

PennDOT Updates: eTicketing, eCAMMS, eCerts and EPDs

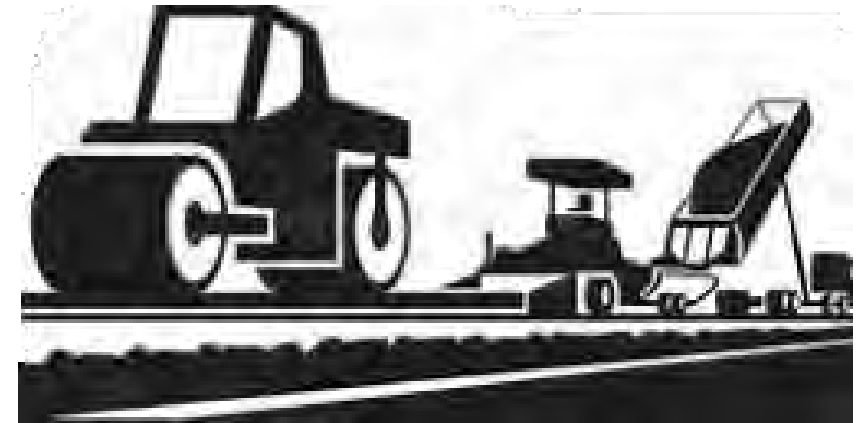
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in the
Engineering Automation & Services Division
of the
Bureau of Construction & Materials**

PennDOT eTicketing: Asphalt

Current Requirement

- Update to Pub 408 complete
- Incidental for all projects



PennDOT eTicketing: Aggregate and Concrete

Current Path

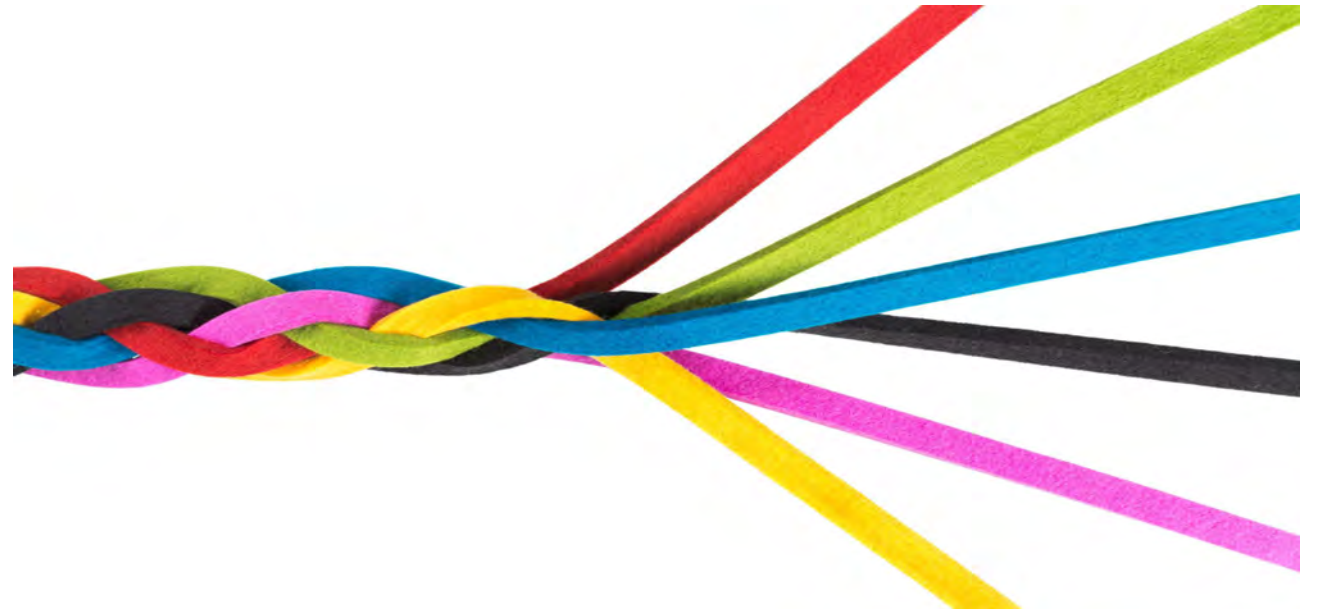
- **Continue in pilot status through 2025**
- **Continue to monitor progress**
- **Transition out of pilot stage**
 - TBD later this year



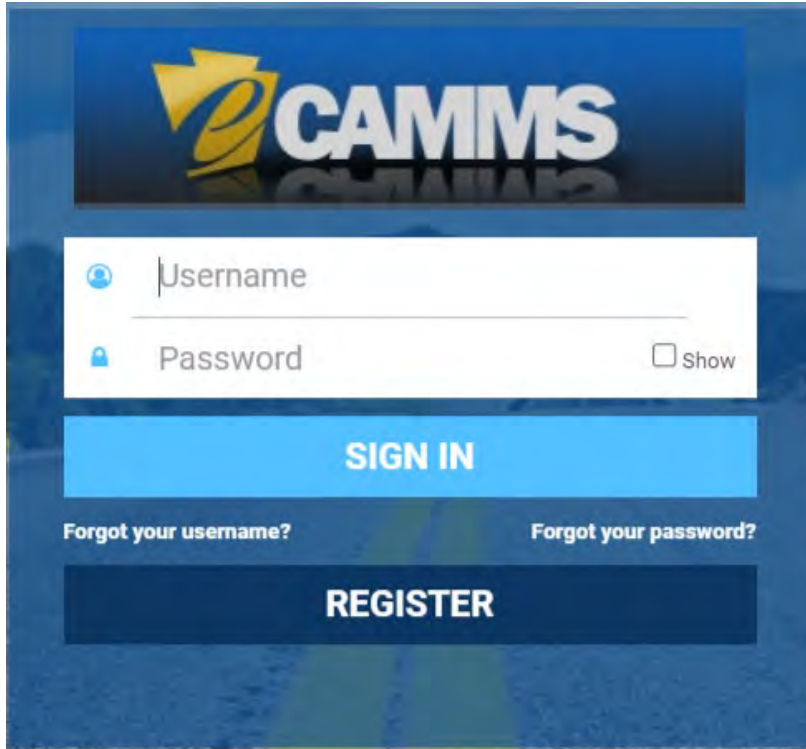
PennDOT eTicketing: Future Direction

Direction

- **Pause on new enhancements**
- **Deep dive evaluation**



eCAMMS – Releases Over the Past Year



- Release 40 – May 2024
- Release 42 – June 2024
- Release 41 – July 2024
- Release 43 – September 2024
- Release 44 – November 2024
- Release 45 – January 2025
- *Upcoming Release 46 – March 2025*

eCAMMS – Release 40 (May 2024)

JMF Changes

JMF Search and Export: Remove Duplicates from export

Sample Changes

Advanced Search: Sort results by Lot/Batch Number.....

New Product Application Changes

New Product Application: Required Fields updated.....

New Product Application: Adding Application Status Fields

ESB Changes.....

ESB Bituminous Quality Control: Bituminous to Asphalt label update on Summary Search Page.....

Amended Client Report Notification: Updated Survey Link

eCAMMS – Releases 42 (Jun 2024) and 44 (Nov 2024)

System Changes

Domain Migration to penndot.pa.gov Domain.....

System Changes

BI Gateway Domain Migration.....

eCAMMS – Release 41 (Jul 2024)

Sample Changes

Concrete Tests page Test Results.....

Mobile web services update for invoice code charges from 4932 to 4933.....

System Changes

Include date filtering for the reporting procedure WorkLoadByLabAreaReport

Shipment Record Data Load Optimization.....

eCAMMS – Release 43 (Sep 2024)

Advanced Search Changes

Client Report Search Right to Know.....

Client Report – Search Criteria Update.....

Sample Changes

Sample Deviation Maintenance – Display Federal Project Status.

ESB Changes.....

ESB Data Export Enhancement

System Changes

Bulletin tables updated with reporting addresses.....

eCAMMS – Release 45 (Jan 2025)

Advanced Search Changes

Advanced Search Export New Fields

Advanced Search Export Default field update

Client Report Search Criteria Update.....

Product Evaluation Changes

Voided Document formatting within Evaluation

Close button Validation

Additional Applicant optional detail

JMF Changes

IDEAL CT & Hamburg Design JMF subpages available ...

Bulletin 14 Changes

Approval Date for Agents.....

Sample Changes

Invalid PDF upload validation

System Changes

Export Material Class to QARS

SampleID Accession Client Report

Field availability from PROD to Reporting tables.....

eCAMMS – Upcoming Release 46 (Mar 2025)

- **Asphalt JMFs**
 - Additional data validations
 - IDEAL CT
 - Hamburg Wheel
 - Improved functionality for matching material class to correct ESAL range
 - Add IDEAL CT and Hamburg Wheel data to the JMF copy functionality
- **Concrete JMFs – improved assignment of volume of water specification**

eCAMMS – Creating Aggregate and Concrete Certs

The screenshot displays the eCAMMS web application interface. At the top left is the eCAMMS logo. The navigation menu includes: Home, Sample, JMF, ESB, Product Evaluation, Maintenance, Tools. The top right shows input fields for 'TR-447 Ref #' and 'Sample #' with search icons, and a 'Search' button. A yellow warning banner reads: 'You are working in the TEST SYSTEM - proceed with caution.'

ESB PLANT SUMMARY: SHIPMENT ENTRY

ESB Page Menu

Certificate Of Compliance - CS-4171

Print Preview Generate and Save [Show ESB Bituminous Samples](#)

Certificate Of Compliance History - No Report Found

Certificate	Size	Certification Date ▲	Created By	Delete
No records to display.				

eCAMMS – Aggregate Cert Caveat

- **Only for aggregates approved and listed in Bulletin 14**
- **Certificates for materials that are approved through a ‘rider’ approval must still be created through DocuSign process**
- **Example - If you are approved and listed in Bulletin 14 for coarse aggregate A57 and have a rider approval for No. 10 aggregate:**
 - For shipments of A57, you can use eCAMMS to create CS-4171
 - For shipments of No. 10, you must use DocuSign to create CS-4171
 - Do NOT generate a cert for A57 to cover your No. 10 shipment. It will be rejected.

What Happens After Agg/Conc Cert Generated in eCAMMS

- **Overnight batch process imports 4171 Certification PDFs into ECMS**
- **Contractor login to the ECMS project and click on Material Certifications**



ECMS – Material Certifications

- From the dropdown, the Contractor selects which type of cert they are looking for:


The screenshot shows a web interface for adding a certification. At the top, there is a label 'Certification of Compliance:' followed by a dropdown menu. To the right of the dropdown is a green button labeled 'ADD CERTIFICATION'. Below the dropdown, a list of certification types is displayed: CS-4171, CS-4171 B, CS-4171 CONCRETE, CS-4171 AGGREGATE, CS-4171 F, CS-4171 LA, and CS-4171 TRANSFER. To the right of this list, there is a 'Records Per Page:' dropdown menu set to '250'. Below the 'Records Per Page:' dropdown, there is a list of contractor services, each followed by '- P'.

Certification of Compliance:	ADD CERTIFICATION
CS-4171	Records Per Page: 250
CS-4171 B	ctor Services - 000373 - P
CS-4171 CONCRETE	ctor Services - 000373 - P
CS-4171 AGGREGATE	ctor Services - 000373 - P
CS-4171 F	ctor Services - 000373 - P
CS-4171 LA	ctor Services - 000373 - P
CS-4171 TRANSFER	ctor Services - 000373 - P

- Then they click the *Add Certification* button

ECMS – Material Certifications

- **The Contractor is presented a list of Suppliers and Material Classes**
 - In the case of concrete, they also see Mix Design Numbers



The screenshot shows a web interface titled "Available Records". At the top, there is a search bar with a "Filter" dropdown, a "Supplier Code" dropdown, an input field, and a "Go" button. Below the search bar, the interface displays "Records 1 to 5 of 5" and "Page 1 of 1". The main content is a table with the following columns: "Add", "Supplier Code", "Supplier Name", "Supplier Id", and "Material Class". Each row in the table has a green plus button in the "Add" column.

Add	Supplier Code	Supplier Name	Supplier Id	Material Class
+	AACMDA14	Allegany Aggregates		A57
+	AAI61A14	Allegheny Aggregate, Inc.		S2AGL
+	AAI61A14	Allegheny Aggregate, Inc.		C57GL
+	AAI61A14	Allegheny Aggregate, Inc.		C8GL
+	ABE48A14	ABE Materials - Easton		A57

- **They click the green plus button in the row of the material they want to enter a certification for**

ECMS – Material Certifications

- The Contractor is then presented a list of shipments matching the criteria they have selected

<input type="checkbox"/>	Shipment Date	Shipment Amount(Tons)	Shipment Prepared by
<input type="checkbox"/>	02/14/2023	65	Smeal S. Michael
<input type="checkbox"/>	02/14/2023	102	Smeal S. Michael

- Using the checkboxes, they select the records they want to add to the project and click the Save Selected button at the top

ECMS – Material Certifications

- The Contractor is returned to the list of Material Certifications and the items they selected have been added

MATERIAL CERTIFICATION LIST

Project: 31979 Go Standard / Federal Oversight

Short Description: ECMS/CDSv3 Release 8.0 Material Certifications Test Project - System Test for Lacy
County: Lancaster SR: 72
District: 08 Group ID: ---

Material Certification Book

- [View Certification Book](#)
- [View Material Test Results](#)

Certified Material List

Filter Certification ID Go


Records 1 to 14 of 14 Page 1 of 1

Certified	Certification ID	Shipment	Certification Type	Supplier Code	Supplier Name	Status
01/13/2022	11002	01/13/2022	CS-4171 B	PES22B41	Penssy Supply Inc., A CRH Company	Accepted
03/22/2023	11361	03/22/2023	CS-4171 B	AMM06A41	Allan Myers Materials	Accepted
02/07/2023	11932	02/07/2023	CS-4171 AGGREGATE	AAI61A14	Allegheny Aggregate, Inc.	Withdrawn
02/07/2023	11985	02/07/2023	CS-4171 AGGREGATE	AAI61A14	Allegheny Aggregate, Inc.	Inspector Review

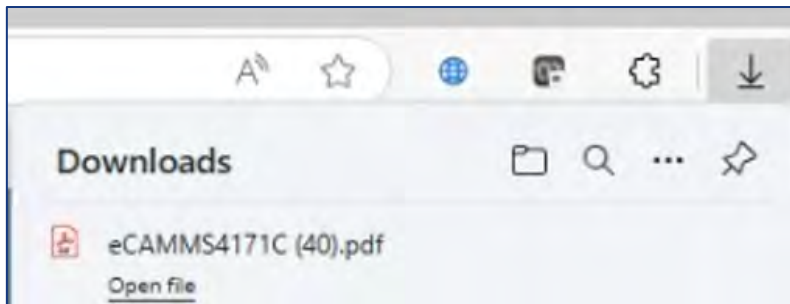
- The Contractor should do one last check by clicking on the certified date

Aggregate and Concrete Material Certifications – Final Thoughts

- Within the Certification of Compliance section of the full Certification page, on the right-hand side, the Contractor should click on the file cabinet icon

Certification of Compliance		Best Contractor Services
Certification For: Cement Concrete Materials(CS-4171 Concrete)	Date Added: 11/14/2024	Status: Inspector Review
Plant: Silvi Concrete Products	Plant Code: SIP46A42	Location:
Job Mix Formula (Year-Number): 2024-24-102	Material Class: A	Certificate Of Compliance: 
Pub 408 Section(s): 2020-1-704-E	Prepared By: Smeal S. Michael	Prepared On: 06/26/2024 10:29:59 AM
Shipment Date: 02/14/2023	Comments:	
Certification ID: 12181		

Success:



Failure:



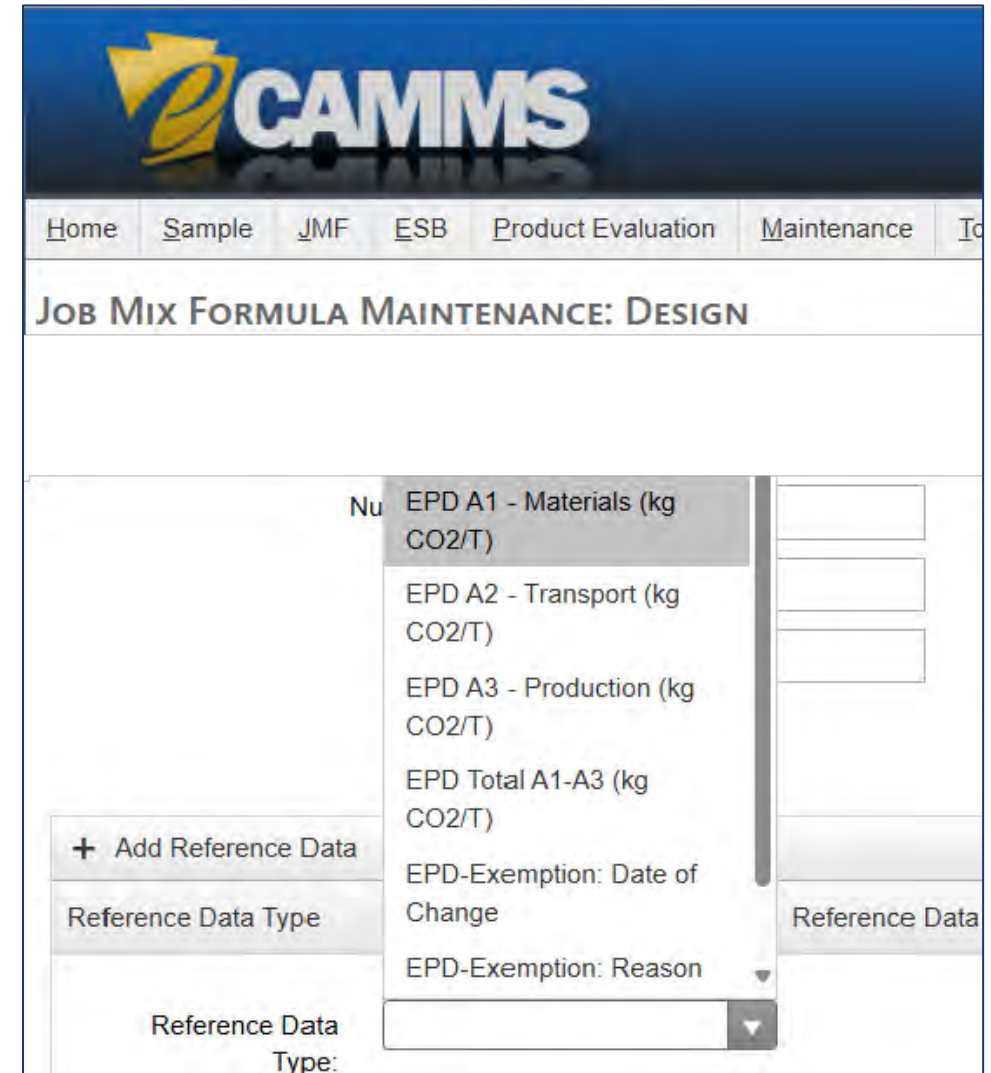
Environmental Product Declarations (EPDs)

- **Outreach - Webinar held October 31, 2024**
- **eCAMMS Home Page**
 - Additional information
 - Links to:
 - Webinar presentations
 - Webinar recording
 - FAQ document
 - EPD Submission Guide for Asphalt Producers
- **District Materials Unit**
 - Provided with Asphalt JMF EPD Internal Review Guide

EPDs Requirements 2025

- For all 2025 asphalt JMF submissions, there is a requirement for EPD data entry
- Data entry is accomplished using the Add Reference Data button at the bottom of the JMF Design page

No Exemption	Exemption
EPD A1 – Materials (kg CO2/T)	EPD-Exemption: Date of Change
EPD A2 – Transport (kg CO2/T)	EPD-Exemption: Reason
EPD A3 – Production (kg CO2/T)	
EPD Total A1-A3 (kg CO2/T)	



EPDs Requirements 2025

TABLE 4. LIFE CYCLE IMPACT INDICATORS

ACRONYM	INDICATOR	UNIT	QUANTITY PER METRIC TONNE ASPHALT MIXTURE (PER SHORT TON ASPHALT MIXTURE)			
			MATERIALS (A1)	TRANSPORT (A2)	PRODUCTION (A3)	TOTAL (A1-A3)
GWP-100	Global warming potential, incl. biogenic CO2	kg CO2 Equiv.	19.91 (18.07)	1.90 (1.72)	33.99 (30.83)	55.80 (50.62)
ODP	Ozone depletion potential	kg CFC-11 Equiv.	1.45e-08 (1.32e-08)	1.14e-08 (1.04e-08)	4.89e-08 (4.43e-08)	7.48e-08 (6.79e-08)
EP	Eutrophication potential	kg N Equiv.	5.34e-03 (4.85e-03)	5.65e-04 (5.12e-04)	3.66e-03 (3.32e-03)	9.56e-03 (8.68e-03)
AP	Acidification potential	kg SO2 Equiv.	5.90e-02 (5.35e-02)	9.66e-03 (8.76e-03)	1.38e-01 (1.25e-01)	2.07e-01 (1.88e-01)
POCP	Photochemical ozone creation potential	kg O3 Equiv.	1.25 (1.13)	0.31 (0.28)	1.97 (1.78)	3.52 (3.20)

EPDs to Date – 2025 Asphalt JMFs By The Numbers

	With EPD Data	New Plant / New Fuel Source	Not for ECMS Work	Missing EPD Data	Total
Approved JMFs	532	31	16	13*	587
JMFs in District Workflow to review					361
JMFs in Draft status in Producer's workflow					844
Total Submitted JMFs					587 + 361 = <u>948</u>
Grand Total Started/In Process/Completed					587 + 361 + 844 = <u>1,792</u>

* This item double counts some of the 'Not for ECMS Work' approved JMFs as the Reference Data for EPD-Exemption: Reason is missing

PennDOT eTicketing, eCAMMS and eCertification

THANK YOU!

The End

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