

MINUTES:

DRAFT

When: Wednesday, September 4, 2019 11:00 – 12:00 PM (PDT)

Where: Web-conference

- I. There were 18 attendees to the WBPP regional web meeting. Attendees included:

Andrew Blower - Oregon DOT
Becky Nix – Utah DOT
Benoit Cordoba – Wyoming DOT
Chris Hardan – Montana DOT
Chris Keegan - Washington DOT
Clay Christensen – Dayton Superior
Darlene Lane - NCPP
Earl Franks – New Mexico DOT
Ed Welch - NCPP
Gregg Freeman - Kwikbond Polymers
Jason Fogg - HDR
John Gillis – Cal Trans
Michael Hill
Mitzi McIntyre – CTS Cement
Raj Ailaney – FHWA
Rob Hale – Evonik Corp.
Scott Choate – Agile Assets
Tim Woolery – Advanced Chemical Tech

- II. Welcome/Introductions

Chris H. welcomes all and leads roll call, requests comments on minutes. Chris K. says TC3 is free to everyone if you pay your annual dues. FHWA paid for access to cities and counties through AASHTO LTAP and TTAP and local agencies are included if State pays. Chris amends and minutes are approved based on changes.

- III. Working Group Updates

Local Agency Outreach – Gregg Freeman gives a working group update: The focus right now is on presentation modules. The introductory module is on preservation and how it should be implemented as part of an asset management plan. Travis is busy working on it. There are 7 or 8 activities modules which are almost completed. Next week in NEBPP I will be soliciting industry members to support further activities modules and looking to the FHWA preservation guide to supplement them. I'll be

looking to allow local agencies to choose from modules and fine tune from there. Any other comments?

Bridge Deck Chloride Testing – Chris H. reads an email update from Travis. The group is still trying to get the document finalized and has identified sections to complete. It is turning to future work. The group looks to develop a 30 minute presentation. The report focuses on identifying bridge sampling, collection, and analysis methods and stops short of providing recommendations on how to implement solutions from the data.

IV. Technical Topic

Accelerated Deterioration of Concrete Barrier – The state of Montana (MDT) is observing the accelerated deterioration of bridge concrete barrier rail. The cause of this accelerated deterioration has been attributed to the concrete barrier being exposed to a magnesium chloride based de-icing material used on the deck surface that contacts the barrier surface through traffic and snowplows. Currently MDT does not place a sealant or protective coating on concrete barrier rails but is looking at ways to protect the barrier and reduce the magnitude of this deterioration. MDT would like to learn what practices other states are using to protect concrete barrier rail and the materials being used.

MDT doesn't touch rail unless we have to replace it. Trying to figure out how to preserve this barrier rail

Tim W. – Perfect case for silane to keep the salt out – if you can keep the water out you can keep the chloride out.

Ed - Other DOTs are using silane on barriers, curbs, bearing, splash zones underneath, etc. on a 5 year cycle.

Chris K. Reminds group of the border bridge case study in the NE where half was treated with linseed oil and half was not and the treated half stayed in good condition while the other half deteriorated – Ed – lucky if the treatments lasts a year so switching to silane would be more economical.

Becky – In Utah we use penetrating sealer during initial construction. Not a silane, but a different penetrating sealer can send specification along.

Chris K. uses a paint on WSDOTs parapets.

Rob has a report with performance of different penetrating sealers that can be shared with the group and ED says can be posted to the website – will share with Chris for upload/distribution once available

Tim W. – 5 years is a good treatment cycle for silane

Ed – A washing program prior to treatment so you don't seal your salts in is good practice - WSDOT has good success

ODOT is trying some silicate products on median barrier exposed to MgCl. **Update this has not started yet** For historic bridge rail with shallow rebar detailing ODOT uses a 2 part system with a slurry type architectural coating and silane whether rehabilitation or replacement with precast or CIP railing.

Gregg – getting ready to distribute a report using polymer based barrier products. Would obviously help with the chloride issues due to low permeability. Report is looking at MASH compliance of these products. Will get information out as soon as report is completed.

V. Administrative Items

2020 WBPP Annual Meeting – The next annual meeting is Tuesday May 12, 8am through Thursday May 14th noon at the Renaissance Glendale Hotel in Phoenix. We are possibly planning on a couple of peer exchange sessions with a half a dozen topics repeating so people can discuss multiple topics. Soliciting for presentations will come closer to the end of the year and John Hooks will get a save the date flyer out soon. We encourage everyone to attend. We would like a few more people on the call, especially from Arizona and would like Clay on the call from industry so we can get industry representation on the steering committee.

Bridge Deck Product Database – Chris K. – We are still looking for responses to bridge deck product database. Look at what is on your QPL and why you use it. Because it lasts long? Has high early strength? It is a fairly quick survey and we need more states to take it! The group wanted it a couple months ago but they want more input so please take it. <https://www.surveymonkey.com/r/DY59W8Z>

Ed – There will be more follow up discussion about specific uses of materials.

Utah planning to fill it out but right in the middle of study looking at competing materials.

Chris Hardan Steps Down as Chair – Chris H. announces this will be last meeting as chair as he is moving to private industry. Herb has volunteered to be chair. Ed explained he could be acting chair until next in person meeting or be voted on the next call. Chris will work with Herb offline on details.

Budget – Was shown on screen and budget is healthy.

Travel to Regional Meetings – Darlene and Brandon are working to get him to Midwest in October. Andrew will be attending the NEBPP next week

Any NAIs?

Chris K. went out to deck with delaminations and epoxy injected them last week. Next week will do a deck seal. Hoping for 10 years. Between Tacoma and Puyallup.

How did you define the delaminations? Chain drag – bored and epoxy injected.

Q: Was In house or contracted out?

A: In house: 87.5 sq. ft. of delams on 4200 sq. ft. deck - caught early

Please keep everyone updated very interested in results!

Chris H. thanks all and the meeting is adjourned.