

**Sewage Treatment Systems Technical Advisory Committee
MEETING MINUTES**

Date: Tuesday, April 9, 2019
Time: 10:00 a.m.
Place: BWC/OSOSH
13430 Yarmouth Drive
Pickerington, Ohio

TAC Members in Attendance:

Manufacturer Representative & Committee Chair: Chris Mandich
OEHA Registered Sanitarian & Vice Chair: Dan Lark, Lake County General Health District
Manufacture Representative: Zak Sherman
ODH Director of Health Representative & TAC Secretary: Rachel Townsend
Designer: David Chronister
AOHC Health Commissioner: Julianne Nesbit, Clermont County Health Commissioner
Ohio EPA DSW Engineer: Brian Hall
Professional Engineer: Walt Sandefur
Ohio Townships Association Representative: Gary Salmon
Public Representative: Christopher Schraff
ODA Soil Scientist: Matt Lane

Absent:

Installer/Service Provider: Chas Kaiser
Academic: Karen Mancl

Vacant:

AOHC Health Commissioner

Guests:

Jesse Shamp: Frost Brown Todd
James Conley: Hydro-Action
Don Carabin: Norweco
Weston Strayer: Norweco
Dewey Conrad: Ecological Tanks Inc
Marie-Christine Belanger: Premier Tech Aqua
Oran Biehl: Premier Tech Aqua
Paul Rice: Tangent Company

Other ODH participants:

Dusten Gurney
Audrey Blakeman
Robert M Laubert

Welcome and Introduction:

The meeting was called to order at 10:04 a.m. by Chairman Chris Mandich. Meeting attendees were introduced.

TAC Appointments Update

ODH has been informed that AOHC is working on getting their vacancy filled. Paperwork has been submitted. Zak Sherman's appointment will expire April 12, 2019. He has been working with his appointing body to ensure that they have all of the materials they need to consider his reappointment. He can continue to serve as an active committee member for up to sixty days after his term limit if he is not formally reappointed before the expiration of his term.

Approval/modification to the agenda

Chris Mandich asked if any modifications to the agenda needed to be made. No changes were requested. Chris Schraff motioned to approve the agenda, seconded by Dan Lark, all in favor, motion approved.

Approval of March 12, 2019 Minutes

Chris asked for any comments regarding the draft minutes from the February meeting. Walt Sandefur asked that "test values less than one will be entered as one" be amended to "test values for E. coli/fecal coliform less than 1 will be entered as 1" for changes in draft calculating spreadsheet for product data portion of the minutes. Gary Salmon motioned to approve the minutes as amended. Chris Schraff seconded the motion. All were in favor.

Premier Tech Ecoflo Coco Filter + DiUV seeking approval for:

- <20 Fecal Coliform Reduction for Unrestricted Surface Spray Application
- <200 Fecal Coliform Reduction for Restricted Surface Spray Application
- <1,000 Fecal Coliform Reduction for a 2' Soil Depth Credit
- <10,000 Fecal Coliform Reduction for a 1' Soil Depth Credit
- CBOD5 <25mg/L and TSS <30mg/L for sizing reduction.

Marie-Christine Belanger from Premier Tech Aqua gave a presentation concerning the modification request for the Ecoflo Coco Filter units that were previously approved for CBOD/TSS sizing reduction. This modification adds a DiUV unit to the Ecoflo Coco Filter unit in order to qualify for a one- and two-foot soil depth credit along with the restricted and unrestricted surface spray irrigation application.

Ms. Belanger presented the test results from BNQ (Annex B) and NSF Standard 40 reports (Annex A). This product has the effluent pumped through the UV unit (DiUV) at a constant rate which is 1.55 gallons per minute and the daily flow rate tested was 385L/m²/day, This Ecoflo unit can be used in either concrete or fiberglass tanks and can retrofit into any separate compartment.

Discussion was held concerning the presented data, along with questions about the required frequency of media replacement, life of the DiUV bulb, and pump lock out devices and alarms for when UV failed. The presentation also included details on the layout of the system, typical installation, and annual training for installers.

Chris Schraff made a motion to approve this modification request as presented. Dan Lark seconded the motion. The motion carried with seven (7) Yes votes and three (3) abstentions. Chris Mandich, Matt Lane, and Walt Sandefur abstained from voting. Motion carried.

Ecological Tanks Inc.

Modification request to include Aqua Aire models AA500-50 and AA500T-50 as models with integrated pretreatment tanks and not requiring a separate pretreatment tank. The previously approved tanks AA500-35, AA500T-32, AA600-50 and AA800-65 were granted approval July 2014.

Dewey Conrad from Ecological Tanks was present to answer questions.

Chris Mandich asked why these two tanks were not on the NSF listing. Mr. Conrad stated it was because they have not been produced yet, due to cost of making the molds Ecological Tanks Inc. was asking for conditional approval so molds for these tanks could be made. Water tightness and structural integrity would be part of the NSF process.

The TAC asked for the drawing with dimensions of the original treatment train with integrated pretreatment tanks so comparisons could be made. The TAC also asked for a letter from NSF stating that NSF would be agreeable with the Aqua Aire models AA500-50 and AA500T-50 treatment trains as submitted.

Julianne Nesbit made a motion to table this request until the next TAC meeting so additional information from NSF and drawing with dimensions of the previously approved tanks with integrated pretreatment tanks could be submitted by Ecological Tanks Inc. The motion was seconded by Gary Salmon. All were in favor to table this modification request until the next meeting. Chris Schraff abstained from this motion.

Draft Calculating Spreadsheet for Product Data

Walt Sandefur gave updates of this draft calculating spreadsheet. Walt updated the column headings and instructions on the spreadsheet to make the language consistent with the TAC standards and guidelines.

Walt is still working on the resolving the “date” issue on the spreadsheet so dates can be entered. He also expanded the spreadsheet so a maximum amount of 500 data points that can be entered.

At the March TAC meeting, concerns were raised about the which confidence interval function was selected for the spreadsheet because multiple similar functions are available in Excel. Ohio EPA staff who have statistics backgrounds checked the confidence interval function in the spreadsheet and report that the correct formula was selected.

The spreadsheet will serve as a tool for product submission and should help standardize the analysis of submitted data. Once the spreadsheet is finalized, the formulas and cells of the document will be locked, instructions drafted, and it will be made available for use.

Field Data Discussion

Workgroup members summarized the calls held since the last TAC meeting and discussions ensued. The workgroup presented several proposals for field data testing requirements. The workgroup proposed that field-testing criteria should include data collection from twelve different sites at a rate of four samples per year, representative of each season. Due to time constraints for gathering this

data before the upcoming 2020 product renewal period, the workgroup discussed that products due for 2020 renewal might include only 9 sites with fewer samples.

It was also discussed that special consideration may be needed for smaller manufacturers or those who do not have numerous systems installed in Ohio. A procedure may need to be developed to consider a "sliding scale" type of field data requirement for those manufacturers.

Discussion took place considering system selection for field data collection. Manufacturers would select systems that had active service contracts and had received appropriate maintenance. Information about the households these systems serve should include the number of people in the household, but the information would need to be generalized to avoid inadvertently disclosing identifying information of the system owners in public records. It was agreed by all that affluent characteristics were not something that should be considered when evaluating the field-testing data because it is highly variable from household to household.

Rachel will schedule the next field data workgroup meeting.

TAC members inquired about the number of approved products that will be due for renewal by 12/31/2020. ODH staff will compile the list for distribution to TAC members.

Additional Updates

Chris Mandich asked for any additional updates. When there were none, he stated that he would like to note that no questions were asked or considerations made for the operation of the Premier Tech Ecoflo Coco Filter + DiUV control panels during the earlier discussion.

TAC Members agreed that it is difficult to review every aspect of the products being brought before the TAC for approval. Brian Hall suggested the creation of a TAC review checklist to ensure that members review products both for rule requirements and standards. Walt suggested that the TAC members might be better served to review different aspects of product applications in smaller groups based on individual members' areas of expertise.

Brian Hall stated that the TAC should define "New," "Modification," and "Application Renewal" and discussion occurred to decide if that would be better placed in rule or in the TAC Standards and Guidelines.

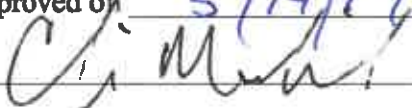
Next meeting:

The next TAC meeting is scheduled for May 14, 2019 at BWC/OCOSH.

Adjourn:

Motion to adjourn was made by Chris Schraff and seconded by Dan Lark. Motion carried, and the meeting was adjourned at 12:35 p.m.

Approved on

5/14/19


as signified by:



Chris Mandich, TAC Chairperson
Dan Lark TAC Vice Chairperson

Rachel Townsend, Secretary

