

Bituminous PWT (Percent Within Tolerance)

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Current Status

- Two (2) methods in use:

1. PWT-LTS (Laboratory Testing Section)

- Acceptance at LTS
- Gmm Verification included on Federally Funded and NHS Projects

2. PWT-HOLA (Hands On Local Acceptance)

- Department Acceptance, Contractor Lab
- Department Option to Witness Only
- Gmm Verification included on Federally Funded and NHS Projects. (Conducted at Local Lab)

What Does PWT Drive?

- Tighter adherence to producing job mix formula
- Tighter adherence to field density spec. requirements



What's different with PWT spec?

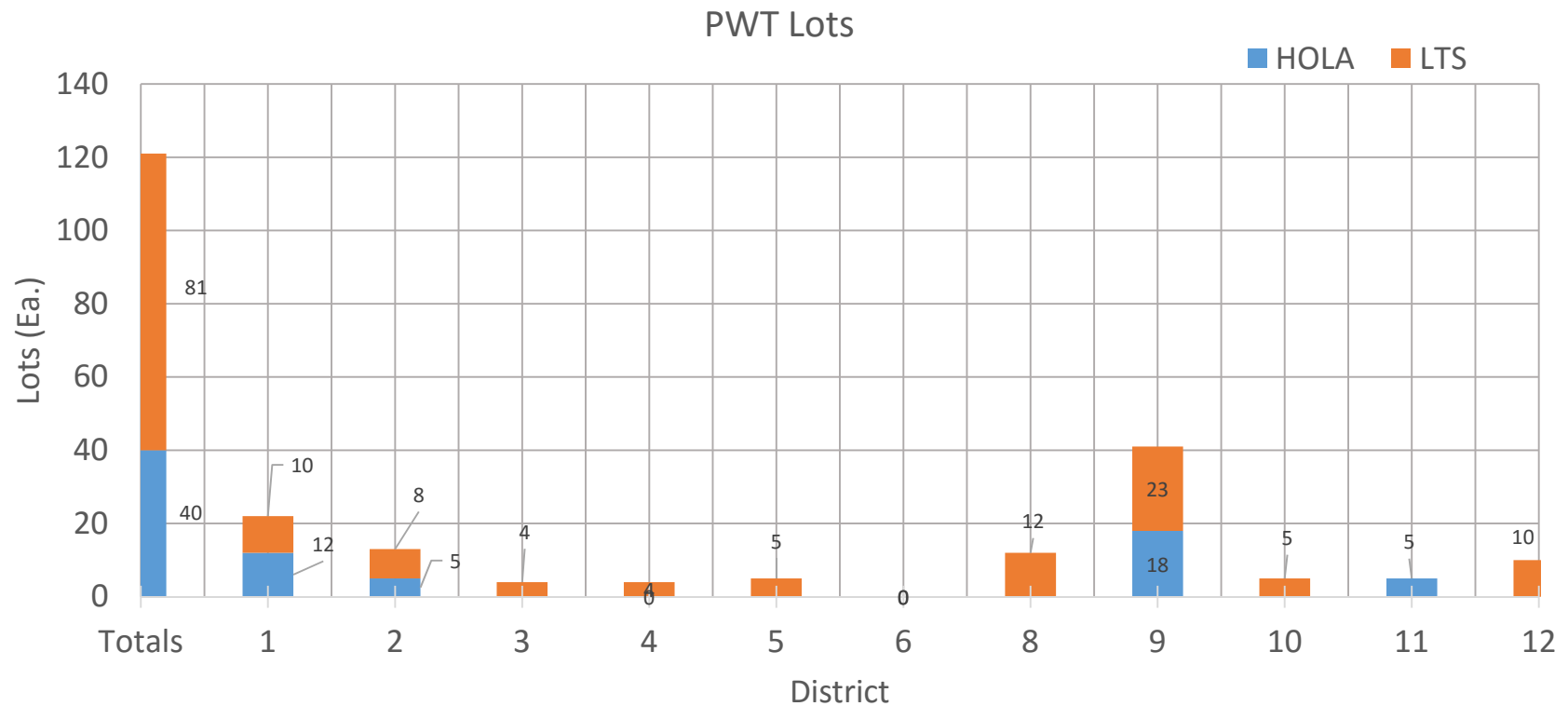
- Adds **bonus** structure (maximum 4%)
- Adds **mix gradation** (PCS) as part of payment
- Modifies current “goal posts” approach for 100% payment (good or no good)
- Results in fewer 100% payments and spreads these out (bonus and penalty)

2016 Construction Season

2016 PWT Projects

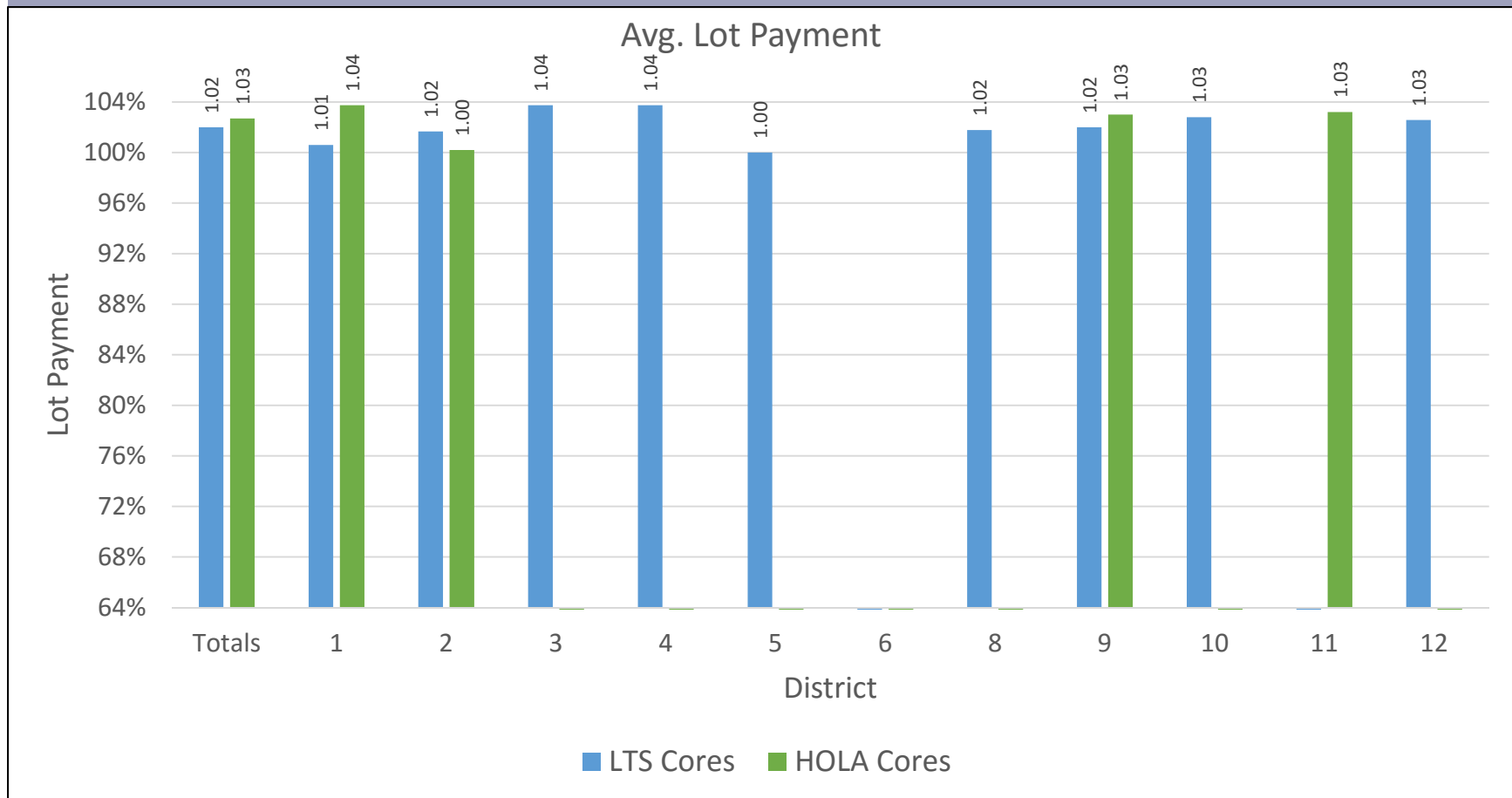
| District | PWT Projects | PWT-LTS | PWT-HOLA |
|----------|--------------|---------|----------|
| 1-0 | 15 | 14 | 1 |
| 2-0 | 4 | 3 | 1 |
| 3-0 | 8 | 7 | 1 |
| 4-0 | 4 | 3 | 1 |
| 5-0 | 13 | 11 | 2 |
| 6-0 | 11 | 10 | 1 |
| 8-0 | 41 | 40 | 1 |
| 9-0 | 16 | 7 | 9 |
| 10-0 | 14 | 13 | 1 |
| 11-0 | 8 | 7 | 1 |
| 12-0 | 10 | 9 | 1 |
| Total | 144 | 124 | 20 |

PWT Lots Tested to Date



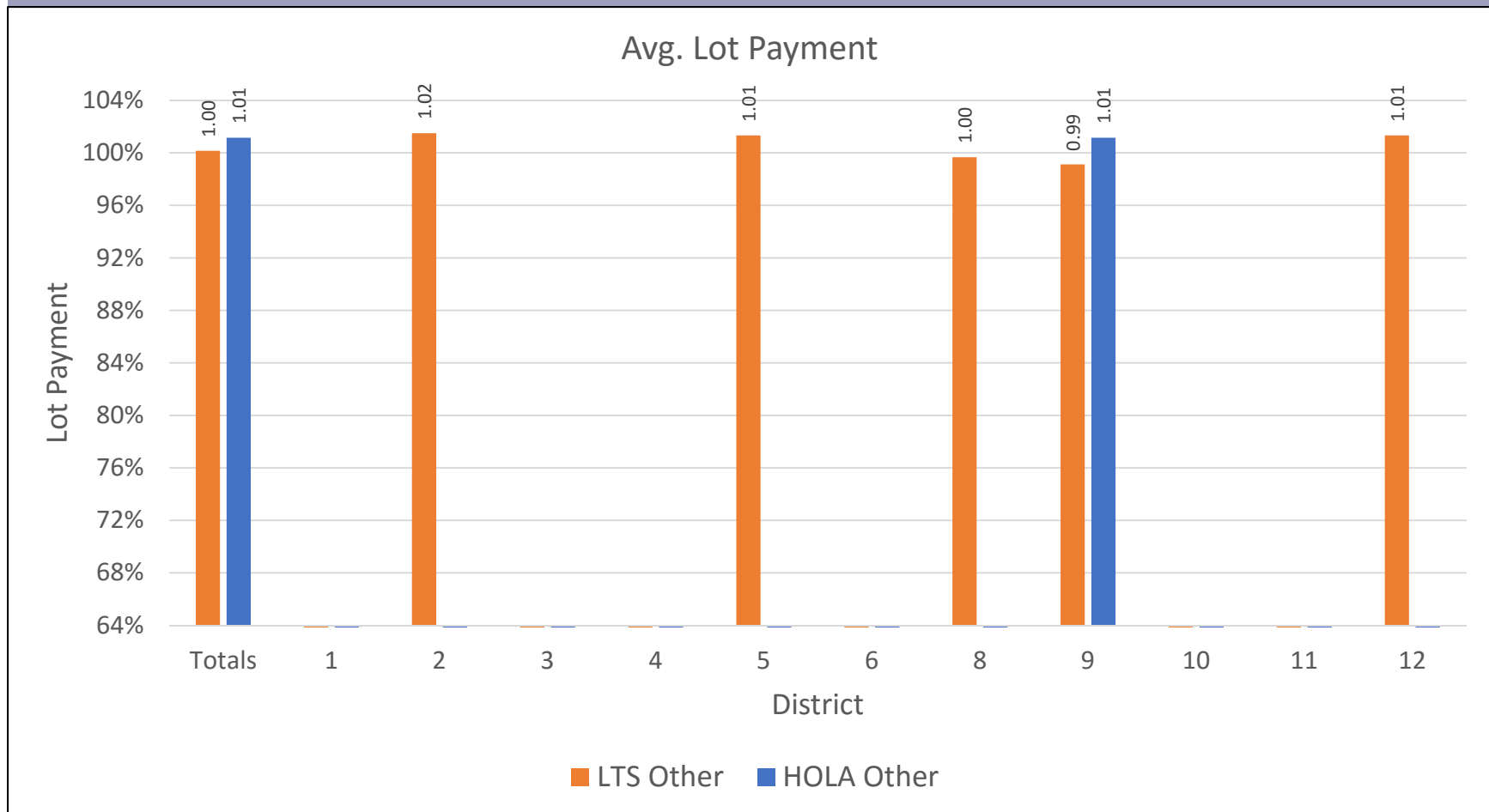
Average Lot Payment to Date

(Density Acceptance by Cores)



Average Lot Payment to Date

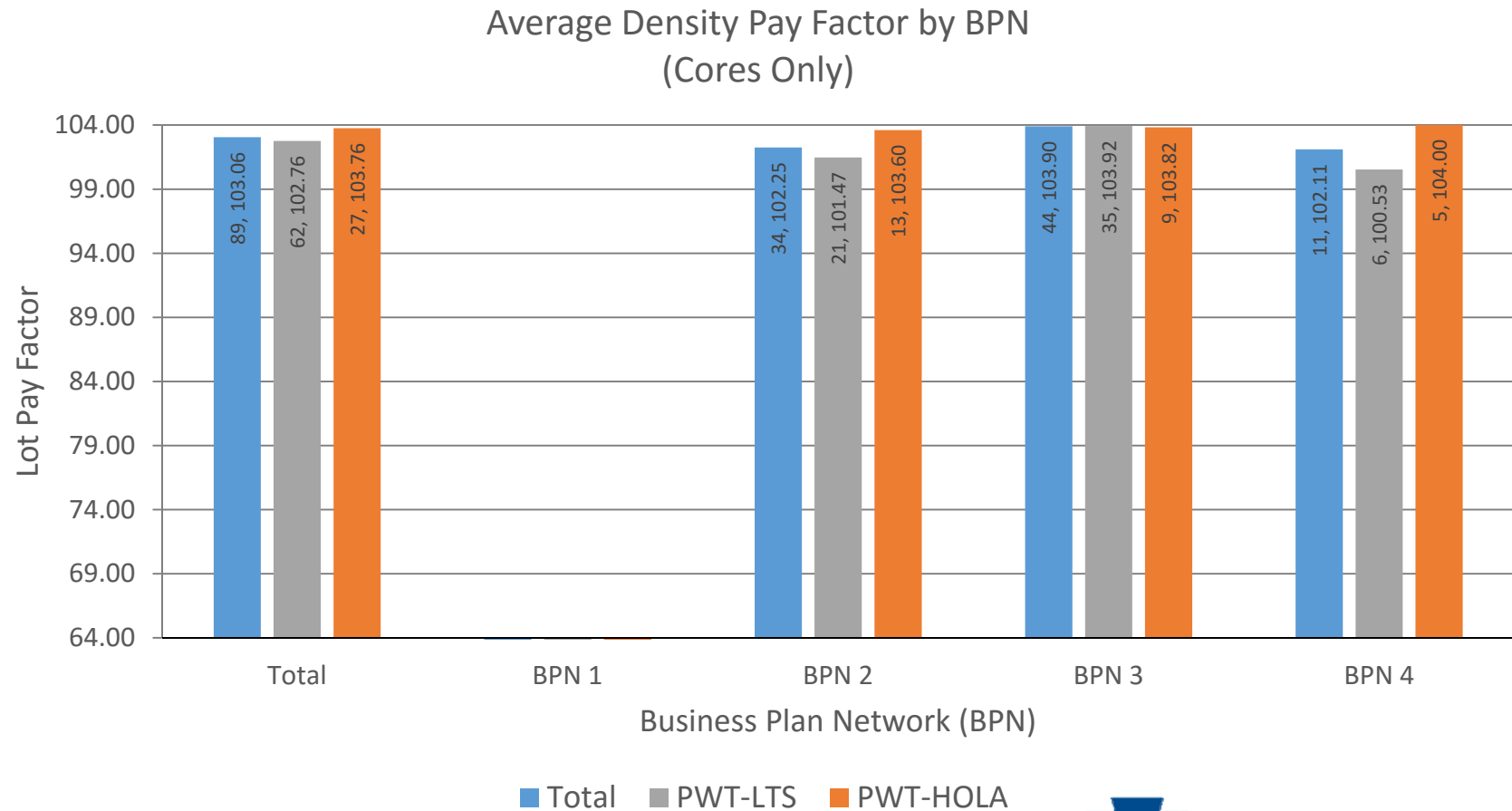
(Density Acceptance by Non-Movement or Optimum Rolling Pattern)



Summary of Results to Date

| as of 21-Jul-16 | | Overall Lot Payment Averages | | | Pay Factor Averages | | | |
|-----------------|------|------------------------------|-----------------------------|-----------------------------|---------------------|------------|-----------------------|--|
| | Lots | Average Lot Payment | Average Lot Payment (Cores) | Average Lot Payment (Other) | Asphalt Content | #200 Sieve | Primary Control Sieve | Density (Cores/Optimum Rolling/Non-Movement) |
| Total | 121 | 1.02 | 1.02 | 1.01 | 102.08 | 101.62 | 99.05 | 102.24 |
| PWT-HOLA | 40 | 1.02 | 1.03 | 1.01 | 102.61 | 100.67 | 101.20 | 102.50 |
| PWT-LTS | 81 | 1.02 | 1.02 | 1.00 | 101.81 | 102.08 | 97.99 | 102.11 |

Average Density Pay Factor by BPN



Common Hiccups

- Items Applicable to PWT
- Identifying PWT on TR-447 Form/eCAMMS
- Terminated Lot
- Contract Adjustments entered into ECMS
 - “PWT-LTS” or “PWT-HOLA” Adjustment Types

Be a Part of the TEAM

- Please feel free to email your comments, questions and experiences.

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Questions?