

VIRGINIA:

At a regular meeting of the King George County Service Authority Board of Directors, held on Tuesday, the 18th day of May, 2021 at 5:30 p.m. in the Revercomb Building Board Room at 10459 Courthouse Drive, King George, Virginia:

PRESENT:

Annie Cupka, Chairman
James Morris, Vice-Chairman
Cathy Binder, Member
Allen R. Parker, Jr., Member
Jonathon Weakley, General Manager
Travis Quesenberry, Interim County Administrator
Matt Britton, County Attorney

REMOTE: Carrie Cleveland, Member

0:00:10.1 Madam Chair: I hereby call to order this meeting of the King George County Service Authority Board of Directors. We will begin with the invocation... I'm sorry, do I need to acknowledge that Ms. Cleveland is participating remotely? Should we go ahead and do that first? We can do it after. Okay, we just haven't had to do it in such a long time. Alright, very good. So immediately following the invocation and the pledge, then we will go ahead and acknowledge members participating in-person and online, thank you. We'll lead with the invocation by Mr. Morris and the Pledge of Allegiance by Mr. Weakley. Please stand as you are able.

0:00:52.4 James Morris: Lord, we ask for your guidance this evening as we discuss the business of the Service Authority. Help us to make decisions that benefit our fellow men and our environment. Amen.

[ALL: Pledge of Allegiance]

0:01:34.2 Madam Chair: Mr. Weakley, do you have a copy of the disclosure?

0:01:40.3 Jonathon Weakley: I will send you electronic. Give me a second.

0:01:42.7 Madam Chair: Sure, yeah, and if you... I'll just read it on the email because I'm having some technical difficulties with my... Thank you, Mr. Britton. Thank you. "Electronic participation is encouraged, and pursuant to the governor's emergency orders, social distancing shall be maintained for all physically present. If you choose to be physically present, you will be screened

by authorized staff for signs and symptoms of illness. Based on the results of that screening, certain physical attendees may be denied entry. The following members are physically present.

0:02:21.7 Allen Parker: Allen Parker, physically present.

0:02:26.4 J. Morris: James Morris, physically present.

0:02:28.3 Cathy Binder: Cathy Binder, physically present.

0:02:30.2 Madam Chair: Annie Cupka, physically present. The following members are participating through electronic and remote means pursuant to the rules previously adopted by this Board and through the governor's budget. Ms. Cleveland, could you acknowledge please, ma'am. Ms. Cleveland, can you hear me?

0:03:00.0 Carrie Cleveland: I can hear you now. Carrie Cleveland participating remotely.

0:03:04.8 Madam Chair: Very good. Thank you, ma'am. I direct the clerk to include this statement and any statement of remotely participating Board members to be memorialized in the minutes. Alright, are there any amendments to the agenda, Mr. Weakley?

0:03:23.4 J. Weakley: No amendments, Madam Chair.

0:03:25.5 AC: Very good. We'll move on to public comment. Comments will be limited to three minutes per person in order to afford everyone an opportunity to speak. Thank you. If comments relate to a specific public hearing item, we ask that you offer those comments at the time of the public hearing. Is there anyone here in the audience who wishes to come forward to offer public comment? Seeing none. Mr. Dines, do we have anyone online who wishes to provide public comment?

0:03:51.3 Chris Dines: No, Madam Chair.

0:03:53.6 Madam Chair: And members, did anyone read any correspondence offered for public comment? Alright, we'll move on to reports of members of the Board. Go ahead, Mr. Parker.

0:04:04.3 A. Parker: No report, ma'am.

0:04:05.8 Madam Chair: Mr. Morris?

0:04:06.7 J. Morris: No report, ma'am.

0:04:07.8 Madam Chair: Ms. Binder?

0:04:08.8 C. Binder: No report.

0:04:10.5 Madam Chair: Ms. Cleveland?

0:04:13.0 C. Cleveland: No report.

0:04:14.3 Madam Chair: Thank you, ma'am. And I just wanna take a moment to thank Mr. Weakley for reaching out to a constituent who had some very technical and detailed questions for me about our water supply, and he was able to answer her questions, my understanding, and also directed her, as well, to Marta Perry from Tri-County/City Soil and Water Conservation District. So thank you very much for that, sir. Alright, consent agenda?

0:04:49.9 J. Morris: I make a motion that we accept the consent agenda.

0:04:54.1 C. Binder: I'll second.

0:04:56.8 Madam Chair: All those in favor say "aye."

0:04:58.9 C. Binder: Aye.

0:05:00.8 J. Morris: Aye.

0:05:00.7 A. Parker: Aye.

0:05:00.8 C. Cleveland: Aye.

0:05:00.7 Madam Chair: Any opposed? Chair votes aye. Motion carries. Report from the county attorney, Mr. Britton?

0:05:07.2 Matt Britton: No report, Madam Chair.

0:05:07.8 Madam Chair: Very good. Thank you, sir. Seeing no presentations and reports, nor action, nor discussion items, we will move on to the general manager's report. Mr. Weakley.

0:05:28.8 J. Weakley: Thank you, Madam Chair. Normally every quarter, the Board had asked to go from monthly to quarterly reports of compliance when it comes to wastewater treatment plants. Being that I'm acting in this role at this time for the Wastewater Department, I had the time to submit data last month so I'm a little bit familiar with it, the normal. So we'll start with Dahlgren Wastewater Treatment Plant. These are the nutrient numbers, however, if there is any performance issues for non-nutrients such as E. Coli and TSS, I will list that out. So year to date on total nitrogen, we are below our annual limit. What I try to strive for is usually half for our target that way we have plenty of buffer, so there's a little buffer there. This is based on 12 months, so this will average out as each month goes on, so we're still below the annual limit for total nitrogen. On total phosphorus, we're just outside of the 0.3 milligrams per liter, we're at a 0.31. We believe that we'll start averaging below that. However, what I have to report is that we have exceeded E. Coli and TSS limits in March. We did receive a notice of violation for non-compliance. The April data that was just submitted by May 10th, we reported no violations. And so far all of the data that we have received through the middle of May, we're on track for full compliance. Fairview Beach total nitrogen, we have an annual limit of 6.5 milligrams per liter, year to date we are at 2.57. Total phosphorus, we have an annual limit of one milligram for liter, we're a year to day of 0.14, so well below even half of those limits. Hopyard Farms were just above the annual limit for total nitrogen. We are trending down. January and February seemed higher. Naturally, you have colder months, but you hope to make that up the rest of the year. So we believe we'll come out ahead on the year, but I am reporting year to date,

we're over by about 0.41. When I say over, we are over year to date, we're not over for annual limit. So there's no exceedance at this time, we just have to be under that number at the end of December. Total phosphorus doing very well there.

Purkins Corner, we're doing fairly well from a nutrient standpoint. We've had multiple month events with what is known as total Kjeldahl nitrogen, it's a component of nitrogen. We had exceedance for March and April, then a E. Coli limit for April. Some of that, we found that we had higher limits in portions of the treatment tank. And we believe we got that under wraps. We've had to add additional pumps for recirculation. We believe the existing mixers that were in those tanks are under size. So yes, we did receive a warning letter for non-compliance. May, so far, again, to the middle of the month, performance is on track to meet permit limits. I see no surprises. I've been up to that facility a couple of times this month already.

Oakland Park, we're doing very well. Oakland Park and Purkins have very high annual limits, so you can see we're well below. And actually those areas, when you hear me ever talk about cutting back chemicals or we wanna boost that up some, we have a wiggle room there, which we can maybe realize some savings in chemicals. But we're doing very well. And the floors I reported on, I wanna say it was back in February or so we put it in, it's performing very well. So we appreciate that improvement that the Board approved and the energy efficiencies we're receiving from it. Just some other information, I just wanna keep you up year to date. So as everyone knows, our budget is built around 50 full-service connections for the year, that's 50 water and sewer residential connections. So this is the breakdown of where we're at year to date. So we've had 73 water and sewer residential connections, 10 water-only residential, so that's like presidential lakes, for example, would qualify for that, and two, water-only commercial.

So again, if we know during budget time... And we do try to reach out to some builders. Obviously, there are some national builders with some local builders for commercial or residential, but if it's known, we'll try to capture that, but there was no known commercial that was in at that time. But we're doing very well in the year. I think the budget report, when it comes out, will show that. I believe everyone received the recent cash flow reports, so when you receive those, please reach out to me if you have any questions or as well Ms. Hahn's office, we'll be happy to have that conversation. But from a connection standpoint, we're doing fairly well.

What is not up here, we have about \$54,000 of CARES funding remaining. We do have a group that'll go in, I think it's around the \$8,600 will be applied this billing cycle, so that number is steadily coming down. They did revise where that money has to be used this year, so we're working as fast we can to get rid of... Not to get rid, to expend those funds and help folks. So please pass the word along. But we identified that through our MuniBilling software, it's not a mass mailing that would go out to everybody because you have to qualify for it. It's a financial hardship. There are intake forms online for residents or commercial customers. If they qualify for that, they can print out those forms, email them back, bring it by our office, and we'll be happy to assist them. Madam Chair, that's all the information I have for you tonight in my GM report. Any questions?

0:11:56.3 Madam Chair: Thank you, sir. Ms. Cleveland, can we start with you, ma'am, since you're online, do you have any questions for Mr. Weakley.

0:12:05.1 C. Cleveland: No questions, ma'am.

0:12:05.2 Madam Chair: Thank you ma'am. Mr. Parker?

0:12:08.8 A. Parker: I guess my only questions are, it seems like we've had several exceedances lately. And I'm kind of a little surprised about Hopyard even having trouble keeping up, 'cause that's

a newer plant. I guess with some of the stuff, especially, Purkins Corner and whatnot with some of these issues, do we think we have them back under wraps for the rest of the year? What was causing them or more specifically or...

0:12:40.6 J. Weakley: So with Dahlgren, we installed some additional aeration. We had issues with the rotors out there, so we budgeted it for that replacement this coming year. We've actually, this past week, went out and I will say, put a short-term fix to get one of the rotors back going, which we saw in December, we haven't had that type of exceedance again, but there are some exceedance. So UVs are the primary when it comes E. Coli. We have three systems that are basically obsolete and they're all the same. So Dahlgren, and Fairview Beach, and Purkins Corner have obsolete. So you need to keep the system running that's there. When I say obsolete, you can buy bulbs for them still. Finding ballasts that are for those particular systems, we are finding that some of the ballasts that were in, particularly, Purkins Corner, were not the correct ones. We did have the correct ones for Dahlgren but we had to do a lot of rewiring and relamping. Apparently, it looked like water had gotten into... And I welcome you all to come out any time, but basically there's a rack that these lights sit in and they're supposed to push and have gasket connections and your wires go through that. It's like a conduit, so any time something fails, you get water in there and that's not good.

So I believe Dahlgren, we're back on track. And there was some blinding of the filter. We got all that polymer cleaned up. That is not a method that I allow. Polymer is very tricky. You should use it for solids handling only. Very limited if you're trying to do it for settling in your process 'cause it can go downstream and blind your filters. So I would say earlier on, March we experienced that, but I believe we're back on track. Nothing for Fairview Beach. Hopyard, we haven't exceeded anything, and so what we're finding there is we had some transducers, so there's some levels involved in how you fill your tank and your sequencing that you do there, so we've made some adjustments. We believe they're good adjustments, so we are a little higher. We haven't exceeded anything, but we believe those adjustments with the transducers and the levels will help.

One of the things we're working with, and it's a free service. You know I like free, especially if it's quality. Aqua-Aerobics designed... It's their treatment design for Hopyard and Fairview Beach. So we can send data, we can get on a call, we can ask those questions like, "Hey, this is what we're seeing. We're not quite figuring this out. Do you have any advice?" What's very odd for Hopyard Farms is that there's four wastewater pump stations that feed the wastewater treatment plant, and all four of those have a very high TKN. 15 to 30 milligrams per liter may be expected, but there are some over there that average between 50 to 70 milligrams per liter. So when we had a process review with Mr. Wyatt from Aqua-Aerobics, he said, "You're meeting numbers, but your loading is almost like you're at capacity." Which is the 0.375 permit we're at now from a TKN loading standpoint. So we're gonna look at things whether we run one SBR right now. There are two. So initially, it was a loading concern of flow plus nutrient to make sure you had enough to keep two tanks active and living. So we may have to look at going to two. We have been working with our SCADA contractor to see there were some things that were running in hand. We believe we can run those in auto now, but they're single basin mode and a dual basin mode. And so, again, with the transducer tweaks, we believe performance has improved, but the loading factor is what we wanna watch and make sure that that number continues to go down, so.

0:16:47.2 A. Parker: Do you know what is spiking the TKN?

0:16:50.3 J. Weakley: We do not. It's odd for a residence. There's no commercial property over there. It doesn't seem like things are sitting in a wet well, long. With the improvements the Board

approved for the remote monitoring stations for pump stations, we can look at run times. So we don't see anything where... Industrial Park, for example, for the open park system, that pumps very intermittently so you would expect that. For the four pump stations there, again, it's domestic waste and they cycle pretty often. We're not seeing any dark, like my laptop color, influent coming in, something leading to that. So we could put a composite sampler in there to see if it's a certain time of the day, but it's very odd from a domestic waste standpoint, and that the pumps stations are cycling more frequently. So we'll just have to keep an eye on it. It's good that we know that loading exists. It may affect future design. Right now, we're able to handle it, but it's good we were able to identify that.

But we do take advantage of that service as well. Purkins Corner, I don't wanna make excuses for it. Some of that is just... It's an older facility. We just repiped for some of the airline today out there, and it's just you have to stay on top of it. The E. Coli... Again, we rebulbed everything out there recently. Those numbers have dropped significantly. There were mixers that failed earlier, I wanna say back in March. We got those back online. We were taking TKN samples and, broadly, other testing samples from the anoxic zone which is at the beginning of the plant, and we were seeing 200 milligrams per liter of TKN. So that loading is very high as well. We hauled a bunch of that solids away to be processed at Dahlgren and we added... We didn't add more mixers, we added some pumps, but they act like recirculation, so it's essentially doing the same. We just wanted to make sure that tank has turnover.

After we got those high numbers and we went out and observed the mixing pattern, it didn't seem as consistent. So we believe that mixing has improved. In May, we have two weeks of data so far where the numbers are not even nowhere close to exceeding the permit limits. In Oakland, we're doing fine. So the two problematic plants have been Dahlgren and Purkins. Dahlgren, again, no compliance issues in April, and the two weeks of data we have for May show that we're on track. Purkins, while we had violation in April, we seem to be on track by the two weeks of data that we have there. For Purkins, I will... When we get to the capital budget talks and planning, I think it's a conversation we'll have to have.

0:20:01.6 A. Parker: No further questions, thank you.

0:20:02.9 J. Weakley: You're welcome.

0:20:03.5 Madam Chair: Thank you, Mr. Parker. Mr. Morris?

0:20:06.4 J. Morris: No questions, but thank you for the explanations to Mr. Parker's questions.

0:20:12.1 Madam Chair: Ms. Binder?

0:20:13.4 C. Binder: I was gonna say the same thing. You answered my question in your detailed answer to Mr. Parker, so thank you.

0:20:19.8 Madam Chair: And I will say the same, likewise. Thank you very much for that. Alright, I believe we are ready to adjourn if there is a motion.

0:20:29.2 J. Morris: I make a motion, we adjourn to June 1st, 2021 at 5:30 PM here in the boardroom.

0:20:36.2 A. Parker: Second.

0:20:38.3 Madam Chair: All those in favor, say aye.

0:20:40.1 C. Binder: Aye.

0:20:40.8 J. Morris: Aye.

0:20:40.9 A. Parker

0:20:41.4 C. Cleveland: Aye.

0:20:41.4 Madam Chair: Chair votes aye. Motion carries. This meeting is hereby adjourned to the next regularly scheduled meeting on June 15th, 20...

0:20:53.3 J. Morris: June 1st.

0:20:54.3 Madam Chair: I'm sorry, June 1st. I'm thinking too far ahead. June 1st, 2021 at 5:30 PM in the Boardroom. That meeting may be held by electronic means and/or remote participation only and may be closed to the public being physically present. All citizens are encouraged to participate in advance or during the meeting by electronic means, as provided by the county. We are adjourned.

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