

Wisconsin Department of Transportation

Date: August 31, 2022

Subject: Agenda for Aggregate Subcommittee Meeting

Location: Galena Conference Room, Truax and Teams Meeting

Time: 8:00 AM to 10:00 AM

Attendees:

WisDOT Members:

- Barry Paye – BTS Director
- Erik Lyngdal – BTS Chief Materials Engineer P
- Tirupan Mandal – BTS Concrete Materials Lab Supervisor P
- Adam Albers – BTS Materials Lab Coordinator P
- Dan Reid – BTS Hydrogeologist P
- Robert Downing – BTS Soils and Aggregate Specialist
- Josh Seaman – BTS Aggregate Specialist P

FHWA Members:

- James Pforr – FHWA Pavement & Materials/Asset Management Engineer

Industry Members:

- Jack Peterson – Yahara Materials P
- Jr Ramthun – Michels Corporation P
- Mark Sander – MTE Services, Inc P
- Paul Mathe – MCC, Inc
- Matt Grove – Wisconsin Transportation Builders Association P
- Mike Kleist – James Peterson Sons, Inc P
- Erin Longmire – Erin Longmire Consulting, LLC P

Agenda Items:

1. Welcome and Introductions
2. CMM, and Spec Guidance
 - a. CMM guidance for base compaction with new information has been submitted
 - b. CMM timeline for submission and publishing: September 2022

- i. Previously analyzed CMM drafts were presented again as a last chance for comments before being submitted for CMM publishing on 9/15/22. Nobody in the subcommittee had any comments or objections to these drafts.
 - c. Spec changes will be done in Spring 2023
- 3. Base Compaction
 - a. Limiting the QMP Base Agg Dense 1¼” Compaction spec
 - i. Investigate improving guidance in the FDM for using this spec intended for mainline asphalt jobs, and not frontage roads/side roads, etc. Potentially look into tonnage language or something similar to make the exclusion of short/side roads clearer.
- 4. Recycled Concrete
 - a. Nine samples collected so far for 2022
 - i. Some are still being tested.
 - ii. Tracking these projects down and actually collecting a sample is more difficult than originally thought.
 - iii. Will need to continue collecting samples in 2023, and maybe beyond to build database.
 - b. Monitor the outlier projects for performance – develop monitoring plan.
 - i. 66% loss: 1430-01-77, Mauston - I 39; STH 13 To CTH B (2022)
 - ii. 48% loss: USH 10/STH 114 (2021)
 - c. Multi year effort to collect more data and derive useful conclusions.
- 5. User group for consistency between regions (*Industry*)
 - a. Mixture of BTS, regional and contractor members is not needed right now.

These issues can be brought to this subcommittee.
 - b. Process/procedure for bringing issues to BTS to get addressed with regions. Issues will be handled as they come into this subcommittee.
- 6. Plasticity Check (*Neal Atanasoff*)

- a. Lab qualification program needs inspection and updates to address this issue. Maybe have levels of qualification to match up with HTCP certs.
7. How will production of #5 mixtures affect the industry? (*WAPA*)
- a. Mixes are requiring finer material overall, which requires more rock to crush, more wear on equipment, more waste fines created.
 - b. How could the added waste be repurposed?
8. Can aggregate producers assure that optimized gradations can be produced? (*QA Unit*)
- a. Same notes as in #7.
9. AASHTOWare Subcommittee
- a. Spec re-organization.
 - b. General concept, table of contents and timeline was presented.
10. Virgin aggregate on top of RAP
- a. Reference SS-305.2.1 for spec language in question.
 - b. Is there anything we can do to make the RAP layer more permeable?
 - c. Industry is not recycling in instances and is actually wasting it or bringing back to the quarry and not using it in the most efficient way.
 - d. Can often be easier/cheaper to trash this material and reuse it elsewhere instead of on the job because of how this spec is written. It doesn't promote the use of recycled materials.
 - e. Before this, almost every job was done with RAP on lower layers, with virgin on top to finish.
 - f. Bring geotechnical and pavement departments into the conversation and continue working on this issue.

11. Others

a. Next meeting:

i. Full committee = 09/21/22.

ii. Subcommittee meeting = 12/15/22.