



2025 WORKING GROUP MEETING

Meeting Minutes

LOCATION: County of San Diego, 5560 Overland Ave. Room 171, San Diego, CA 92123; and Virtual via Microsoft Teams Meeting

DATE OF MEETING: February 11, 2024 (1:30 PM to 3:00 PM)

ATTENDEES: See attached attendance roster

PRESENTATION: Refer to the presentation link under the 2/11/25 meeting

AGENDA:

- 1) Sign-In/Meeting Overview
- 2) Public Comments
- 3) Welcome Message
- 4) Industry/Organization Updates
 - a. Brandon Milar (CalAPA)
 - b. Cameron Richardson (CALCIMA)
 - c. Mike McManus (AGC)
 - d. Nathan Forrest (CNCA)
- 5) County Resurfacing Forecast 2025
- 6) Subcommittee Update
- 7) Featured Presentation – Rejuvenators – Main Streets Materials
- 8) Next Building Better Roads Workgroup Meeting/Close

1) INTRODUCTION / SIGN-IN / MEETING OVERVIEW

Orland Mott, SNC Civil, Consultant for County of San Diego

- Asked everyone attending in person to sign in on one of the sign-in sheets, or if attending online to type their name, email and affiliation in the chat
- Thanked the County of San Diego’s Engineering Services Deputy Director, Samir Nuhaily for attending the meeting in person for first time.
- Assured everyone it was the start of the 7th year at the BBR which began in 2018.
- Noted that like other members, he agrees that great progress of this board directed initiative has been made to the Region’s paving operations.
- Thanked Keith Kezer, Al Ochoa, George Freiha and Ali Pirouzian for being part of the BBR leadership team along with him.
- Shared that we may be forced to pivot our approach and adapt to the tariffs and tax

changes heard in the news that will likely affect our industry.

- Shared the asphalt joke of the day courtesy of ChatGPT and wanted to compare it to Deep Seek's joke writing ability for future meeting and thinks A.I. has the potential to impact the asphalt industry.
- Shared the meeting agenda.
- Went over the building logistics and safety for those attending meeting.
- Went over the Teams meeting etiquette for virtual participants.

2) PUBLIC COMMENTS

- Orland opened the floor for public comment.
- No comments provided.
- Reminded meeting participants that this meeting is being held in accordance with the Brown Act.
- Reminded everyone that the meeting was being recorded, and participants could view a copy on the website, www.sandiegocounty.gov/bbr, along with the presentation and meeting minutes.
- Orland introduced the County of San Diego Interim Director, Bill Morgan for the welcome message.

3) WELCOME MESSAGE

William (Bill) Morgan, County of San Diego – Interim Director of Public Works

- Bill reminded group that since 2018, the concept for the BBR was to have collaboration regionally to improve our delivery and development as a collective benefit for all agencies.
- Showed appreciation for all the stakeholders and agencies that have stepped up for this effort
- Mentioned that in community meetings, and speaking with some supervisors, roads are important to them.
- Expressed that roads combine all our communities, jurisdictions and are a central focus
- Experienced the positive changes, relationships, cooperation within the County's program because of BBR and hoped other agencies feel the same.
- Thanked everyone in attendance today for their dedication and partnership.
- Offered his support.

4) INDUSTRY / ORGANIZATION UPDATES

Orland introduced Brandon Milar - Technical Director of CalAPA (The California Asphalt Pavement Association)

- Brandon presented the CalAPA update
- Began with the Specification Updates and the availability of the new 2024 Caltrans Standards and 2024 Greenbook with some changes incorporated as a result of BBR work.
- Directed those looking for an alternative asphalt specification to Section 39, to go to the City

and County Pavement Improvement Center (CCPIC)

- Mentioned the 2024 Greenbook revisions
- Noted the big change in the 2024 Caltrans Standard Specs regarding Mix Aggregate Gradation Acceptance and the key findings.
- Shared the emerging initiatives of Caltrans with Balanced Mix Designs
- Announced that Caltrans will require Environmental Product Declarations (EPDs) that provide information of Global Warming Potential of mixes.
- Provided the next CalAPA training courses dates, and the upcoming CalAPA Spring Conference dates and topics
- Orland thanked Brandon and announced a future training on Caltrans Section 39 potentially in Spring or summer.

Orland introduced Cameron Richardson from CalCIMA (California Construction and Industrial Materials Association)

- Cameron thanked Brandon for his presentation.
- Cameron introduced CalCIMA's major updates
- Shared that the second phase for the Caltrans high RAP/RAS pilot project was underway
- Sees more specifications utilizing RAP and rubber and is looking to bring information on the benefits and performance of these materials as a sustainable option.
- Mentioned that the purpose for using rubberized asphalt use is to reduce landfill.
- Shared of plans for upcoming Joint trainings and Certification programs for those wanting to get into the construction industry
- Shared that with the administration changes and questions of what will happen to the grants for Low-Carbon Transportation Materials (LCTM), Caltrans will continue efforts to bring low carbon materials at state level
- Cameron introduced Suzanne Seivright to talk about Advanced Clean Fleet Waiver
- Suzanne talked about how she doesn't think that any Advanced Clean Fleet Waivers will be granted through the current administration's EPA.
- Cameron talked about upcoming CalCIMA Events like the Spring Thaw: Safety Workshops, and CalCIMA Legislative Summit & Lobby Day
- Shared Abi Hague's contact information as well as his own.
- Orland thanked Cameron and Suzanne for their update.

Orland introduced Mike McManus, Director of Engineering and Construction Relations from AGC (The Association General Contractors of America)

- Mike presented the update on Construction Trends/Outlook
- Mentioned the potential opportunities and uncertainties the current President brings to this administration.
- Pointed out a potential opportunity will be the halting of proposed regulations and rolling back on existing regulations helping the construction industry and favorable taxes for businesses.
- Mentioned that tariffs will most likely raise prices on construction projects almost immediately.

- Reminded us of the President's restrictions on immigration could exacerbate labor shortages since most workers are foreign born.
- Shared the results for the following surveys:
 - Net % who expect value of projects to be higher/lower than in previous year
 - IIJA's impact on firms' business
 - Firm's major concerns for 2025
 - Fir's expectations regarding their headcount and hiring hourly craft worker's over the next 12 years
- Showed the numbers for U.S. Construction employment rising 3.2 percent in December 2024 from April 2023 and 7.9% compared to February 2020.
- Showed the numbers of California Construction Employment from January 2025, employing 1,124,441 men and 129,332 women and increase every year for 15 years.
- Shared the California Regulatory Environment update where CARB pulled request for EPA Waiver on Advanced Clean Fleets and overall, the Administration's halting on environmental restrictions.
- Shared the San Diego Region Expectations and the backlog of work and rising prices.
- Orland thanked Mike for his update.

Orland introduced Nathan Forrest, Technical Director from Cal Nevada Cement Association or CNCA

- Nathan presented the CNCA Cement and Concrete update.
- Reminded us of the Caltrans EPD Collection for projects advertised after Feb. 1st must submit concrete and asphalt EPDs, more information on <https://epd.dot.ca.gov/>
- Shared some changes in the 2024 Greenbook regarding Portland Limestone Cement, Supplementary Cementitious Materials (SCMs), Reclaimed Materials new names, AB2953, Specifying Concrete, Concrete by Compressive Strength, Mixing Concrete, Volumetric Mixing Trucks, Interlocking Concrete Pavers and Permeable Concrete Interlocking Pavers
- Announced education opportunities in April for the California Concrete Pavement Conference at UC Davis and registration information.
- Offered to answer questions and his contact information.
- Orland thanked Nathan for his update and all the other industry groups for providing updates.
- Orland skipped the County resurfacing and Subcommittee update to give the feature presentation enough time and have time for a Q&A session, followed by the county resurfacing forecast and Subcommittee Update.

5) FEATURE PRESENTATION – REJUVENATORS – MAIN STREET MATERIALS, INC **Orland introduced Paul Noring from Main Street Materials, Inc**

- Paul thanked Orland for calling him to present.
- Paul presented the topic of Rejuvenation in Asphalt.
- Shared a video of first photo ever taken in 1826 using asphalt oxidization with UV and air.
- Defined Rejuvenators as materials designed to restore the performance and properties of aged asphalt binders, reversing the effects of oxidation and improving flexibility and durability.

- Showed Rejuvenator Application Timeline graph.
- Discussed the application timeline of rejuvenates and being early in lifecycle of pavement.
- Talked about skid value of roads.
- Looking at roads deep enough to see how much to dose a road and how much absorption of rejuvenates is happening on roads.
- Shared the PMRE Fog Seal history of getting a rejuvenator on the roadway without sanding or without traffic tracking it, so he added a solvent resistant polymer into the formula.
- Explained that the Texture Seal process to bring back skid value and texture to roads after seal application.
- Shared study of Scrub Seal of when and where you can apply them to roads and showed images of a Caltrans road where it was applied.
- Talked about Cold In-Place Recycling and how rejuvenates being a part of this in studies.
- Admired the testing facility in the National Center for Asphalt Technology (NCAT), sharing that they studied rejuvenates and what they do to the pavement.
- Explained that NCAT speeds up the testing process of ten years into two years by stressing the pavement with 18,000pound axle loads going around the track for two years straight, while measuring what is happening to the asphalt.
- Explained how NCAT chooses what to study in order to verify the material claims.
- Went over two phases of Initial Application on NCAT Track, 2018
- Showed study's Phase VII: Mississippi & Tennessee Spray-On Rejuvenator Study
- Shared the Binder Stiffness graph in the study to find how long the materials last..
- Explained the Phase VIII: NCAT Test Track Results from 2021-2024 for the two top runners
- Encourage agencies to check the data.
- Shared the data Laboratory Confirmation graph for Glover-Rowe Index & Longevity of the Virgin, Virgin PAV, and Delta Mist HR PAV
- Brought up new technologies coming that use high concentrated rejuvenates, for night work or overcast days.
- Talked about materials that are clear so we can keep the striping on roads.
- Paul was asked how fast the truck's application rate, he answered 500 ft a minute.
- Another participant asked how deep they were looking at penetration, Paul answered 3/8 of an inch, when they cored they looked at 3/8 and will soon look at half an inch in the next round.
- Reiterated that dosage matters.
- Another participant asked about the how the emulsion based product can get low dosage rates, Paul explained that water gets reduced to half so it works well at nigh or in high humidity states like Florida, Alabama and Mississippi.
- Andrew asked you have to do a preparation of the road to increase the penetration which Paul answered that preparation is not required because the rejuvenators are very good at wetting.
- Orland asked what an agency who is interested in incorporating rejuvenators into their program, Paul recommended starting with the third party guys that tested it like NCAT and look at the price, look after the dosing without consequence, trying to do things once or not very often.
- Orland recommended the group to reach out to Paul if they have any questions.
- Orland thanked Paul for his informative presentation.

6) 2025 COUNTY OF SAN DIEGO RESURFACING FORECAST

- Orland shared that the County of San Diego like most agencies ramped up resurfacing efforts with the implementation of SB-1, directing gas tax fees for maintenance efforts

- Noted that at the completion of Y6, 745 miles or 40% of the county's total road network will have been resurfaced at a cost of \$250 million.
- Shared that the county network has gone from a PCI of 60 to 68.
- Hopes that it can reach the goal of a PCI of 70 in the next few years.
- Announced the county's largest resurfacing contract advertisement in 2025 will serve as an analysis in the future as to whether the county will advertise larger contracts or go back to advertising smaller contracts.
- Reminded those interested in bidding for this Year 7 resurfacing contract to get pre-qualified through BUYNET - <https://sdbuynet.sandiegocounty.gov/> , prequalification happening 4 times a year.

7) BBR SUBCOMMITTEE UPDATES

- Orland reminded us of the 2024 subcommittee topics and their leads and asked them to reach out if they are feeling stuck or struggling with their topics.
- Shared that Maure Creager and her team is proceeding with the first phase of the topic of pelletized asphalt shingles producing a draft which was circulated amongst the leadership team who provided comments and now a final draft is circulating again to then get a guidance document.
- Explained that the second phase will be to find an agency to test the material and develop a pilot project.
- Thanked Maure and her team for their efforts and responsiveness.
- Looked back at the 2023 topics
- Shared that Adam Barber was doing final editing on his topic, Recycled Plastic Asphalt Additives Use in HMA which offers technical details on use of waste plastic as a binder replacement/supplement.
- Gave kudos to Adam for authoring this document without much help.
- Encouraged any agency looking for sustainability to review this document which will be posted in a few weeks.
- Explained that he has been in contact with Andrew to figure out if the High RAP HMA topic is feasible to conduct the pilot study at this point.
- Shared that AI is wrapping up his regional mix design topic, and a few mixes may potentially be posted on the BBR website that could be used on Caltrans and Greenbook jobs but want to get feedback from the group to see if they will be used.

8) NEXT WORKING GROUP MEETING / CLOSE

- Orland thanked everyone for attending the meeting and sticking around a few more minutes.
- Hoped to see everyone at the next BBR meeting in June.

<Meeting Adjourned>