PENNDOT District 11

Lawrence County Community Outreach

April 10, 2017
Agenda

• Budget Update and District Overview
• 2017 County Maintenance Activities
• Traffic Engineering & Operations Unit
• 2017 Construction Projects
• 2018-2020 Projects in Design
• P3 – Public/Private Partnership for Bridges Update
• Liquid Fuels Distributions
A better quality of life built on transportation excellence.
To provide a sustainable transportation system and quality services that are embraced by our communities and add value to our customers.
<table>
<thead>
<tr>
<th></th>
<th>Allegheny</th>
<th>Beaver</th>
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<th>Totals</th>
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PENNDOT District 11-0 Budget

• Budget $458 Million (SFY 16-17)
  – $202 Million State funds
  – $256 Million Federal funds

• Budget Breakdown
  – $140 Million Maintenance
  – $24 Million Maintenance (Expanded)
  – $156 Million Capital Highway
  – $120 Million Capital Bridge
  – $18 Million Local

Lawrence County Maintenance - $11 Million
District Office Maintenance - $6.1 Million
A road is more than the line between 2 points
Consider all users
GOAL: Better Communities and Mobility Powered through Collaboration

PennDOT Connects:

• **builds** partnerships that invest in sustainable transportation.
• **leverages** resources to improve communities.
• **leads and innovates** for a more livable Pennsylvania.
• **delivers** projects that improve economic competitiveness, access to work, and overall quality of life.
Community Collaboration

MPO Planners
Local Planners
MPO Representatives
Metropolitan Planning Organization
County Planners

Municipal Representatives

RPO Staff
RPO Representatives
Rural Planning Organization
District Planner
District Traffic

County Representatives

Other local government staff

PennDOT Representatives
District Environmental

PennDOT Connects
Planning with our communities
Collaborating With Communities

Connecting With Communities First

PennDOT is:

• **Investing** in a community with each project.

• **Involving** communities at the beginning of the planning process.

• **Learning** what elements may be important to include in the project to support a community’s vision.
• PennDOT and our planning partners meet with local governments to discuss details for each project prior to developing project scopes and cost estimates.

• All mobility needs are considered.
  • Bicycle
  • Pedestrian
  • Transit
  • Freight
  • Operations and ITS

• Utilities
• Community health
• Stormwater management
• Green infrastructure
Lawrence County Construction Overview

- 15 miles of state roads paved or resurfaced in 2017
- Approximately 13 projects will be bid in 2017 worth $37 million
- 11 projects in construction in 2017
- 11 bridges improved or replaced (9 structurally deficient)
  - 2 Preservations for $1 million
  - 3 Rehabilitations for $14.5 million
  - 6 Replacements for $3.5 million
- $32 million in 2017 construction expenditures (estimated)
Maintenance Division

Angelo Pampena
Assistant District Executive
412-429-5002
Lawrence County Maintenance

Dave Harding
Lawrence County Maintenance Manager
724-656-3104
Pipe Replacement for Northeast Quadrant

<table>
<thead>
<tr>
<th>Pipe Replacement</th>
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<tr>
<td>SR 0388</td>
<td>Old State Rd</td>
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<td>SR 0956</td>
<td>Neshannock Falls Rd</td>
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<td>SR 1004</td>
<td>Shaw Rd</td>
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<td>Eastbrook Harlansburg Rd</td>
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<td>George Washington Rd</td>
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<td>SR 1018</td>
<td>Georgetown Rd</td>
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<td>SR 2013</td>
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Seal Coating for Northwest Quadrant

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<td>SR 9102</td>
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## Ditch Cleaning for Southeast Quadrant

### Ditch Cleaning

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<td>SR 1012</td>
<td>Frew Mill Rd</td>
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<td>Fairview School Rd</td>
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<td>SR 2024</td>
<td>Houge Rd</td>
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<td>SR 2030</td>
<td>Mountville Rd</td>
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<td>SR 2009</td>
<td>North Tower Rd</td>
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<td>SR 2011</td>
<td>Camp Run Rd</td>
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<td>SR 2020</td>
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Shoulder Cutting for Northeast Quadrant
Base Repair

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<td>SR 0551</td>
<td>Enon Rd</td>
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<td>Market St</td>
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Edge Levelling for Southwest Quadrant

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<td>SR 2003</td>
<td>Old Pittsburgh Rd</td>
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<tr>
<td>SR 2014</td>
<td>Chewton-Wurtenberg Rd</td>
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<td>SR 2026</td>
<td>Harmony Baptist Rd</td>
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<td>Columbiana Rd</td>
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Mechanical Patches for Southwest Quadrant

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<td>SR 4005</td>
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## Paving for Southwest Quadrant

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<td>SR 2001</td>
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<td>Harmony Baptist Rd</td>
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<tr>
<td>SR 4005</td>
<td>River Rd</td>
</tr>
<tr>
<td>SR 4006</td>
<td>Sky Hill Rd</td>
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![Map of Paving Locations](image)
Lawrence County started a cycle plan for sign replacement last year starting in the South East Quadrant which has been completed. The county is split into 4 sections for the sign replacement program. The North East Quadrant will be completed by the end of June 2017. Beginning July 1st the Sign Crew will start sign replacement in the North West Quadrant and is expected to be completed by the end of November 2017. The Sign Crew will update the South West Quadrant starting in the winter and is expected to be completed by the fall of 2018.

- Lawrence County has 16,000 signs that we are responsible for throughout the county.
- There are currently 1,948 signs that are 18 years or older
- We are 88% complete on our update of signs 18 years or older
Paint the Plow

- Seven Lawrence County high schools participated in the District’s first “Paint the Plow” contest.
- The competing schools were asked to paint the plows with a winter safety theme, weather motif or even school mascots.
- The judging categories:
  - The Judges’ Pick category was decided by a panel of judges, constructed of PennDOT supervisors and community leaders.
  - The Facebook Fan Favorite category consisted of posting the photos of each plow on the PennDOT Facebook page, and allowing the public to “vote”. The school with the most “Likes” on their photo won.
- The program built great moral among employees and the communities we serve.
5 Yr. Resurface Improvement Plan

• 2018
  – SR 1005 (Mercer Rd.) from Mitchell Rd. to Mercer County
  – SR 0288 (Wampum Rd.) from River Rd. to Oswald St.

• 2019
  – SR 4004 (Pulaski Rd.) from SR 224 to SR 18

• 2020
  – SR 0388 (Old State Rd.) from SR 0168 to SR 0422

• 2021
  – SR 4005 (Old Pulaski Rd.) from SR 4004 to SR 0208

• 2022
  – SR 0956 (South Market St.) from SR 1005 to SR 0208
  – SR 0208 (New Wilmington Rd.) from SR 1005 to Beagle Club Dr.
Aggregate removed from existing roadways during repairs is stockpiled at one of our yards. Once we have enough concrete, it is crushed and used on projects in the county. By recycling this material, we are providing a cost savings to taxpayers.

**Aggregate comparison:**

**2-A**
- Contract $17.00/ton
  - Usage: 1278 x 17.00 = $21,726
- Recycled $6.15/ton
  - Usage: 1278 x 6.15 = $7,860
- **Savings: $13,866**

**R-4**
- Contract $18.56/ton
  - Usage: 372 x 18.56 = $5,048
- Recycled $6.15/ton
  - Usage: 372 x 6.15 = $2,287
- **Savings: $2,761**
The county takes millings from projects and we have them crushed. Through this process we can create a #8 stone for seal coating. This allows us to continue seal coating roads in the county without purchasing virgin stone. By doing so, we are able to provide a cost savings to taxpayers.

**Chipping Stone Comparison:**

- **Extracted #8’s:** $ 6.15/ton
  - Usage: $6.15/ton x 6352 tons + set-up fees = $58,552 (actual usage)

- **Contract $48.00/ton (approx.)**
  - Usage: 6352 tons x 48.00 = $304,896

- **Savings:** $246,344 (approx.)
Lawrence County Contact Information

David Harding Jr.
County Maintenance Manager

Dave Lancaster
Assistant County Maintenance Manager

Tom Wilkinson
Acting Assistant County Maintenance Manager

Office       Fax
724-656-3104  724-656-3339
Bridge Maintenance Crews

Michael Adams, P.E.
Maintenance Operations Engineer
412-429-3813
Bridge Crew Planned Sites

- **Hickory Twp.** – Eastbrook Rd. (SR168) over Branch of Neshannock Creek
  - Concrete substructure repairs; Temporary lane closures as needed

- **Plain Grove Twp.** – Georgetown Rd. (SR1018) over Branch of Taylor Run
  - Box culvert replacement; Bridge closed and traffic detoured

- **Plain Grove Twp.** – Georgetown Rd. (SR1018) over Taylor Run
  - Concrete deck repairs; Complete during box culvert closure (single lane open to local traffic)

- **Washington Twp.** – Jordan Rd. (SR1008) over Hottenbaugh Run
  - Pave culvert streambed; Temporary lane closures as needed

(In order of proposed schedule)
What You Need to Know

We provide the following services at no cost to our municipal partners when state roads are involved:

– Traffic Signal Design and Operation Reviews

– Traffic Engineering and Safety Studies
  • Speed, Signal, Stop and Yield Sign, Turn Restriction, Weight Limit, School Zone and Engine Brake Retarder Studies

– Other Services
  • Special Event (Races/Parades) Permits
  • Banner Agreements
  • Mid-Block Crosswalks Reviews
  • Hazardous Walking Route Reviews
  • Traffic Counts
  • Crash Data Analysis
Why Do We Do This?

A Traffic Engineering and Safety Study is required for approval, location, installation, revision, operation, maintenance, and removal of all traffic signs, signals, markings, and other traffic control devices on all streets and highways in the Commonwealth.
Over the last decade* (2006-2015), we have reduced our 5-year average fatalities and serious injuries by 25%, How?

Through an aggressive program of:
- Systematic Low Cost Safety Improvements
- Site Specific Safety Projects
- Construction Work Zone Enhancements
- Pedestrian/Bicycle Improvements
- Safety and Enforcement Programs

*2016 final data not available
Although PennDOT is responsible for installing and maintaining most of the signs and pavement markings on state owned roads, we are not responsible for:

- Speed limit postings less than 40 MPH
- Stop signs on local roads
- Crosswalks, Stop Bars, and Legends
- Entrance and crossing related warning signs
  - School, Pedestrian, etc. crossings
  - Plant, Park, School, etc. entrances

Certain businesses may qualify for signing under PA Tourism Signing Trust. Call us for more information.
PennDOT does not own, operate or maintain traffic signals. We do however:

- Issue permits for traffic signals and flashing devices
- Provide design assistance for local municipalities
- Respond to complaints/operational issues
  - Signal timing
Traffic Signals

- There are 1,712 traffic signals and 392 flashing devices throughout the District. This includes 617 signals and 110 flashing devices in the City of Pittsburgh
  - Improper signal timing contributes to delay, traffic congestion, pollution and excessive fuel consumption

Available programs
- Green Light Go: Pennsylvania’s Municipal Signal Partnership Program
  - Application period begins in January
  - 20% Required Match
- Automated Red Light Enforcement (ARLE)
  - Application period begins in June
  - No Match Required
Construction Division

Jim Foringer, P.E.
Assistant District Executive
412-429-5007
## Construction Material Usage

### 2016 Usage
- 579,160 Tons of Asphalt
- 418,986 Square Yards of Concrete for Pavement
- 13,329 Cubic Yards of Concrete for Structures
- 906,550 Tons of Aggregate

### 2017 Projected Usage
- 507,171 Tons of Asphalt
- 618,098 Square Yards of Concrete for Pavement
- 54,379 Cubic Yards of Concrete for Structures
- 809,162 Tons of Aggregate
$11.42 million

Bridge rehabilitation work, including painting, expansion dam replacement, epoxy deck overlay, steel repairs, and railing improvements

Work has resumed in February with a completion date of late November 2017

SR 18 traffic will be detoured through mid-November but remain open to pedestrians
SR 65 Hillside Avenue to Gibson Street

- $8.72 million improvement on SR 65 between Hillside Avenue in Ellwood City Borough and Gibson Street at the Slippery Rock/Shenango Twp line
- Concrete patching, milling and resurfacing, base repairs, ADE curb cut installation, slide repairs, and drainage improvements
- Single-lane traffic will be maintained in each direction in Ellwood City
- Single-lane alternating traffic will occur in all other locations
- Project will conclude in late November 2017
SR 1018 over Branch of Taylor Run

- Georgetown Road Bridge Replacement
- $274,196 bridge replacement located between Gerber Road and Davis Road in Plain Grove Township
- Traffic will be detoured starting in June 2017
- Expected to be complete by August 2017
SR 2014 Chewtown Wurtemburg Road Bridge Replacement

- Estimated cost of $1–$1.5 million bridge replacement
- Complete replacement using precast modules
- The work will begin this summer between Henry Street and Vinegar Valley Road in Wayne Township
- The bridge will be closed and traffic will be detoured
- The project completion is late November 2017
SR 2020 Pleasant Hill Road Bridge Replacement

- Estimated cost of $1-$1.5 million on Pleasant Hill Road in Perry Township
- Located between North Camp Road and Pine Lake Road
- Full bridge replacement
- A long-term closure and detour route will be implemented in June with completion of late November 2017
SR 2030 Mountville Truss (Harris Bridge) Rehabilitation

- Estimated $3-$4 million bridge rehabilitation
- Located between Heinz Camp Road and Nye Road in Perry and Slippery Rock Townships
- Full replacement of the truss floor system, deck and barrier improvements, bearings, one wingwall, structural steel repairs, and a full truss painting
- Minor work in the summer of 2017 and traffic to be maintained this year
- Beginning in March 2018, there will be full closure and traffic will be detoured.
- The overall project will conclude December 2018
$424,582 project will replace the Petersburg Road bridge

Located between Burkey Road and Moravia Road in North Beaver Township

A full closure of the bridge and detour will be utilized

Work is to start in the spring and conclude mid-September 2017
SR 4004 Harbor-Edinburg Bridge Replacement

- $916,900 bridge replacement over the Shenango River
- Located between Benjamin Franklin Highway and Kings Chapel Road in Neshannock Township
- A full detour will be in place
- The project will begin in April and conclude in the summer of 2017
SR 65 over Abandoned Railroad

- Let Date: 8/10/2017
- Location: Shenango Township
- Estimated Cost: $1-$1.5 million
- Demolition of existing bridge and replacing it with a section of roadway
• Let Date: 9/14/2017
• Location: Pulaski Township
• Estimated Cost: $1.5-$2 million
• Bridge replacement project with detour
• Let Date: 01/12/2017
• Estimated Cost: $3.1 million
• Mill and resurface for all roadways, shoulder repair, base repair, drainage, and other miscellaneous construction
• Eastbrook Road (SR 168) from Croton Road (SR 108) to Main Street (SR 208) in City of New Castle, and Hickory, Wilmington and Washington Townships
• Wurtemburg Road (SR 2003) from Portersville Road (SR 488) to Lime Avenue (SR 65) in Wayne Township
• Cherry Street (SR 2032) from Liberty Street (SR 18) to Third Street (SR 168) in City of New Castle and Taylor Township
Neshannock Trail / North Street Bridge Connector

- $353,375
- Pedestrian and bicycle access improvements project on SR 108
- Work includes concrete sidewalk, bituminous trail, pedestrian railing, and ornamental fence
- Located between existing Neshannock Creek Trail and North Street Bridge
- April start and mid June 2017 completion
SR 351 Koppel Bridge Replacement

- $27.5 million
- Koppel Bridge replacement over the Beaver River in Koppel Borough and New Sewickley Township
- Also include signage, pavement markings, drainage, and guide rail installation
- Traffic will be maintained on existing bridge
- A 60-day detour in the bridge area will occur in the fall of 2018 to connect the new bridge with the existing highway
I-376 Vanport Bridge Rehabilitation

- $15.87 million
- Bridge that carries I-376 over the Ohio River in Vanport and Potter Townships
- Painting of structure, deck overlay, new bearings, dam replacements, lighting improvements, and electrical upgrades
- To conclude in mid-December 2017
I-376 Beaver Valley Expressway—Vanport to Allegheny County

- Estimated value of $16-$17 million
- Concrete pavement restoration and milling and resurfacing work
- 2 locations: from Allegheny County line to Hopewell (Exit 48) and from Midland/Beaver (Exit 38A-B) to Center (Exit 42)
- Restrictions include long-term, single-lane closures, overnight single-lane restrictions, and ramp closures with detours
- Will begin May 2017 and conclude late spring 2018
I-376 – Business Loop 376 to Airport

- $42.36 million
- Roadway reconstruction, concrete patching, subgrade stabilizations, bridge rehabilitation work
- Work will occur in the westbound direction in 2017
- Two lanes of shifted traffic will be maintained with intermittent off-peak single-lane restrictions
- Project starts March 17 and will conclude in December 2018
I-376 – Beaver to McClaren

- $66.34 million
- Eastbound I-376 reconstruction and rehabilitation
- Maintain 2 lanes of traffic in the eastbound direction with a crossed over “express” lane
- The express lane will be crossed over in the westbound lanes and will not have access to any exits
- Cross over will begin in late April
- Overall project will conclude in November 2017
• $25.28 million
• Northbound Route 65 work includes concrete patching, asphalt overlay, bridge rehabilitation, ramp reconstruction, drainage, guiderails, and various other construction activities
Route 65

- Single lane restriction from Fort Duquesne Bridge to McKees Rocks Bridge
- Two travel lanes will be maintained from Fort Duquesne to West End Bridge
- One travel lane will be maintained from West End Bridge to McKees Rocks Bridge
- Various ramp closures will occur
- Work began on March 6 and will end in early September
I-279

- $87.94 million
- Concrete patching and overlay, preservation on 30 bridges and 49 overhead signs structures, repairs to 29 walls, ramp repairs, reconfiguration of ramp from northbound I-579 to northbound I-279, lengthening of the Madison Avenue on-ramp, lengthening of the northbound Perrysville Avenue on-ramp
• Southbound work in 2017
• One lane of traffic will be crossed over into the northbound lanes between Camp Horne Road and Perrysville interchanges. Southbound traffic will then access the HOV lanes.
• Overnight and weekend lane closures will occur
• Crossover begins weekend of April 15-16
• Overall project continues through June 2019
West Washington Street over Shenango River
City of New Castle, Lawrence County
Construction Anticipated During Summer of 2018

**Scope of Work:**
Reinforced Concrete Deck Replacement,
Full Superstructure Painting, New
Reinforced Concrete Approach Slabs and
Minor Approach Roadway Work
SR 4015-L01 Churchill Road Superstructure

Replacement over SR 224
SR 168-L16 (SR 18 to SR 422)

2018 Betterment Project
West Pittsburg, Lawrence County
SR 2006-L03 - East Washington Bridge

BMS # 37-2006-0032-0000
Let Date October 18, 2018
• 1500’ section of SR65 with cracking in shoulder and travel lane
• ROW partially down the slope, utility poles on failing slope
• Final product will be similar to SR3054-A07 Ewing Road
• 13 layers high at 0.5:1 slope
• Also similar to SR4070 Wildwood Road
• Rock buttress with GRS stabilizing upper 20’ of slope
SR2003-L03 Wurtemburg Road Slide Repair

- 160’ section creep failing due to sheet flow and stream scour
- Sizeable dip in the roadway with super-elevation greater than 17%
SR2003-L03 Wurtemburg Road Slide Repair

Finished product will be similar to SR3054 Baldwin Road
SR 422 and SR 4002

Benjamin Franklin Highway/Sampson Street
Let Date: 02/28/2019
SR 422 and SR 4002
SR 488-L05 Over Slippery Rock Creek

- Estimated cost of $5 million
- Bridge replacement with approach work
- Let date: 9/14/2017
- Bridge scheduled to close for work to begin on 3/1/2018
SR 956-L08 Neshannock Falls Road over Hottenbaugh Run

- Estimated cost of $1.5 million
- Located in Scott Township
- Single span bridge replacement
- Let date scheduled for 8/10/2017
SR 288-L03 Wampum Bridge

- Estimated cost of $9.2 million
- Truss bridge over Buffalo and Pittsburgh Railroad in Chewton
- Bridge replacement with new alignment next to existing structure
- Let date: 12/7/2017
- Scheduled to begin 3/1/2018
Lawrence County Group Paving Project

- SR 288 – Main Street – Wayne Township
- SR 1005 – Mercer Road – Neshannock/Wilmington Townships
Rapid Bridge Replacement Project

District 11 Bridges:
- 8 in 2015
- 23 in 2016
- 45 in 2017
- 9 in 2018
- 85 total bridges
### Rapid Bridge Replacement (P3)

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<tr>
<td>SR 3001, SOUTH MAIN ST</td>
<td>7/10/2017</td>
<td>9/9/2017</td>
</tr>
<tr>
<td>SR 3015, MORAVIA ST</td>
<td>4/10/2017</td>
<td>7/1/2017</td>
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What are Liquid Fuels?

- The Commonwealth provides dedicated funding to Local Governments for eligible expenditures that results in improvement to the local roadways and bridges that they are legally responsible to maintain.

- Municipal funding is dedicated through a portion of the Oil Franchise Tax collected, and is based on 50% population and 50% municipal roadway mileage.

- County funding is dedicated through 4.17% of a millage rate as set by Act 89 of 2013.
District 11-0 has 208 Municipalities and 3 Counties which are responsible for approximately 6,000 miles of local roadways and 560 local bridges.

Payment for Municipalities is once a year, on or about April 1. Over $46,000,000.00 in 2017.

Payment for Counties is twice per year. June and December. Over $2,400,000.00 Est. for 2017.
Since 2013 Municipal Liquid Fuels have increased 45%
• It is extremely important that the County and local governments handle this funding source properly as they are subject to audit by the Department of the Auditor General.

• The District’s Municipal Services Unit can provide local officials with the information necessary for the proper administration of their Liquid Fuels Tax Funding. If you have a question...just ask!
Assistance in the areas of:

- Road Inventory – Certification for Payment
- Project Delivery – Technical Assistance
- Project Approvals
- County Aid Projects
- Approved Materials
- Additional Mileage
- Eligible Expenditures of Funding
- Point of Contact for PENNDOT Questions - Programs
- Resolution of Audit Issues
- Interpretation of Codes, Standards, and Specifications
- Troubleshooting State/Local Roadway Issues
- Mediation and Problem-solving
Warm Mix Asphalt (WMA)
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Benefits of Warm Mix Asphalt

• Improves asphalt mix compaction density
• Improves consistency of asphalt coating and reduces the concern for stripping
• Extends the paving season
• Allows asphalt mix to be hauled longer distances
• Improves working conditions by reducing exposure to fuel emissions, fumes, and odors
Municipal Services Unit Contacts

• Dan Woodall – Supervisor
  Phone: 412-429-4809

• Barry DeAngelis – Specialist
  Phone: 412-429-4813

• Jon Johnson – Specialist
  Phone: 412-429-4812
Press Office Contacts

• **Steve Cowan – Press Officer**
  Phone: 412-429-5010

• **Yasmeen Manyisha – Safety Press Officer**
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• **Joel Morris – Community Relations Coordinator**
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