

MINUTES
NORTH CAROLINA SEDIMENTATION CONTROL COMMISSION
COMMISSION'S TECHNICAL COMMITTEE
NOVEMBER 18, 2021
ONLINE WEBEX MEETING

The North Carolina Sedimentation Control Commission's Commission Technical Committee met on November 18, 2021 at 3:30 p.m. online via WebEx. The following persons were in attendance for all or part of the meeting:

COMMITTEE MEMBERS

Mr. Mark Taylor (Chair)
Ms. Karyn Pageau (Vice-Chair)
Mr. AJ Lang
Mr. Donald Pearson
Dr. Rich McLaughlin
Ms. Robin Smith
Mr. Steve Albright
Ms. Toni Norton

OTHERS

Ms. Julie Coco, State Sediment Specialist, DEMLR, DEQ
Mr. Graham Parrish, Assistant State Sediment Specialist, DEMLR, DEQ
Ms. Rebecca Coppa, Sediment Education Specialist, DEMLR, DEQ

Minutes:

Chair Mark Taylor began the meeting at 3:30 pm.

Draft meeting minutes from 10/21/21 were approved by consensus.

Mr. Taylor handed the floor over to Mr. Pearson and Mr. Albright to begin the review of their work to date beginning with temporary sediment traps. There were no comments about their progress until they got to silt fence outlets. There was a comment that silt fence outlet also needs to be defined or additional clarification is needed within the manual if it is used. Mr. Pearson questioned if the drainage from up to five acres that goes into a sediment trap should be then discharged through a silt fence outlet or if the discharge should be stabilized/treated completely and go through another device first. Discussion ensued. Clarification is requested from the LQS staff of what they wanted there.

Mr. Pearson moved on to the request for adding information for the dewatering of silt bags. As well as dewatering any remaining water during the sediment trap removal. Ms. Coco added

that the NCG01 has guidelines for dewatering basins and that the committee can look to see if there is anything worth adopting from that. Ms. Coco also mentioned that it came to her attention recently that breaching a sediment basin has come into question. Donald mentioned that they could expand what his/Mr. Albright's group is doing to include more information on the removal of sediment basins/traps. Mr. Pearson/Mr. Albright asked for additional clarification/context for the "Provide statement in maintenance for disposal of excavated sediment" comment from LQS staff.

Mr. Pearson moved on to the final LQS staff request in the temporary sediment basin section: "Place emergency spillway in undisturbed soils" and had questions about this. The main question that isn't the main spillway/weir designed to release water from storm events so why is an additional spillway needed? Discussion ensued.

Mr. Pearson moved on to the sediment fence section comments. Their first comment being that the Field Manual refers to silt fence and sediment fence while the Design manual refers to it as sediment fence and the terminology would need streamlined/updated as well. Mr. Pearson brought up the idea that offset trenching should be considered as a method for installation and they discussed it with Dr. McLaughlin and found information from Auburn University. Mr. Pearson also mentioned that the 10-foot offset from the toe of the slope needs to be incorporated/mentioned more in the manual/schematics. Dr. McLaughlin commented that the offset trenching method showed less failure than traditional trenching method in testing.

Mr. Pearson moved on to skimmer sediment basin section comments. Many of the comments made in the temporary sediment basin section are also applicable here including stabilization using RECPs and dewatering guidance. Mr. Pearson mentioned that they recommend adding information about the transportation of discharge from the skimmer basin to the limits of disturbance and they recommend putting it in the construction sequence. Dr. McLaughlin commented that discharge from the spillway is erosive and in the same area. Mr. Pearson moved on to the next comment of how to get runoff into the skimmer basins/sediment traps by using diversions/slope drains/etc. and included that information in the design criteria section and the construction sequence. Mr. Pearson moved on to the request to provide more information on porous baffles. They feel that including a note on the basin schematic where the baffle spacing information/calculations are in the manual (in the baffle section) would be appropriate/helpful. Mr. Pearson and Mr. Albright asked for clarification about what LQS staff meant by slope angle and width of the crest. Their final comment for this section was adding to the information for the removal of the basin. Dr. McLaughlin questioned if there is ever a mechanical device used for dewatering that's not a pump and if pumping shouldn't just be said instead. Mr. Pearson agreed that the term "pumping" would work.

Mr. Pearson and Mr. Albright's last section was the porous baffles section. Their response to the comment/request to "provide length and depth of skirt to be buried" was that the baffle is not intended to be trenched but to be pinned and is discussed in the construction sequence. So

they weren't sure if that was something that LQS staff wanted changed or if it was just a misunderstanding. The last comment/request in this section was the use of an arc or chevron pattern and they agreed that some improvements need to be made to the description on this topic and recommended adding it to the construction specifications around item 4 or 5. They also thought adding another schematic/illustration to demonstrate the concept would be beneficial.

Mr. Taylor thanked Mr. Pearson and Mr. Albright for their work and commented that a practice standard is needed for silt fence outlet and as that is needed for revision of an existing standard it should be elevated in priority.

Both Ms. Smith and Dr. McLaughlin had to leave the meeting early so their re-review was pushed to a future meeting.

Mr. Taylor then opened the floor for open discussion for the remaining time. Mr. Taylor began with updated activity since the last meeting including questions that DEMLR have addressed/still need to address including being able to cross reference the NCDOT manual, and copyright issues. Mr. Taylor also commented that separate manuals from NCDOT and NCDEQ will probably continue to be the preferred way to proceed. Mr. Taylor also added that NCDEQ does not have the capability to have an approved product list like NCDOT since they do not have the testing facilities or resources that NCDOT does. Mr. Taylor also stated that he reported on the committee's progress to the most recent Sedimentation Control Commission meeting. One thing that came out of a recent call Mr. Taylor and Ms. Pageau had with Ms. Coco is that when it comes to publishing updates they should be done in large chunks, with the smallest increment being a Section. Mr. Taylor stated that he and Ms. Pageau are vetting the list of industry leaders that the work groups should reference when doing updates.

Mr. Taylor opened the floor and Mr. Pearson asked if the recorded chat is/could be saved in addition to the meeting transcript. Ms. Coppa answered that it could be saved if the meeting host remembers to save the files when WebEx prompts when the meeting is ended. Mr. Albright asked if the Design Manual can be available in a MS Word document before the thorough review is expected. Ms. Coco and Ms. Coppa said that LQS staff are working on it and to let Ms. Coppa know if there are any sections, in particular, the committee wants her to prioritize. Mr. Taylor also added that the final edits will be by the LQS. Mr. Pearson also stated that the committee should recommend that LQS use an engineering firm to assist with getting the manual in an editable form and support the evolution/update of the manual as well. It was proposed to include that discussion on a future agenda as LQS staff was not ready to discuss it today. Mr. Taylor proposed that in addition to that topic, instead of reviewing a new group, that the committee should revisit the last two workgroups at the next meeting.

The next regularly scheduled meeting is scheduled for 3:30pm on December 16.

Mr. Taylor adjourned the meeting at 5:00 pm