

PAPA Regional Technical Meeting

March 20, 2024
8:00 AM to 3:00 PM
District 2

Brian Gresco
District Materials and Geotechnical Engineer
(814) 765-0463
bgresco@pa.gov



Agenda

1. 2023 Asphalt Mix Testing Results
2. 2023 Longitudinal Joint Density Performance
3. 2024 Planned Construction Projects
4. 2024 District Rehabilitation Projects
5. 2024 Maintenance Asphalt Tons
6. District Use of 9.5 mm, 19.0 mm & 25.0 mm High RAP Mixes for LVR
7. District eTicketing Status
8. District 6.3 mm & SMA Projects
9. District RAP Mix Percentages
10. District BMD HWTT/IDEAL-CT Implementation
11. District Innovations & Best Practices
12. 2023 District Issues – Problems
13. 2024 District Changes - Direction

2023 Asphalt Mix Testing

Testing:

- **16** Lots- Mixture Acceptance by box sample
- **13** Lots – Density Acceptance by pavement cores

Retests Requested:

- Requested – 0
- Retest Results – N/A
 - # passed **N/A**
 - # failed **N/A**

2023 Asphalt Mix Testing

Percent Pay:

- AC Content
 - >100%: #13
 - 100%: #0
 - <100%: #3
- Gradation: No. 200 Sieve
 - >100%: #13
 - 100%: #0
 - <100%: #3

Percent Pay:

- Gradation: PCS
 - >100%: #11
 - 100%: #0
 - <100%: #5
- Density
 - >100%: #6
 - 100%: #1
 - <100%: #6

2023 Asphalt Mix Testing

Testing:

- 16 Lots- Mixture Acceptance by box sample
- 13 Lots – Density Acceptance by pavement core

Failure:

- 0- AC Content failures
- 0- Gradation failures
 - #xxx 200 Sieve -
 - #xxx Primary Control Sieve -
- 0 - Density failures

Retests Requested:

- # Requested – 0
- Retest Results – n/a
 - # passed n/a
 - # failed n/a

Performance

Longitudinal Joint Density Summary

Year	2023	2022	2021	2020	2019	2018
Lots Tested	10	20	18	33	26	95
% Density Range	89.7-96.6	88.9-98.1	89.0-97.5	88.1-97.9	87-98	82.9-97.3
% Average Density	93.3	93.5	92.4	94.1	92.1	92.5
Incentive Lots	8	14	10	29	17	82
Zero Lots	2	6	8	3	9	6
Disincentive Lots	0	0	0	1	0	7
Total \$ for Incentive Lots	\$51,000	\$85,375	\$35,325	\$212,175	\$81,800	\$394,100
Total \$ for Disincentive Lots	0	0	0	-\$1,750	0	-\$16,840
Delta (Incentive - Disincentive)	\$51,000	\$85,375	\$35,325	\$210,425	\$81,800	\$377,260

REF: Section 405 Evaluation of Bituminous Pavement Longitudinal Joint Density and Payment of Incentive/Disincentive

Performance

- Longitudinal Joint Type
 - Which joint type is being utilized most?
 - Use both vertical and tapered. Use tapered more for traffic control
 - Are you having any longitudinal joint issues?
 - Not with new joints. Good density numbers last year
 - Did you or are you planning to use J-Band (Void Reduction Asphalt Membrane VRAM)? If you piloted, what are your observations?
 - Used on SR 219-537 McKean County- 2022. Looks good
 - Using on SR 0080-B42 Cfd -2024-2025 Cfd to D-2/D10 Line (~24 miles)

2024 Planned Construction Projects

ECMS #	Let Date	SR	County	Tons
101960	5/26/2022	3014-153	Centre	10000
93316	8/25/2023	1005-720	Mifflin	1450
74912	3/2/2023	0080-B38	Centre	1850
118752	11/2/2023	GR 2-23-ST52	McKean	11443
119243	11/2/2023	GR 2-23-ST82	Elk	19166
105566	11/2/2023	0035-912	Juniata	6061
119251	12/14/2023	0646-544	McKean	21000
114010	12/14/2023	0522-723	Mifflin	28416
108454	1/11/2024	GR 2-24-ST1	Centre	22000
108866	1/11/2024	GR 2-24-ST3	Clinton	11000
116220	1/31/2024	Masters Blvd	Centre	5824
108735	2/8/2024	GR 2-24-ST2	Clfd	27439
108849	2/8/2024	GR 2-24-ST8	Elk	13184

2024 Planned Construction Projects

ECMS #	Let Date	SR	County	Tons
108849	2/8/2024	GR 2-24-ST5	McKean	9576
96271	2/29/2024	0153-266	Clfd	22716
112588	3/14/2024	0026-147	Centre	23088
108858	3/14/2024	GR 2-24-ST6	Potter	13968
108875	3/14/2024	GR 2-24-ST9	Juniata	18668
108875	3/14/2024	GR 2-24-ST7	Mifflin	
88579	4/11/2024	0080-B42	Clfd	170000
3142	5/9/2024	0080-B18	Centre	12000
118401	5/23/2024	Local	Centre	2000
69387	6/20/2024	0022-A15	Mifflin	1098
105922	6/20/2024	0022-A18	Mifflin	1450

District Rehabilitation Projects

- Have you bid and/or completed any crack & seat break & seat projects with asphalt structural overlay in the past few years?
 - No
- Do you have any projects programmed for 2024 or 2025?
 - No

2024 Maintenance Asphalt Tons (Estimated)

County	9.5 mm	9.5 mm LVR	12.5 mm	19.0 mm	19.0 mm LVR	25.0 mm	25.0 mm LVR
2-1 Centre	426			4601			
2-2 Clearfield	845			7187			
2-3 Clinton	110			213			
2-4 Cameron	57			9			
2-5 McKean	779			184			
2-6 Potter	88			5254			
2-7 Mifflin	475			4851			
2-8 Elk	1500			2318			
2-9 Juniata	2270			299			
TOTAL TONS	6550			24916			

LVR = Low Volume Roads

District eTicketing Status

- Please discuss your experience with Asphalt eTicketing Projects.
 - 6 out of 11 producers have successfully sent e-tickets to the projects to date.
 - All projects being bid up to October are pilot projects to include e-tickets. After October e-ticket will be required on projects
- Are contractors in your District ready to implement this October?
 - Are they? Complete form CS-9000 through PPCC prior to Preconstruction meeting.
 - If producers/contractors have not been successful in transmitting e-tickets contact Central Office ASAP
RA-PDECONSTRUCT@pa.gov

District 6.3 mm & SMA Projects

- List of 2024 6.3 mm Thin Lift projects
 1. 0
- List of 2024 SMA Projects
 1. SR 0080-B42
 2. SR 0080-B18
- Any 2024 or 2025 HiMA SMA Pilot Projects?
 1. SR 0080-B42 Clearfield

District RAP Mix Percentages

- Please provide average RAP % for the following mixes:
 - Wearing - 17.4% and total tons 30,595
 - Binder - 27.2% and total tons 58,623
 - Base – 24.7% and total tons 16,691
 - Average RAP % of all mixes – 22.6% and total tons 105,909
- What are the impediments to increasing RAP% in the mixes?
 - Volume/supply of available RAP
 - Quality of mix- performance
 - Plant capacity (batch plant/drum plant) (Variable Speed Drum)
 - RAP gradation- Fractionate
 - Use of rejuvenators

District BMD HWTT/IDEAL-CT Implementation

- Please discuss District opinion of owner – contractor readiness to implement BMD.
 - Still gathering data. Data Collection extended through 2026 with further evaluation after 2026. (SOL 481-24-01)
- Please discuss any issues, problems, opportunities, successes, etc. you would care to share?
 - Paving up North with Group Jobs on narrow roadway
 - Challenging with Paving and passing trucks
 - Trucks damaging the paved and stabilized shoulder
 - District will try to incorporate Detours for these narrow roadways
 - High RAP Low Volume 19mm
 - Beneficial structure to four-digit State Routes

District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
 - None

2023 District Issues - Problems

- Please discuss any issues, problems, etc. that you had with asphalt paving producers or contractors. How did you resolve them?
 - None

2024 District Changes - Direction

- Please list - discuss any District changes to policy, specifications, special provisions, etc. that are relevant to the asphalt paving industry.
 - ✓ SOL 481-24-01-Balance Mix Design Sampling-Testing
- Any staff changes since last year?
 - ✓ Brent Lykens – Temporary Assignment in Design
 - ✓ Peter Hall – Promoted to ACE
 - ✓ Brian Myers – Promoted to Materials Supervisor
 - ✓ Luke Ammerman- New Materials Inspector
 - ✓ Justin Marchiori- Promoted to Construction Manager
 - ✓ Jimmy Defazio -Retired

Audience Questions/Comments???



Brian Gresco
District 2 Materials & Geotechnical
Engineer
814-765-0463
bgresco@pa.gov