RWSA BOARD OF DIRECTORS
Minutes of Regular Meeting
December 12, 2023

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> A regular meeting of the Rivanna Water and Sewer Authority (RWSA) Board of Directors was held on Tuesday, December 12, 2023 at 2:15 p.m. virtually via Zoom.

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Board Members Present: Mike Gaffney, Jeff Richardson, Brian Pinkston, Ann Mallek (arrived at 2:35 pm), Gary O'Connell, Lauren Hildebrand.

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Board Members Absent: Sam Sanders

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Rivanna Staff Present: Bill Mawyer, Lonnie Wood, Deborah Anama, Betsy Nemeth, David 14 Tungate, Victoria Fort, Jennifer Whitaker, Jacob Woodson. 15

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Attorney(s) Present: Valerie Long.

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1. CALL TO ORDER

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> Mr. Gaffney called the December 12, 2023, regular meeting of the Rivanna Water and Sewer 21 Authority to order at 2:15 p.m.

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2. AGENDA APPROVAL

- Mr. Pinkston moved that the Board approve the agenda as presented. Mr. Richardson 25
- seconded the motion, which passed unanimously. (5-0). (Mr. Sanders and Ms. Mallek were 26

27 absent.)

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MINUTES OF PREVIOUS BOARD MEETING ON NOVEMBER 14, 2023

Mr. Pinkston moved that the Board approve the meeting minutes. Mr. O'Connell seconded 30

the motion, which passed unanimously (5-0). (Mr. Sanders and Ms. Mallek were absent.) 31

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4. RECOGNITIONS

There were no recognitions. 34

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EXECUTIVE DIRECTOR'S REPORT 5.

Mr. Mawyer stated that it was the fourth year of having all or a few virtual Board meetings. But 37

this would be the last scheduled virtual meeting. 38

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Mr. Pinkston asked if the Board members should state their locations for the purposes of this 40

meeting. 41

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43 Mr. Gaffney stated that would be appropriate.

Mr. Pinkston stated that he was located at 575 Alderman Road, Charlottesville, Virginia.

Mr. O'Connell stated that he was located at 1720 Yorktown Drive, Charlottesville, Virginia.

Mr. Richardson stated that he was located at 401 McIntire Road, Charlottesville, Virginia.

Ms. Hildebrand stated that she was located at 305 4th Street NW, Charlottesville, Virginia.

Mr. Gaffney stated that he was located at 3180 Dundee Road in Earlysville, Virginia.

Ms. Long stated that it would be appropriate to reference the Authority's Remote Participation Program and it being carried out in accordance with the policy adopted by the Authority last year, pursuant to Virginia code authorizing such meetings.

Mr. Mawyer stated that as he had previously stated, there were no more virtual meetings scheduled on their agenda. He stated that under their Strategic Plan's priority of Optimization and Resiliency, he was pleased that the Department of Environmental Quality (DEQ) agreed to modify their wastewater permit, eliminating the need for weekend lab testing. He stated that this change would save approximately \$18,000 per year in salary costs as chemists would not be required to work on Saturdays and Sundays.

Mr. Mawyer stated that they had urban water permits issued by DEQ and the Army Corps which allowed them to mitigate impacts to wetlands and streams during projects such as the Rivanna to Ragged Pipeline project and the original Ragged Mountain Dam Project. He stated that the Army Corps issued a permit to them in 2008 which was valid for 10 years. He stated that the Corps granted an extension in 2018 extending the permit for another five years to 2023. He stated that recently, the Corps approved a ten-year permit extension to 2033.

Mr. Mawyer stated that this extension was intended to cover the Rivanna to Ragged Pipeline project and complete all related work. He stated that the DEQ had issued an original permit in 2008, which was valid for 15 years and expired this year. He stated that they applied for a new permit last year, and the DEQ granted them a continuance while the DEQ completed its review. He stated that they anticipated receiving another 15-year permit. He stated that with these extensions and new permits, they hoped to successfully complete all of the projects included in the community's water supply plan.

Mr. Mawyer stated that the current water supply data provided in his written report had become outdated due to the recent rainfall over the weekend. He stated that he was pleased to say that all reservoirs were now full, with the exception of Ragged Mountain, which was approximately 200 million gallons below capacity. He stated that currently there were 1.2 million gallons stored in Ragged Mountain. He stated that the community consumes about 10 million gallons daily. He stated that the available water in Ragged Mountain would last for roughly 120 days. He stated that this was not an extensive supply, but it was a satisfactory amount. He stated they were pleased to receive the rainfall.

Mr. Mawyer stated that the updated DEQ drought monitoring chart, similar to the one included in the written report, had also been provided. He stated that the precipitation quadrant for our area was adjusted from being in an "emergency" to a "watch" status. He stated that the previous weekend's rainfall had reduced drought conditions in our area.

He stated that over the past 35 months, they had experienced an 18 inch deficit and a 41% shortage in precipitation for calendar year 2023. They were pleased to receive rainfall, but they had not yet exited the drought watch.

Mr. Mawyer stated that regarding water supply, he wanted to thank Ms. Hildebrand and Mr. Pinkston for their efforts with City Council. He stated that last week, they proposed an amendment to the Ragged Mountain Dam Project Agreement which would allow RWSA to add 700 million gallons to Ragged Mountain as soon as possible. He stated that the revised agreement removed some limitations present in the original 2012 agreement, which prohibited adding water until demand reached 85% of the supply. He stated that he was pleased to report that City Council unanimously supported the proposed amendment.

Mr. Mawyer stated that with approval of the Consent Agenda today and approval by the Albemarle County Service Authority Board of Directors on Thursday, the City and ACSA would be authorized to request the addition of 700 million gallons to Ragged Mountain Reservoir. He stated that this would increase the reservoir's capacity by 50%, storing an additional 12 feet of water. He stated that the dam was constructed with this expansion in mind, and to achieve this, they must modify the intake tower and close one weir that controls the normal pool level.

Mr. Mawyer stated that water would flow into the reservoir either from Sugar Hollow when the inflow exceeded 30 million gallons per day or through the new pipeline from South Rivanna to Ragged once it was completed around 2030. He stated that between the two water sources, they would add 700 million gallons, resulting in a 50% increase in the water supply at Ragged Mountain. He stated that this would help secure the community's water supply for many decades into the future based on growth projections from the City, County, and University.

Mr. Mawyer stated that he appreciated the help from Ms. Hildebrand, Mr. Sanders, and Mr. Pinkston in obtaining approval from City Council. He stated that moving forward, they would begin designing grading modifications and intake tower changes. He stated that this process would take approximately one year to design and another year to complete. He stated that in about two years, they expected to start adding water to Ragged Mountain and increase the community's water supply. He stated that this was a significant improvement.

Mr. Gaffney thanked Mr. Pinkston, Ms. Hildebrand, and Mr. Sanders for their contributions. He asked if the City or Service Authority needed to request Rivanna to move forward with the increase.

Mr. Mawyer stated that the amendment to the agreement was on today's Consent Agenda for approval. He also stated that it was scheduled for approval at the Albemarle County Service Authority Board of Directors meeting on Thursday. He stated that following this approval, all

- necessary authorizations would be in place to proceed with the project. He stated that the
- agreement stipulated that either the City or the County could provide Rivanna with a written
- request to proceed with the project. He stated that they anticipated receiving a letter from Ms.
- Hildebrand and Mr. O'Connell, requesting RWSA to commence adding the 700 million gallons
- as soon as possible.

141 Mr. Pinkston asked if they would be voting on it before ACSA.

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Mr. Mawyer stated that he believed it was acceptable.

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Ms. Long confirmed that the three-party agreement had no particular sequence that required its implementation.

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- Mr. Mawyer noted that Ms. Long was the author of the amendment and had collaborated with
- Mr. O'Connell, Ms. Hildebrand, their attorneys and staff to draft and prepare the document that
- effectively conveyed their intended purpose.

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152 Mr. Pinkston asked if there were enough Board members present.

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Mr. Mawyer confirmed that there were five members present, and a quorum required four members.

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- Mr. Mawyer stated that last month they visited Roanoke and toured the Western Virginia Water
- Authority's renewable natural gas facility. He stated that they were collaborating with Ms.
- Hildebrand and the City to explore the possibility of utilizing methane waste gas from
- wastewater as an energy source for the community.

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- Mr. Mawyer stated that this would involve injecting methane into the City's natural gas system,
- similar to what the Western Virginia Water Authority had done in partnership with the Roanoke
- Gas Company. He stated that during their visit, they gained valuable insights into WVWA's
- renewable natural gas system and the challenges they faced while implementing it. He stated that
- the presentation was informative, and they thanked City staff for accompanying them on the trip.

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- Mr. Mawyer stated that they also celebrated "Imagine a Day Without Water 2023", an event for
- school children in the City and County to submit their drawings with the theme of "Tell us how
- your action saves water." He stated that they had received numerous submissions, and the
- winners would be selected tomorrow. He stated that the announcement would follow shortly
- after. He stated that they appreciated the collaboration between the City, ACSA, and their staff
- on this program.

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- Mr. Mawyer stated that in addition to community involvement, some staff members participated
- in the toy lift event, assisting with receiving and distributing toys to families in need during the
- holiday season. He expressed gratitude to Debra Hoyt, Patricia Defibaugh, and Alisa Cooper for
- their contributions to the event held earlier this month.

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6. ITEMS FROM THE PUBLIC

Th	ere were none.
7.	RESPONSES TO PUBLIC COMMENTS
Th	ere were none.
8.	CONSENT AGENDA
	a. Staff Report on Finance
	b. Staff Report on Operations
	c. Staff Report on CIP Projects
	d. Staff Report on Administration and Communications
	e. Staff Report on Wholesale Metering
	f. Staff Report on Drought Monitoring
	g. Approval of Term Contract for Environmental Engineering Consulting Services – ECS
	Mid-Atlantic LLC
	h. Approval of the First Amendment to the Ragged Mountain Dam Project Agreement
9.	OTHER BUSINESS
	a. Presentation and Vote on Acceptance: FY 23 Audit Report
Ma	atthew McLearen stated that he was with Robinson, Farmer, Cox Associates and would be
	senting the audit of financial statements for the fiscal year ending June 30, 2023. He stated
	t he would speak briefly about the audit, the audit results, and point out a few highlights in the
	and audited financial report. He stated that the audit field work was conducted in mid-August,
	I they had a team of four auditors there for a period of about four days testing records and atrols and the timing on the tests that they conducted.
CO	and the thining on the tests that they conducted.
Mı	. McLearen stated that there were several required communications between an auditor and
	se charged with governance, and he would briefly review those. He stated that the
	mmunications were also contained in a two-letter document that was displayed on the screen.
	stated that he would highlight the key points in this document. He stated that the first point
	s related to responsibilities under the audit. He stated that both the auditor and the auditee,
be:	ng the Authority, had responsibilities under the audit process.
Mı	. McLearen stated that the auditee was responsible for providing records sufficient for audit
	poses and maintaining internal controls, complying with agreements and compliance
	uirements. He stated that they must ultimately accept responsibility for the financial report.

He stated that the auditor was required to conduct audit tests, test controls, and perform conclusive tests on the financial statements.

Mr. McLearen stated that this letter also discussed accounting estimates, which were commonly used in audited financial statements. He stated that in this case, the Authority had accounting estimates related to the depreciable lives of long-term assets or capital assets and estimates concerning the measurement of net pension and OPEB liabilities. He stated that the letter further described difficulties encountered during the audit process. He noted that it was disclosed that for the fiscal year ending June 30, 2023, no difficulties were encountered in performing the audit or the audit field work.

Mr. McLearen stated that most audits produced audit adjustments. He stated that these adjustments were a normal part of the audit process, with corrected audit adjustments being included in the financial statements. He stated that uncorrected items were not included in the financial statements. He stated that under professional standards, they were required to disclose in detail any uncorrected misstatements. He reported that there were no uncorrected misstatements. He stated that they had no disagreements in applying any accounting principles.

Mr. McLearen stated that one accounting standard was tested and found not to apply to the Authority this year. He stated that they were also required to disclose, under professional standards, their knowledge that management sought consultation from a second audit firm, which was also known as opinion shopping. He stated that they had no knowledge of management seeking a second opinion. He stated that that concluded the letter to those charged with governance.

Mr. McLearen stated that moving on to the actual bound financial report, he mentioned that on the screen, they would see the independent auditor's report. He stated that this was the first of two reports on the audit firm's letterhead, spanning three pages. He stated they had issued an unmodified or clean opinion on the fiscal year ending June 30, 2023 financial statement. He stated that in this document, there was a wealth of detailed information. He stated that there were three summarized financial statements: Exhibit 1, Exhibit 2, and Exhibit 3.

Mr. McLearen asked the Board to review these briefly. He stated that these amounts pertained to the fiscal year ending on June 30, 2023, starting with the Statement of Net Position. He stated that the Statement of Net Position could be found on pages 30 and 31 of the document. He stated that at June 30, 2023, net position was approximately \$173 million.

Mr. McLearen stated that Exhibit 2, the Statement of Revenues, Expenses, and Changes in Net Position, was similar to a profit and loss statement for a for-profit entity. He stated that it reported the increase or decrease in equity or net position. He stated that the change in net position was the third number from the bottom of the statement. He stated that there had been an increase in net position of approximately \$8.2 million for the fiscal year ending on June 30, 2023.

Mr. McLearen stated that Exhibit 3 was the statement of cash flows. He stated that this reported changes strictly in the cash position. He stated that the ending cash position was \$61 million, as

indicated by the double underline halfway down the page. He stated that it reported a decrease in the cash position of approximately \$14.7 million. He stated that one could see the effects of this decrease on that page. He stated that much of this was reported under the addition to capital assets. He stated that cash was extended for capital asset purposes. He stated that this summarized the three financial statements.

Mr. McLearen stated that the final document he would like to present to the Board was the Independent Auditor's Report on Internal Control over Financial Reporting. He stated that in this report, the auditor described any significant deficiencies or material weaknesses in the financial reporting structure or noncompliance with laws. He stated that they confirmed there were no significant deficiencies or material weaknesses in the Authority's financial reporting structure.

Mr. O'Connell moved the Board to accept the Annual Comprehensive Financial Report for Year Ended June 30, 2023 (FY23). Ms. Hildebrand seconded the motion, which passed unanimously (6-0). (Mr. Sanders was absent.)

b. Presentation: Dam Safety Program Overview

Victoria Fort, P.E., Senior Civil Engineer, stated that she managed the engineering department's dam safety program. She stated that she would provide an annual overview of the dam facilities and the program. She stated the agenda included discussing dam safety regulations, how they had incorporated these regulations into the dam safety program, highlighting features of each dam, outlining the emergency planning procedures, and presenting recent and current dam safety projects.

Ms. Fort stated that in the United States, there were approximately 92,000 dams. She stated that about 65% of the dams were privately owned, while the remaining 35% were owned by state, local, or federal governments, or public utilities. She stated the average age of dams in the United States was 61 years, and over 15,000 were high hazard, which meant they would cause loss of life if they were to fail. She stated that 15% of those were estimated to be deficient. She stated that in Virginia, there were over 3,700 dams in the state. She stated that half of the regulated dams had an unknown hazard classification, meaning they did not understand the consequences if they were to fail.

She stated that in Albemarle County, there were approximately 240 dams, with 167 of them being regulated. She stated that there were 20 high-hazard dams and 118 others with unknown hazard potential classification. She stated that Rivanna operated 10 dams, seven of which were regulated.

Ms. Fort stated that since 2018, there had been 39 reported dam incidents in Virginia, five of which resulted in dam failure. She stated that dam failures can lead to catastrophic consequences, such as flooding, loss of life, and severe economic damage.

She stated that the dam owner was responsible for any damages caused by a failure. She stated that one of these incidents occurred in Ivy at the Clover Dam. She stated that in early June 2018, the dam overtopped due to significant rains, causing severe erosion on the downstream side. She stated that they were currently seeking a consultant and would face substantial repair costs. She

stated that record reservoir levels were observed at the South Rivanna Dam during the same storm in late May to June of 2018. She stated that the South Rivanna Dam was designed for that level of storm, and it did not sustain any significant damage.

Ms. Fort stated that in Virginia, the regulatory body for dam safety was the Virginia Department of Conservation and Recreation (DCR), which ensured proper and safe design, construction, operation, and maintenance of Virginia's dams to protect public safety. She stated that every dam in Virginia was subject to these regulations unless they fell under one of three categories: they were either under a certain size, had a specific height limit, or had a certain volume of water impounded behind the dam. She stated that any dams owned or licensed by the federal government were exempted.

She stated that the South Rivanna Dam was currently licensed by FERC and thus exempt from state regulations. She stated that the last exception included dams operated for mining, agricultural, or canal purposes. She stated that locally, several dams were exempted for agricultural purposes, which meant the state did not have oversight over those facilities.

Ms. Fort stated that the program encompassed various aspects and required significant involvement from staff members to maintain its functionality. She stated that a substantial part of the program involved permitting and regulatory compliance. She stated Emergency Action Plans were maintained, updated, and trained on. She stated that extensive time and effort were dedicated to facility maintenance and vegetation control. She stated that regular repairs and upgrades were conducted to ensure optimal performance.

She stated that public safety and outreach were critical components of the program. She stated that compliance with state and federal regulations was achieved through regular reports, studies, and inspections by various departments, and necessary surveys. She stated that constant monitoring was carried out via SCADA systems or on-site personnel. She stated that the facilities were primarily operated for water supply purposes.

Ms. Fort stated there were four dams classified as high hazard: South Rivanna, Ragged Mountain, Sugar Hollow, and Beaver Creek. She stated they had three low hazard dams: Totier Creek Dam in Scottsville, Lickinghole Creek Dam in Crozet, and the Buck Mountain Property Dam in Free Union. She stated that the last three were unregulated facilities, which included the North Fork Rivanna Low Head Dam, Mechums River Low Head Dam, and Ivy MUC pond dam owned by RSWA.

Ms. Fort stated that the South Fork Rivanna Dam, a FERC-regulated dam, was built in 1965, and a small hydropower facility was added in 1987, which was why it was regulated by FERC. She stated the decommissioning process was ongoing, and hopefully, by next year, they would fall back under state regulations. She stated it was located on the South Fork of the Rivanna River, and it served as the intake for the South Rivanna Water Treatment Plant. She stated the structure was a concrete gravity dam, measuring 700 feet in length and 54 feet in height.

Ms. Fort stated the Ragged Mountain Dam was a state-regulated dam constructed between 2012 and 2014. She stated it replaced historical dams from 1885 and 1908, and it was an earth fill

embankment dam, spanning 785 feet in length and reaching 125 feet in height. She stated that this was the largest earthen dam they managed. She stated that it was designed to accommodate an extra 12 feet of normal pool, providing an additional 700 million gallons of storage. She stated the dam supplied water to the Observatory Water Treatment Plant.

Ms. Fort stated that Sugar Hollow Dam, another state-regulated dam, was built in 1948 and upgraded in 1998 with a rubber crest gate across the dam's crest. She stated that the crest gate was replaced in 2021, and it was expected to have a service life of approximately 20 years. She stated it is a concrete gravity dam, measuring 480 feet in length and 96 feet in height. She stated that a pipe ran from the Sugar Hollow Dam to fill the Ragged Mountain Reservoir.

Ms. Fort stated that the Beaver Creek Dam was a state-regulated structure built in 1963 for water supply and flood control purposes. She stated that it was constructed through a Natural Resources Conservation Service program. She stated the dam was an earth fill embankment dam, measuring 530 feet in length and 60 feet in height. She stated that it served as a County park in Crozet, attracting numerous visitors daily. She stated that a state road, Brown's Gap Turnpike, ran along the crest of the dam. She stated that the spillway was undersized to meet current dam safety regulations. She stated the design of an upgraded spillway was currently underway and was being funded entirely by NRCS, a division of the USDA.

Ms. Fort stated that Totier Creek Dam was an earth fill dam built in 1971, measuring 277 feet long and 35 feet tall. She stated that it also served as a County park in Scottsville. She stated that the Totier Creek Reservoir provided water for the Scottsville water treatment plant. She stated that the Lickinghole Creek Dam was a state-regulated dam located south of the Beaver Creek Reservoir, and it was built in 1995. She stated that it was a concrete gravity dam that did not serve a water supply function but caught sediment to prevent it from entering the South Fork Reservoir drainage basin. She stated that it was 458 feet long and 32 feet tall.

 Ms. Fort stated the Buck Mountain Dam was a small embankment dam constructed in the early 1980s and then acquired a few years later by Rivanna as part of the Buck Mountain property purchase. She stated that it did not have a water supply function. She stated it was an earth fill dam, and it measured 190 feet in length and 33.5 feet in height. She stated that recent studies had revealed that its primary spillway conduit had reached the end of its useful life. She stated the dam would require repair or removal, or other options may be considered in the coming years.

Ms. Fort stated there were three facilities that were unregulated due to their size. She stated the North Rivanna Low Head Dam was a small low head intake that served the North Rivanna Water Treatment Plant. She stated that the plant was scheduled for decommissioning in the next couple of years. She stated that the dam decommissioning was included as part of the project. She stated the Mechums River Low Head Dam was no longer in service and was scheduled for removal. She stated that the Ivy MUC pond dam served a fire safety water storage purpose. She stated that it had recently been lowered to fall below regulatory height thresholds. She stated that minor modifications were planned to accommodate a dry hydrant.

Ms. Fort stated that planning for dam emergencies began with good design and construction, followed by maintenance and prevention. She stated that although they were low probability

events, dam emergencies had high potential impacts; thus, dams were designed with a high level of conservatism to minimize failure risks. She stated some factors contributing to dam emergencies and failures included excessive rainfall beyond a dam's design capacity, which was the most common cause of dam failure. She stated other potential causes were material failure or construction issues, vandalism or terrorism, accidents, or public safety events at the dam site.

Ms. Fort stated that when discussing a dam's hazard potential classification, it referred to the severity of consequences resulting from the dam's failure or misoperation. She stated that this classification did not reflect the dam's condition but rather dictated its design criteria. She stated that a high-hazard potential dam indicated that failure would likely result in loss of life and severe economic damage.

She stated that a significant hazard potential dam suggested possible loss of life and appreciable economic damage upon failure. She stated that a low hazard potential dam implied no expected loss of life or significant economic damage from the dam's failure. She stated that the higher the hazard potential classification, the more stringent the design requirements for the dam, including its ability to withstand larger storms and greater amounts of rainfall.

Ms. Fort stated that the probable maximum precipitation (PMP) referred to the highest possible amount of precipitation that could occur within a specific drainage basin. She stated it represented the most rainfall in a particular area over a given time period. She stated that each drainage basin had its own unique PMP value; for instance, at Sugar Hollow, it was approximately 34 inches of rain within 24 hours, while in the South Fork Rivanna Reservoir, the figure was around 25 inches of rainfall during the same timeframe.

Ms. Fort stated that in Virginia, high-hazard potential dams must be designed to withstand and accommodate at least 90% of the probable maximum flood, which was the flood resulting from PMP precipitation levels. She stated that Rivanna, however, required its high-hazard dams to handle 100% of the PMP. She stated that they had built in an extra level of conservatism to account for potential future changes in regulations and rainfall patterns.

Ms. Fort stated that a two-year storm would produce approximately 3.68 inches of rain over a 24-hour period, while a 100-year storm would yield just over nine inches of rain in 24 hours.

She stated that a PMP was significantly more extreme, with 34 inches of rain in 24 hours. She stated that Hurricane Camille brought over 27 inches of rain overnight to Nelson County in 1969 – equivalent to about 81% of a PMP rainfall event. She stated that similarly in Madison County in 1995, 25 to 30 inches of rain was recorded within 16 hours, which amounted to approximately 86% of a PMP.

Ms. Fort stated that a significant aspect of their dam safety program involves preparing for emergencies at their dams. She stated this included the dam safety program as well as internal development, maintenance, distribution, and training of Emergency Action Plans (EAPs). She stated that public safety and outreach was crucial, as dam safety is a shared responsibility. She stated their ability to communicate hazards to downstream property owners and businesses helps them respond effectively during emergencies. She stated that this included posting signs, sharing alerts, issuing downstream notifications, and engaging in outreach opportunities.

Ms. Fort stated that dam Emergency Action Plans were required for all high-hazard dams in Virginia. She stated these plans outlined pre-planned actions to minimize or alleviate emergency conditions at a dam during an emergency. She stated that they contained procedures and information on issuing early warning notifications, which aimed to minimize or prevent loss of life and property damage during an emergency event. She stated it outlined the necessary coordination between VDEM, the local Emergency Communications Center, local police, fire rescue, VDOT, the media, local government, and others.

Ms. Fort stated that the four high-hazard Emergency Action Plans were updated annually. She stated that the EAP outlined the responsibilities of the Authority and the community during an emergency. She stated that the Authority's duties included verifying and assessing emergency conditions at the dam, notifying participating emergency management agencies, taking available or possible corrective action at the facility, issuing condition status reports, and terminating the emergency once it had ended.

Ms. Fort stated that in turn, external agencies such as the Emergency Communications Center, associated fire rescue police, County, and City governments also had their respective roles to play in managing emergencies. She stated that they were responsible for receiving condition status reports from Rivanna and making notifications to the public. She stated that they coordinate and conduct evacuations from inundation areas if necessary, provide mutual aid, and declare local emergencies, which can bring additional resources to the area.

Ms. Fort stated that EAPs offered descriptions of different emergency scenarios and stages. She stated that by assessing the stage of the emergency, appropriate actions can be taken. She stated the first condition was a non-failure emergency or Stage One, which meant that extreme rainfall had occurred, and facilities were being monitored closely. She stated that Stage Two indicated that a potential failure situation was developing. She stated this may involve continued rainfall, potential risks of the dam overtopping and failing, or accelerating seepage in the dam.

She stated that Stage Three signified that failure was imminent or had occurred. She stated it meant the dam was either actively failing or was expected to fail imminently.

Ms. Fort stated that dam breach inundation maps came with every copy of the EAP and illustrated various failure scenarios and which areas downstream of the dam would be inundated or flooded. She stated the maps also highlighted impacted structures and called out roadways and bridges that would be affected, including the time of arrival of the initial flood wave, peak flood, and expected flood height.

Ms. Fort stated the South Fork Rivanna Dam hydropower facility was currently being decommissioned, and it was expected to be completed next year. She stated they were installing a reservoir-level monitoring station at the Lickinghole Creek Dam, which was the only one of their dams without a level sensor. She stated that they anticipated this installation to be finished in the next couple of months. She stated that the Beaver Creek Dam spillway upgrades were in planning and design, and it was expected to be ready for bidding in approximately 20 months.

Ms. Fort stated that they were working on a dam concrete and steel repair project, which was a long-term maintenance project at several facilities. She stated that she was reviewing public safety plans and signage design at multiple locations. She stated the Buck Mountain Dam would require remediation. She stated that they always had annual maintenance, permitting, and other activities taking place. She stated that monthly tree and brush clearing occurred alongside these activities.

Ms. Fort stated they conducted seasonal or biennial clearing of brush and stream channels to maintain clearance from obstructions. She stated their water and maintenance departments were responsible for ongoing instrumentation, maintenance, and calibration. She stated that in the upcoming year, they planned to hold an EAP tabletop exercise in collaboration with local emergency management agencies, emergency services personnel, fire rescue, and other relevant organizations. She stated the event would involve regulators such as DCR staff, VDEM representatives, and Rivanna personnel. She stated participants would gather in a room to practice responding to a scenario using the EAP actions as guidance, assessing their performance.

Mr. Pinkston asked how they performed inspections at the South Fork Dam on the upstream side. He asked if they performed dive inspections.

Ms. Fort stated that they did not conduct dive inspections at that facility unless they were examining specific features. She stated that in the past, divers had entered to inspect gates on the upstream side. She stated that whenever the dam stopped spilling, as it did during the summer, they typically attempted to survey the monuments across the crest to determine if there had been any movement since the previous assessment. She stated they also obtained detailed photographs of various dam features to identify whether cracks had widened or if new seeps had emerged that were not noticed in prior inspections.

Ms. Fort stated that personnel from FERC conducted a thorough inspection of the facilities annually, assisted by their staff. She stated they examined various aspects of the dam, including its abutments, seepage adjustment, and concrete condition. She stated they assessed the hydropower facility, vegetation management, and other relevant features.

10. OTHER ITEMS FROM BOARD/STAFF NOT ON AGENDA

Mr. Pinkston stated that he had examined the financial report and found it to contain a lot of information. He stated that an interesting aspect was observing the detailed calculations regarding their pension liabilities, which he was glad they were conducting. He stated that he had learned that the City had decided to manage its own retirement, which he found intriguing. He asked if the Board had ever received a presentation regarding its funding position in VRS.

Mr. Mawyer stated that they had not conducted a presentation. He stated that they were part of the VRS system, and according to his understanding, VRS provided a report to the General Assembly periodically detailing their level of funding for the VRS program. He stated there was a substantial number of localities, authorities, and even cities that were members of VRS. He stated he had conducted a Google search to determine who participated in VRS, and the list was

543	quite extensive.
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545	Mr. Mawyer stated that VRS informed them annually about their premium and the percentage
546	increase in their contribution. He stated that Rivanna, along with each employee, contributed to
547	VRS. He stated that the rates for organizations were set each year based on their funding status.
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549	Mr. Richardson stated that he wanted to request that the minutes indicate Ms. Mallek's arrival at
550	the meeting. He stated that Ms. Mallek had just concluded another meeting on behalf of the
551	County and then joined this meeting after attendance had been taken. He stated he wanted to
552	ensure that the record demonstrated her participation in the meeting.
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554	Ms. Mallek stated that she arrived at approximately 2:35 PM.
555	11 OLOGED MEETING
556	11. CLOSED MEETING
557	There was no reason for a closed meeting.
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559	12. ADJOURNMENT
560	At 3:12 p.m., Ms. Mallek moved to adjourn the meeting of the Rivanna Water and Sewer
561	Authority. Mr. Richardson seconded the motion, which passed unanimously (6-0). (Mr.
562	Sanders was absent.)
563	
564	Respectfully submitted,
565	belle to the till
566	JIM Skille
567	Mr. Jeff Richardson
568	Secretary - Treasurer
569	