draft Amended WILMAPCO FY2016-19 TIP spreadsheet (**Attachment C**). This draft spreadsheet replaces the one in the TAC mailing. However, the full spreadsheet isn't ready yet because WILMAPCO is waiting for information from DelDOT that indicates the changes in the TIP and the CTP. Also included in the hand-out is a color-coded list of the TIP projects. The list will not change, but, the dollar amounts on the larger spreadsheet will change that will reflect the increased funding passed by the General Assembly.

Ms. Dunigan discussed some new and restored projects. For instance, in the Delaware Statewide element, corridor capacity preservation, industrial roads, and statewide lighting are being funded. In the New Castle element, there are a few new bridges; Claymont Station is getting funded; and City of Wilmington projects have done very well, including three Wilmington Initiatives projects that have added funding. In addition, Fair Play Parking expansion and the Interstate-95 – SR 896 interchange improvements are back. However, Line 95 should be shaded in purple because it is not being funded.

The Possum Park Road intersection is back; Route 1 widening projects on lines 105 & 107 reflect the new components of that project; the SR 896 interchange is back; two restored projects are being funded between Duck Creek and SR1 and pedestrian improvements from US 40 to Memorial Drive; and the US 40 to Walter Road project was restored.

A DelDOT letter with federal funding is included in the hand-out, and on page 6, details include the use of Urban Surface Transportation Program (STP); FTA Urbanized Area; Congestion Mitigation/Air Quality (CMAQ); FTA Elderly and Persons with Disabilities; and Transportation Enhancement (TE) Program. DelDOT is working on finalizing how these funds are being used. Ms. Dunigan said the Transportation Enhancement (TE) list is being worked on. The public comment period runs at least 30 days, from August 3, 2015 through September 10, 2015. The TIP Public Workshop is scheduled on August 24, 2015.

Mr. Bill Geronimo, DelDOT, said due to the increased revenue package that was passed in Delaware on June 30, 2015, we have a robust construction plan. One of the goals in transportation solutions is to have a lot of shovel-ready projects. HB 140 legislation provided 25 million dollars that DelDOT will match with 25 million borrowed funds, which is a 50-million dollar enhancement.

In addition, the focus is on state of good repair. There are 5 million dollars for bridge repairs and 22 million dollars are slated for capital projects. A lot of projects were put back in, such as SR2 and Red Mill Road and US 40-SR 896-projects. The DelDOT Letter is a Federal Funding Request, which indicates what is spent and what is obligation. We are asking for funds from the federal government, but, some of the projects do not have a one-year plan.

Mr. Gene Donaldson, DelDOT, distributed the Federal Fiscal Year 2016 TMI Plan-CMAQ Portion, State Fiscal Year 2016 Spend list (**Attachment D**). The first part of Planning and Engineering (PE) includes re-timing the traffic signals throughout the state and a large portion is in New Castle County. The Transportation Management Center (TMC) Central Office Systems will enhance the video control system; and telecommunications will be enhanced, which includes several thousands of devices in the statewide communication system.

As part of a multi-year project to implement a statewide automated real-time vehicle detection system, DelDOT's goal is that every traffic signal be put on the system. DelDOT has also installed 120 Blue Tooth devices, and the microwave detector data are being stored for planning purposes. In addition, DelDOT is expanding and enhancing the CCTV cameras that are being put in major locations.

DelDOT's app and website will be enhanced, which is a priority. DelDOT is investing in the Traveler Information System, including the continuation of the WTMC 1380 AM radio station that provides real-time multimodal travel, incident, and emergency information. They are also enhancing the Roadway Weather Information System, which improves DelDOT's response to weather events and provides travel information.

Ms. Zegeye asked if four million dollars under CMAQ is statewide funding. Mr. Donaldson replied yes. She also asked if the statewide trail program is under the TAP or under bike/pedestrian projects. Mr. Geronimo said most of it is under bike/pedestrian. Ms. Zegeye asked if it is specific to New Castle County or statewide. Mr. Geronimo replied it is statewide. Mr. Geronimo added he will indicate "statewide" on projects where needed.

Ms. Dunigan added we don't know what the top priority bike/pedestrian projects statewide are yet. We will have a revised list about mid-way through the year. When the information is ready there will be a presentation to NMTWG in October, 2015 and then to the TAC. Mr. Boyce asked what the Claymont Train Station funding is for. Ms. Dunigan said it is for the new Claymont Train Station design.

9. Air Quality Conformity Discussion on TIP Amendments

Ms. Zegeye distributed a list of projects modeled in summer 2014 for the 2040 RTP and their modeling status in the FY16 TIP (**Attachment E**). Ms. Zegeye said WILMAPCO staff will work with finance to make sure the changes discussed on agenda item #8 above reflect the amendments. The proposed amendments for the FY2016-19 TIP will go out to the public for review; and to TAC and AQS in August for recommended approval. Then it will go to the WILMAPCO Council for approval in September, and to FHWA and FTA for approval. As shown on the hand-out, all the projects that are modeled are within the horizon years, which are 2020, 2030, and 2040 for air quality analysis purposes; therefore, there is no need for an Air Quality Conformity Determination.

INFORMATION ITEMS:

14. Staff Report

- At the Council meeting on July 9, 2015, the actions included amending the FY2016-19 TIP to include funding for replacement of the MD222 Bridge; approving the Project Prioritization for FY2016 TAP projects; releasing the proposed amendments to the FY2016-19 TIP, including use of CMAQ, STP, TAP, and Transit Urbanized Area and Transit 5310 Funds for FY2016 for public comment; and endorsing the Locust Lane Sidewalk Feasibility Study. The presentations by Staff included the Public Opinion Survey: Responses by Race, Ethnicity, and Income; SR 141 20-Year Transportation and Land Use Plan Update; Glasgow Avenue Planning Study; and Red Clay Valley Scenic Byway Design Standards Overlay Project.
- On June 17, 2015, Staff conducted the SR141 Transportation and Land Use Plan Public Information Session and 70 people attended.
- On July 6, 2015, the Kick-off for the Economic and Real Estate Assessments for the North Claymont Area Master Plan was held, and the next Advisory Committee Meeting will be held on July 28, 2015.
- On July 14, 2015 Staff held a mock-up for the Delaware Avenue Cycle Track as part of the Newark Bike Plan and partnership between DelDOT and City of Newark.
- On July 16, 2015, Staff exhibited at the Healthy Kids Delaware Community Dinner.
- Staff exhibited at Southbridge Weekend on July 18, 2015.
- On June 24, 2015, from 5:30 p.m.-8:30 p.m., Staff hosted the Fourth Street Walkable Community Workshop, at Westside Family Healthcare, 1802 W. 4th Street, Wilmington.
- Staff is continuing work with School Transportation Coordinators, and Mr. Swiatek met with them today to discuss School Bus Anti-Idling procedures.
- Staff will present transportation information to the Delaware Hispanic Commission next Tuesday as part of outreach to the Latino community.
- Staff will present the Sea-Level Rise Transportation Vulnerability Assessment to the Mid-Atlantic Transportation Sustainability Center Meeting on August 7, 2015.
- On October 29, 2015, WILMAPCO will host the Mid-Atlantic Regional Planning Round Table meeting.

OTHER BUSINESS

Mr. Blankenship announced there will be a whistle stop for the Americans with Disabilities Act (ADA) Legacy Bus Tour in Rodney Square, on its 25th Anniversary. The City of Wilmington was honored to be chosen along with Baltimore and Washington, DC, for this tour. Ms. Smith added another Legacy Bus Tour event will be held Saturday on the Legislative Green in Dover from 11:00 a.m. to 5:00 pm.

Ms. Gray said the Delaware Governor announced the Delaware Clean Transportation Incentive Program (CTIP) today, providing rebates and grants with the goal of promoting deployment, wider use and acceptance of clean-alternative fuel vehicles, and boosting investment in clean transportation fuel infrastructure. The program can be viewed at www.DNREC.Delaware.gov.

ADJOURNMENT

The meeting was adjourned at 11:15 a.m. The meeting was followed by the annual WILMAPCO picnic.

Attachments (5)



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
 800 BAY ROAD
 P.O. BOX 778
 DOVER, DELAWARE 19903

JENNIFER COHAN
 SECRETARY

July 08, 2015

Ms. Tigist Zegeye
 Executive Director
 WILMAPCO
 850 Library Avenue, Suite 100
 Newark, Delaware 19711

Dear Ms. Zegeye:

Pursuant to the adoption of Wilmington Area Planning Council's (WILMAPCO) Fiscal Year 2016 - 2019 TIP and the Delaware Department of Transportation's Fiscal Year 2016 - 2019 STIP, I am recommending programming Federal funds for Fiscal Year 2016 projects as follows:

Urban Surface Transportation Program (STP) (Over \$200,000) (M230, M23E)

<u>Project</u>	<u>Amount</u>
HSIP NCC, N282, Mill Creek Road and Stoney Batter Road	\$2,495,497
HSIP NCC, Old Baltimore Pike and Salem Church Road	\$300,000
E 12th Street @ NE Blvd.	\$148,000
Garasches Lane, Wilmington	\$240,000
SR 72, McCoy Road to SR 71	\$3,300,000
Wilmington Initiatives, King and Orange, MLK Blvd to 13th Street	\$960,000
Bridge Preservation (BR 1-239; 1-577; 1-814)	\$1,240,000
Paving and Rehabilitation	\$1,000,000
Total:	\$9,683,497

FTA Urbanized Area (5307, 5340)

<u>Project</u>	<u>Amount</u>
Preventive Maintenance - New Castle County	\$6,500,000
Transit Vehicle Replacement (2) 40' Low Floor Buses FY17	\$737,040
Transit Vehicle Replacement (2) 40' Low Floor FY17	\$921,300
Transit Vehicle Replacement (2) 45' OTR Buses NCC FY17	\$1,456,700
Transit Vehicle Replacement (3) CAW Fixed Rte. Buses NCC FY17	\$383,400
Transit Vehicle Replacement Paratransit Buses NCC FY16-21	\$ 3,668,240
Total	\$13,666,680



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
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JENNIFER COHAN
 SECRETARY

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July 08, 2015

Congestion Mitigation/Air Quality (CMAQ) (M400, M40E)

<u>Project</u>	<u>Amount</u>
Bike and Pedestrian Improvements	\$2,250,000
Rideshare – Transportation Management Improvements	\$360,000
Industrial Track Greenway Phase III	\$80,000
Myrtle Avenue Sidewalk Improvements	\$320,000
Statewide Transportation Management Improvements	\$4,000,000
Total	\$7,010,000

FTA Elderly and Persons with Disabilities (5310)

<u>Project</u>	<u>Amount</u>
Statewide Transit Vehicle Replacement	\$470,451
Total	\$470,451

Transportation Enhancement Program (M30E, M301, M3E3, M3E2, 5307)

<u>Project</u>	<u>Amount</u>
New Castle County Transportation Enhancements	\$1,500,000
Statewide Transportation Enhancements (FHWA)	\$2,300,000
Transportation Enhancements Wilmington Urbanized Area (FTA)	\$112,400
Total	\$3,912,400

We respectfully request your approval by way of signature on this document. If you have any questions, please contact me at (302) 760-2693.

APPROVED: _____

Tigist Zegeye
 Executive Director

Sincerely,

Bill Geronimo
 Budget and Program Analyst, Finance

cc: Mary Ridgeway, Division Administrator, FHWA
 Theresa Garcia Crews, Regional Administrator, FTA
 Jennifer Cohan, Secretary
 Hugh E. Curran, Director, Finance
 Robert McCleary, Director, Transportation Solutions
 Drew Boyce, Director, Planning
 John T. Sisson, Chief Executive Officer, Delaware Transit Corporation

8.7.15

Federal Fiscal Year 2016 TMI Plan - CMAQ Portion State Fiscal Year 2016 Spend		
Description	Amount	Justification
ITMS Engineering	\$1,300	Engineering consultant support to provide on-call ITS engineering support for the retiming of 20 signalized corridors, the addition of 50 traffic signals to the computerized signal system, design of continued expansion of ITMS related systems to include telecommunications, detection sites, video camera sites, WTMC radio sites, electronic message signing and etc. Includes ITMS related system software development to include continued enhancements to the DeIDOT website and smartphone App.
ITMS TMC Central Office Systems	\$390	Includes procurement of hardware and software required to support the continued expansion of Integrated Transportation Management System (ITMS) related Transportation Management Center (TMC) computers and networking equipment, and ITMS related software. Enhancement of the TMC based video control system to support the continued expansion of the video based traffic incident detection system and improved interface to the DeIDOT App, interactive website, and other media outlets.
ITMS Telecommunications	\$1,000	This project is a phase of a multi-year project to implement a fiber optic and wireless based statewide telecommunication system to support connection of facilities and transportation management control, monitoring and information field devices; to include traffic signals, electronic signing, electronic detection, etc. This phase includes the installation/upgrade of approximately three miles of fiber optics, associated network electronics and facilities to connect ITMS devices. Includes the continued expansion of licensed wireless technology with the continued expansion of the 4.9
ITMS Field Devices /Support - Traffic Signal System	\$80	This is a phase of a multi-year project to add all the DeIDOT maintained traffic signals to the computerized signal system. This phase will provide for the replacement or upgrade of 8 traffic signal cabinets and controllers statewide.

8.7.15

ITMS Field Devices /Support - Electronic Detection System -Signal Sampling Detectors	\$100	This is a phase of a multi-year project to implement a statewide automated real-time vehicle detection system. The detection system will provide a variety of information to include vehicle volumes, classification, speed, travel time and congestion monitoring. The collected data will be used for real-time control, monitoring and information plus the data will be stored for planning purposes. This project provides for the installation of computerized signal system sampling detectors.
ITMS Field Devices/Support - CCTV Cameras	\$110	This is a phase of a multi-year project to enhance and expand the ITMS video monitoring system to include the installation of two camera sites.
ITMS Field Devices /Support - Electronic Detection System - Microwave and Bluetooth Detection	\$290	This is a phase of a multi-year project to implement a statewide automated real-time vehicle detection system. The detection system will provide a variety of information to include vehicle volumes, classification, speed, travel time and congestion monitoring. The collected data will be used for real-time control, monitoring and information plus the data will be stored for planning purposes. The implementation of a statewide microwave (radar) based detection system to supplement existing detection systems with travel time information. This phase will provide approximately 10 microwave detection sites along DE1. This project will support the continued expansion of the statewide bluetooth based detection system.
ITMS Field Devices /Support - Traveler Information System	\$380	This project is a planned multi-year project to expand the existing WTMC 1380 AM traveler information radio system to provide statewide coverage. This phase of the project will construct and implement four new WTMC 1380 AM repeater sites. The WTMC 1380 AM radio system provides 24 hour real-time multimodal travel, incident and emergency information. WTMC 1380 AM is a component of DelDOT's transportation management and congestion mitigation program.
ITMS Field Devices /Support -Roadway Weather Information System	\$320	This project is to install two additional roadway weather information sites (RWIS). The installation of these sites will improve statewide coverage. Weather related information from the sites improve DelDOT's response to weather events that impact the transportation system and provides improved travel information.
ITMS Field Devices /Support - Weather (Hydrology)	\$30	This project is phase one of a multi-year project to enhance the coverage of Delaware's hydrology monitoring system. The hydrology monitoring system monitors water height and velocity. Includes the purchase of hydrology monitoring equipment to support the completion of Phase One of the programs.
TOTAL FY15 PROGRAM	\$4,000	

ID	Project	TIP Page	Notes	FY15-18 TIP	Project Type	Qualitative Index*			
						VMT	Cost	Life	Total
1	Transit Vehicle Expansion, NCC	2-81	Fixed-route only	\$ 4,860,200	Transit	6	0	3	9
2	Rail: Newark Regional Transit Center	2-75		\$ 30,800,000	Transit	3	0	6	9
3	Wilmington DART Bus Hub	2-86	total cost unknown	\$ 5,280,000	Transit	0	0	6	6
4	Transit Vehicle Replacement and Refurbishment	2-36	Fixed-route only	\$ 105,686,900	Transit	0	0	3	3
5	Boyds Corner Park and Ride Expansion	2-61		\$ 395,000	Shared Ride	3	6	6	15
6	Rideshare Program, statewide	1-24		\$ 480,000	Shared Ride	3	6	6	15
7	Rail Improvements: Fairplay Station Parking	2-75		\$ 7,252,000	Shared Ride	3	0	6	9
8	Christiana Mall Park and Ride	2-61		\$ 2,500,000	Shared Ride	3	0	6	9
9	US 13, Duck Creek to SR 1	2-62		\$ 1,500,000	Traffic Flow	3	3	6	12
10	Wilmington Traffic Calming: Walnut: MLK Blvd. to 16th	2-66		\$ 5,000,000	Traffic Flow	3	0	6	9
11	US 40: US 40/SR 72 Intersection (multimodal)	2-64		\$ 18,750,600	Traffic Flow	3	0	6	9
12	SR 2 (Elkton Rd): MD Line to Casho Mill Rd. (multimodal)	2-57		\$ 21,500,000	Traffic Flow	3	0	6	9
13	Wilmington Traffic Calming: 4th St: Walnut to I-95	2-66		\$ 3,000,000	Traffic Flow	3	0	6	9
14	New Castle Industrial Track: S of Christina River - Riverwalk	2-73		\$ 13,100,000	Ped/Bike	6	6	6	18
15	Grubb Road Ped. Improvements: Foulk Rd. to Naamans Rd.	2-46		\$ 550,000	Ped/Bike	3	6	6	15
16	Myrtle Avenue Sidewalk Improvements	2-42		\$ 1,400,000	Ped/Bike	3	3	6	12
17	Garasches Lane	2-45	total cost unknown	\$ 800,000	Ped/Bike	3	0	6	9
18	Manor Avenue Sidewalk Improvements	2-42		\$ 1,020,000	Ped/Bike	0	3	6	9

Interim CMAQ Project Prioritization Process - Methodology

1. Rank projects by type, based on emissions reporting within FHWA's National CMAQ database and federal guidance. Priority by type is: 1. Diesel Retrofits and Replacements, 2. Transit, 3. Shared Ride, 4. I/M and other TCMS, 5. Traffic Flow, 6. Pedestrian/Bicycle

2. Within project types, sort by quantitative emission benefits for diesel projects and qualitative benefits for others. Quantitative benefits can be determined from EPA calculators. An index determining the qualitative benefit follows.

*Qualitative Index

Reduce VMT - negligible (0); moderate (3); significant (6)

Cost - >2 million (0); \$500,000 - \$2 million (3); <\$500,000 (6)

Life expectancy - <5 years (0); 5-10 years (3); >10 years (6)

what we currently use

NATIONAL CMAQ PROJECT EMISSIONS BENEFITS, 1992-2008

Rank	Project Type	VOC Projects	VOC Reduction (kg/day)*	NOx Projects	Median NOx (kg/day)*
1	Transit	2,192	4.5	1,944	7
2	Shared Ride	1,051	5.5	912	5.5
3	I/M and other TCMs	501	3	455	3.5
4	Traffic Flow Improvements	5,357	4	4,096	1
5	Pedestrian/Bicycle	1,463	1	1,233	1

*VOC and NOx reductions represent the median of each year's reported median emission reduction for each project type. Years where emissions reductions were calculated for fewer than ten projects for a given project type were not included.

proposed adjustment

NATIONAL CMAQ PROJECT EMISSIONS BENEFITS, 2003-2013

Rank	Project Type	VOC Projects	VOC Reduction (kg/day)*	NOx Projects	Median NOx (kg/day)*
1	Shared Ride	687	4	668	3
2	Transit	1,448	2	1,477	3
3	Traffic Flow Improvements	4,195	3	3,628	1
4	I/M and other TCMs	429	1	483	2
5	Pedestrian/Bicycle	1,832	0	1,611	1

*VOC and NOx reductions represent the median of each year's reported median emission reduction for each project type. Years where emissions reductions were calculated for fewer than ten projects for a given project type were not included.

WILMAPCO Prioritization Process

8/12/2015

Air Quality Scoring Criteria Update

CURRENT PRIORITIZATION SYSTEM

Project expected to improve air quality by:

- Reducing emissions
- Reducing VMT
- Not adding capacity
- Increasing access to non-automotive modes

Current Scoring

3 – Project expected to substantially improve air quality (all four bullets apply)

1 – Project expected to slightly improve air quality (two or more bullets apply)

0 – No expected air quality impact (does not add capacity)

-3 – Negative air quality impact expected

WILMAPCO Prioritization Process

8/12/2015

Air Quality Scoring Criteria Update

PROPOSED PRIORITIZATION SYSTEM

3

Project expected to moderately or significantly improve air quality. Project types include:

- a. fixed-route bus and train service expansions
- b. public transit technology improvements
- c. major non-recreational nonmotorized system expansion (not tied to a roadway project which would increase vehicle capacity)
- d. diesel engine replacements
- e. alternative fueling stations
- f. park-and-ride lot expansions
- g. carpooling schemes

1

Project expected to slightly improve air quality. Project types include:

- a. fixed-route bus and train service replacements
- b. minor non-recreational nonmotorized system expansions (not tied to a roadway project which would increase vehicle capacity)
- c. major non-recreational nonmotorized system maintenance (not tied to a roadway project which would increase vehicle capacity)

0

Project not expected to impact air quality. Project types include:

- a. roadway projects which do not add capacity
- b. park-and-ride lot maintenance
- c. rail preservation
- d. paratransit expansion and maintenance
- e. recreational nonmotorized system expansion/maintenance
- f. minor non-recreational nonmotorized system maintenance (not tied to a roadway project which would increase vehicle capacity)

-1

Project expected to slightly worsen air quality. Project types include:

- a. roadway projects which add capacity but are non-regionally significant, including those with a non-recreational nonmotorized system expansion component

-3

Project expected to moderately or significantly worsen air quality. Project types include:

- a. roadway projects which add capacity and are regionally significant, including those with a non-recreational nonmotorized system expansion component