PGAR TASK GROUP MEETING

September 13, 2013

Granite Bradshaw Summit Trailer

- Review of Scoping Document
- Discussion of text sections of Scoping Document
    - Delay much discussion until review of comments received (later)
- Some labs may be reluctant to do protocol
- Sallie: Only change is changing the gap
- What is the workshop for? Peter says to get information out
    - Present data and talk about lessons learned
- Initial test was one binder
- Next phase multiple binders to get precision and bias
- Work plan – peter says could be simple
- Sallie makes presentation – see handout
    - 9 Labs data presented, Sallie will update to include 10th lab, Chico state which also included cup and bob data
        - Caltrans did not participate
    - Tested everything in triplicate
    - List of tests ran and statistical analysis
    - Only 1 sample – couldn't determine precision and bias but pooled variances
        - Used ASTM procedure C 802
    - Plots of labs vs. variance
    - Ready to go to Phase 2 –11 labs recommended
    - Jack: Phase 1 was to see if concept is valid – clearly shows that this is feasible
    - Sallie – next phase will create standard deviation, etc. – need multiple field samples
    - Very good response to study
    - One lab on RTFO was exception
    - Tony: lab with wider variance do we know why – Sallie says maybe they had wrong intermediate temperature
    - Rita: Round Robin Testing on finer mesh rubber? Sallie: Not done as far as she knows
    - Kee Foo: how does variance compare with neat binder? Sallie: we don't know yet
    - Rita: Coefficient of Variability would be good indicator material to material
    - Sallie – use 3 mm gap
    - Roger: problem in past round robin was states using different protocol. Sallie: sent out test method with details and nuances. Also talked with labs and she will send her technician to the labs to show methods.
    - Max size of crumb rubber was 100% passing #8. Typical Caltrans spec.
    - Scoping document says max size is 1.4mm but that is incorrect (2mm)
    - Malvern worked with VSSI on this
    - Phase 2 should have same labs participating and maybe some more.

- Sallie: Will CT lab join in for Phase 2? Jack: Will CT commit to participate? Peter: If not through CT lab, then through university labs. CT will participate.
- There was no matrix circulated for comments on Scoping Document – Haiping has one, copied.
- PG grading of asphalt rubber not going to work for design based on climatic and traffic. Chuck says base binders are specified on climate so why not asphalt rubber.
- Jack: Scoping document has errors and was put together without addressing all comments.
- PG system was based on neat binders; maybe PG grading is not applicable for highly modified binders. Jack: specify base asphalt. Chuck: that's what we want to get away from.
- Jack: first let's develop procedure, and then go to next phase. Look into different specs for different climates. Traffic should not be any part of it.
- Haiping: Traffic is part of MSCR spec.
- Jack: Comment Matrix Item no. 1 – we should use what is actually used, include gradations. Everyone agreed to change 1.4 to 2.0.
- Comment Matrix Item no. 2. – Jack comments were sent in and scoping document. Peter use scoping document and turn into work plan. Work plan can include editorial comments on errors in scoping document. Website has template for work plan. RPC.
- Comment Matrix Item no 9. – this is not happening, will be done next season. PGAR TG to recommend how many jobs we need data from.
- Roger: work will apply to spray applications and hotmix? Yes.
- Chuck: can put test modifications in specs and generate "report only" data. Group agreed that many projects would test.
- Mark will work on work plan template draft and then send out next week.
- Chuck needs to work on round robin No. 2 and all agree on this. How many labs, how many replicates, etc.
- Brandon: Will someone from CT be at PCCAS? Joe Peterson will be there.
- Sallie: We will need help getting samples for testing. Maybe other suppliers will provide.
- Jack asks Sallie to draft up what different samples should be, i.e. base asphalt, AR type, crumb rubber %. Sallie will discuss with PCASS round robin committee
- Roger: Is it a given PCCAS will agree to do phase 2? They have already agreed to this.
- Mark send out email to everyone about when PCCAS meeting.
- How can we get pilot projects going with CT, Peter says they will look into it.