

Wisconsin Department of Transportation

Date: May 20, 2024

Subject: Agenda for Aggregate Technical Committee Meeting

Location: Antigo Conference Room, Truax and Teams Meeting

Time: 1:00 PM to 3:00 PM

Attendees

WisDOT Members:

- ☐ Barry Paye – BTS Director
- ☒ Erik Lyngdal – BTS Chief Materials Engineer
- ☒ Tirupan Mandal – BTS Concrete Materials Unit Supervisor
- ☒ Adam Albers – BTS Materials Lab Engineer
- ☒ Dan Reid – BTS Geologist
- ☒ Josh Seaman – BTS Aggregate Specialist
- ☒ Mark Kray – BTS Soils and Aggregate Specialist
- ☒ Aleksandra Graff – BTS Concrete Engineer
- ☒ Adam Johnson – BTS IA Program Coordinator
- ☒ Craig Smits – NCR TSS Chief
- ☒ Rebecca Rooyakkers – NER TSS Supervisor
- ☐ Andrew Zimmer – SER TSS Supervisor
- ☒ Jeff Bruesewitz – SE Freeways IA Specialist/Mega Material Engineer
- ☒ Greg Brecka – SWR PDS Project Manager
- ☒ Jaime Cynor – NER Concrete & Aggregate IA/QMP Coordinator
- ☒ Orville King – NWR Materials Engineer
- ☐ Keena Spencer-Dobson – NWR Materials Engineer
- ☒ Wayne Chase – BPD Local Program and Construction Project Oversight Unit

FHWA Members:

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

Industry Members:

- ☒ Jack Peterson – Yahara Materials
- ☒ JR Ramthun – Michels Corporation
- ☐ Mark Sander – MTE Services, Inc
- ☐ Matt Grove – Wisconsin Transportation Builders Association
- ☒ Mike Kleist – James Peterson Sons, Inc – Jeff P
- ☒ Erin Longmire – Erin Longmire Consulting, LLC
- ☒ Jeremy Barron – Walbec Group

- ☐ Bruce Brown – USGS subject matter expert
- ☐ David Hose – MTE Services, Inc
- ☒ Erik Olson – MTE Services, Inc
- ☒ Neal Atanasoff – Walbec Group
- ☒ Paul Eggen – Westwood
- ☐ Jason Weiker – Milestone Materials
- ☒ Deb Schwerman – Wisconsin Asphalt Pavement Association
- ☐ Kevin McMullen – Wisconsin Concrete Pavement Association
- ☒ Leslie Ashauer – Wisconsin Concrete Pavement Association
- ☒ Paul Minneti – Lannon Stone Products
- ☐ Steve Bloedow – Rock Road Companies, Inc.
- ☐ Tod Pauly – Aggrecon Ltd
- ☒ Travis Kurey – MCC, Inc

Agenda Items

1. Welcome – T. Mandal (10 mins)
 - Jeff Bruesewitz – SE Freeways IA Specialist/Mega Material Engineer
2. Review of Action Items – T. Mandal (10 mins)
3. MOTP – A. Albers (5 mins)
 - The department is seeking feedback regarding a standardized sieve verification procedure to add to T11. The committee agreed to the proposed MOTP change.
4. Charter Update – All (15 mins)
 - The previous charter is for 2023. WisDOT plans to update and finalize the charter for 2024-2026 by the next agg tech meeting.
5. Task Force Updates – T. Mandal/ D. Reid (10 mins)
 - ASR Testing
 - 46 quarry samples have been collected last year. All samples have been crushed to meet the ASR testing spec requirements. To date, nine samples have been tested.
 - MSE Wall Backfill
 - Taskforce had its first meeting in February. They are still in the data gathering and research phase.
 - The WHRP project for the removal of an MSE wall was conducted in March. Initial results indicate significant corrosion of the straps. Bridge abutment and slabs were not sealed, allowing corrosive salt solutions to contact with straps (both shallow and deep).
 - Test results and a full report of wall disassembly are upcoming.
 - The next meeting will take place this summer.

- Walls have a typical 75-year design life; the wall from this project is tested at ~35 years.
6. Aggregate Spec Re-org – A. Albers (20 min)
 - Feedback on the spec re-org from the committee was reviewed.
 - The aggregate source approval document was presented. Some minor changes are to be made to the definitions of recycled material in the source approval process document.
 - **Action Item:** T. Mandal to share the aggregate source approval document with the committee for feedback (*Sent with meeting minutes*).
 7. Aggregate Round Robin – A. Albers (15 mins)
 - 2024 virgin aggregate round robin results were presented.
 - Next year, the program will be integrated with the lab qualification process. Key attributes of the program were presented. Each lab will receive two bags as their sample. The program will take place in late summer and will be completed before October 15th of each year.
 8. Recycled Concrete Freeze/thaw Update – A. Albers (10 min)
 - The data from the recycled concrete round robin samples were presented.
 - The sample used in the round robin was within project limits and the variability between labs is similar to or better than virgin aggregates.
 9. State-wide F/T Testing – D. Reid (15 min)
 - Reaction with sodium sulfate (SS) solution could be causing unreliable test results. The Sinnipee group aggregates have increased exposure to this issue. Igneous/metamorphic types with foliation (phyllite, schist) could fail on a freeze/thaw test but can pass the SS test.
 - Several WHP research have looked at appropriate tests for aggregates in the state and have found the freeze/thaw test to be the best method to assess material durability.
 - BTS proposed to remove the SS test and have a statewide freeze/thaw testing program.
 - Industry wants to cross reference current QRY and PITs where the aggregate source would be rejected on the freeze/thaw test. What source now fails that would have passed, and what source passes that now would have failed?
 - **Action Item:** BTS will prepare the data to present to the committee.
 10. 310 Open Graded Base – T. Mandal (5 min)
 - Section 310 ASP6 currently references the AASHTO #67 with a spec limit for the No. 200. This No. 200 requirement will be removed, and AASHTO #67 gradation will be utilized in the specs. This spec change will take effect with the February update.

11. Next meeting

- **Action Item:** T. Mandal will send out a when is good poll for the next meeting (*Sent with meeting minutes*).

Review of Action Items

1. Base Aggregate: Small Quantity QC Testing

- What happens when the quantities increase during placement?
 - BTS presented proposed language that addresses this issue.
 - **Action Item:** T. Mandal will send the proposed language updates to the committee for review (*Sent with meeting minutes*).

2. Update/Redefine Material Categories

- No updates at this time.