



Board of Directors Meeting

April 23, 2024

2:15pm

BOARD OF DIRECTORS

Regular Meeting of the Board of Directors of the Rivanna Water & Sewer Authority

DATE: APRIL 23, 2024

LOCATION: Rivanna Administration Building (2nd Floor Conference Room),
695 Moores Creek Lane, Charlottesville, VA 22902

TIME: 2:15 p.m.

AGENDA

1. **CALL TO ORDER**
2. **AGENDA APPROVAL**
3. **MINUTES OF PREVIOUS BOARD MEETING ON MARCH 26, 2024**
4. **RECOGNITION**
 - a. *Resolution of Appreciation for Gary O'Connell*
5. **EXECUTIVE DIRECTOR'S REPORT**
6. **ITEMS FROM THE PUBLIC**

Matters Not Listed for Public Hearing on the Agenda
7. **RESPONSES TO PUBLIC COMMENTS**
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 to Amend Professional Engineering Services Work Authorization – Administration Building Renovation and Addition Project– Short Elliot Hendrickson Inc.*

h. Approval of Construction Contract Award and Amendment to the FY 24 Capital Improvement Plan; Red Hill Water Treatment Plant Upgrades – Anderson Construction, Inc.

i. Approval of Reimbursement Resolution - Rivanna Pump Station Rehabilitation

9. OTHER BUSINESS

*a. Presentation: Succession & Strategic Planning Review
Bill Mawyer, P.E., Executive Director*

*b. Presentation: Wastewater Program Review
David Tungate, Director of Operations and Environmental Services*

10. OTHER ITEMS FROM BOARD/STAFF NOT ON THE AGENDA

11. CLOSED MEETING

12. ADJOURNMENT

GUIDELINES FOR PUBLIC COMMENT AT RIVANNA BOARD OF DIRECTORS MEETINGS

If you wish to address the Rivanna Board of Directors during the time allocated for public comment, please raise your hand or stand when the Chairman asks for public comments.

Members of the public requesting to speak will be recognized during the specific time designated on the meeting agenda for “Items From The Public, Matters Not Listed for Public Hearing on the Agenda.” Each person will be allowed to speak for up to three minutes. When two or more individuals are present from the same group, it is recommended that the group designate a spokesperson to present its comments to the Board and the designated speaker can ask other members of the group to be recognized by raising their hand or standing. Each spokesperson for a group will be allowed to speak for up to five minutes.

During public hearings, the Board will attempt to hear all members of the public who wish to speak on a subject, but it must be recognized that on rare occasion comments may have to be limited because of time constraints. If a previous speaker has articulated your position, it is recommended that you not fully repeat the comments and instead advise the Board of your agreement. The time allocated for speakers at public hearings are the same as for regular Board meetings, although the Board can allow exceptions at its discretion.

Speakers should keep in mind that Board of Directors meetings are formal proceedings and all comments are recorded on tape. For that reason, speakers are requested to speak from the podium and wait to be recognized by the Chairman. In order to give all speakers proper respect and courtesy, the Board requests that speakers follow the following guidelines:

- Wait at your seat until recognized by the Chairman.
- Come forward and state your full name and address and your organizational affiliation if speaking for a group;
- Address your comments to the Board as a whole;
- State your position clearly and succinctly and give facts and data to support your position;
- Summarize your key points and provide the Board with a written statement, or supporting rationale, when possible;
- If you represent a group, you may ask others at the meeting to be recognized by raising their hand or standing;
- Be respectful and civil in all interactions at Board meetings;
- The Board may ask speakers questions or seek clarification, but recognize that Board meetings are not a forum for public debate; Board Members will not recognize comments made from the audience and ask that members of the audience not interrupt the comments of speakers and remain silent while others are speaking so that other members in the audience can hear the speaker;
- The Board will have the opportunity to address public comments after the public comment session has been closed;
- At the request of the Chairman, the Executive Director may address public comments after the session has been closed as well; and
- As appropriate, staff will research questions by the public and respond through a report back to the Board at the next regular meeting of the full Board. It is suggested that citizens who have questions for the Board or staff submit those questions in advance of the meeting to permit the opportunity for some research before the meeting.

The agendas of Board meetings, and supporting materials, are available from the RWSA/RSWA Administration office upon request or can be viewed on the Rivanna website.

Rev. September 7, 2022



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RWSA BOARD OF DIRECTORS
Minutes of Regular Meeting
March 26, 2024

A regular meeting of the Rivanna Water and Sewer Authority (RWSA) Board of Directors was held on Tuesday, January 23, 2024 at 2:15 p.m. at Rivanna Administrative Building, (2nd Floor Conference Room), 695 Moores Creek Lane, Charlottesville, VA 22902.

Board Members Present: Mike Gaffney, Jeff Richardson, Lauren Hildebrand, Gary O’Connell, Ann Mallek, Brian Pinkston, Samuel Sanders

Board Members Absent: none

Rivanna Staff Present: Bill Mawyer, Lonnie Wood, Jennifer Whitaker, David Tungate, Betsy Nemeth, Deborah Anama, Jacob Woodson, Stephanie Deal

Attorney(s) Present: Valerie Long

1. CALL TO ORDER

Mr. Gaffney called the March 26, 2024, regular meeting of the Rivanna Water and Sewer Authority to order at 2:37 p.m.

2. AGENDA APPROVAL

Mr. Mawyer proposed an amended agenda, adding presentation 9b concerning sediment in the Urban drinking water system. He stated that they intended to present this at the end of the meeting, provided the Board was receptive, as this was a recent issue that surfaced last week. He stated that they wished to discuss it with the Board before making any decisions.

Mr. Pinkston moved that the Board approve the agenda as amended. The motion was seconded by Ms. Hildebrand and passed unanimously (7-0).

3. MINUTES OF PREVIOUS BOARD MEETING

a. Minutes of Regular Board Meeting on February 27, 2024

Mr. Mawyer stated that he wanted to propose amendments to two aspects of the minutes. He stated that regarding line 810, Ms. Mallek noted that her remark pertained to the *allocation* rather than the *location*. He stated that upon review of the recording, they found that it was difficult to discern, but she had stated “allocation” and not “location.” He stated that also, they would include in the list of Rivanna staff present at the meeting that Michelle Simpson was also in attendance. He stated that these are the two minor adjustments to the minutes that he proposed for the Board’s consideration.

Ms. Mallek moved that the Board approve the minutes of the February 27, 2024 meeting as amended. The motion was seconded by Mr. O’Connell and passed unanimously (7-0).

47 **4. RECOGNITION**

48 There were no recognitions.

49
50 **5. EXECUTIVE DIRECTOR'S REPORT**

51 Mr. Mawyer stated that during his performance evaluation in June of 2022, the two Boards
52 requested that he create a succession management plan. He stated that he integrated it with their
53 strategic plan for 2023 and presented it to both Boards in January 2023. He stated that
54 subsequently, in July of 2023, the Boards approved four additional positions, including a new
55 Finance Manager to support Mr. Wood in the Finance Division. He stated that it was his pleasure
56 to introduce Stephanie Deal, who had been hired as their new Finance Manager. He mentioned
57 that she had returned to their organization, having previously worked there from 1995 to 2001 as
58 an Accounting Technician. Afterwards, she pursued higher education and graduated from the
59 University of Virginia McIntire School of Commerce. For the past 13 years, she has been
60 employed by Greene County, most recently serving as the elected County Treasurer. He stated
61 that they were thrilled to welcome Ms. Deal back. Ms. Deal mentioned the significant changes
62 that had occurred since her previous employment at Rivanna, all of which were positive. She
63 stated that she was excited to be back.

64
65 Mr. Mawyer stated that they wanted to recognize Seth Marshall, who had recently been
66 promoted to a Relief Operator in the Water Department. He stated that further, they wanted to
67 recognize Bonnie Eveleth and Haider Alsafee for passing their Class 1 Water Operator licenses.
68 He mentioned that Mr. Alsafee had been with them since December 2019, starting as a Class 4
69 Operator and progressing to Class 3 in one year, Class 2 the following year, and now Class 1. He
70 stated that similarly, Ms. Eveleth joined them in November 2022, obtained her Class 2 license
71 last year and her Class 1 this year. He stated that they were proud of their achievements under
72 the guidance of Director of Operations and Environmental Services, David Tungate, Daniel
73 Campbell, Water Manager, and Rob Haacke, Wastewater Manager.

74
75 Mr. Mawyer stated that they put an emphasis on their Operators getting higher licenses and gave
76 their Operators a 7% raise for every license increase, which not only benefited the Operators but
77 also enhanced the Authority's credentials. He stated that on the water side, they were required to
78 have a Class 1 Operator on site 24/7 at the treatment plants; therefore, these licenses are highly
79 valuable to the Authority. He stated that Class 1 was also the highest Virginia license attainable
80 for wastewater Operators, but wastewater regulations required a Class 1 Operator to be "in
81 responsible charge", but not on-site at all times.

82
83 Mr. Mawyer stated that in the past month they had engaged in several communication efforts. He
84 stated that they attended a community meeting with Sugar Hollow residents regarding the
85 deflated bladder issue at the Sugar Hollow Dam. He stated that they met with the White Hall
86 community to discuss safety improvements and installation of audible alarms as a possible
87 solution. He stated that the community was strongly in favor of these alarms; however, they must
88 consider the pros and cons before making a final decision. He stated that they were considering
89 implementing audible alarm systems for their other reservoirs as a future measure.

90
91 Mr. Mawyer stated that they had hosted Jason Burch, Chris White, Stewart Key, and Penny
92 Shifflett from the Charlottesville-Albemarle Airport management staff for a windshield tour of

93 their water facilities, followed by a virtual tour of all their facilities. He stated that this exchange
94 was informative for both parties.

95
96 He stated that they had a productive meeting with Albemarle County Deputy County Executives,
97 Trevor Henry and Ann Wall, as well as Public Information and Fire staff, to discuss emergency
98 communications and ways to improve communication between their organizations and the
99 Emergency Communications Center. He stated that Mr. O'Connell's staff from ACSA also
100 attended that meeting with them.

101
102 Mr. Mawyer stated that during a forest fire near the Piney Mountain tank, their staff went on
103 high alert, demonstrating their readiness to respond to such emergencies. He stated that this
104 occurred on the previous Monday evening, and they had Maintenance, Operations, Engineering,
105 and IT staff planning for potential consequences if the tank at Piney Mountain, located on the
106 west side of Rt. 29 North between the North Rivanna River and Greene, had been impacted. He
107 stated that fortunately they did not encounter a problem but were prepared for it; he appreciated
108 the staff's responsiveness to that situation.

109
110 Mr. Mawyer stated that he would provide an update on the Rivanna Pump Station. He stated that
111 they have been conducting an investigation into the causation of the submergence incident that
112 occurred in January. He stated that the consultant's report is expected within the next few weeks,
113 after which they will engage in discussions with the insurance company regarding its contents.
114 He stated that in the interim, contractors have removed the pumps and motors from the pump
115 station and shipped them to North Carolina for evaluation. He stated that the bypass system is
116 now operating at 55 MGD capacity based on the newly installed pumps. He stated that they
117 appreciated the support and interest shown by the Service Authority staff and Mr. Gaffney, who
118 joined them for a tour of the pump station last week to witness the bypass set-up and the interior
119 of the facility.

120
121 Mr. Pinkston stated that some of his colleagues on City Council had expressed interest in
122 receiving a report or further information regarding the pump station. He stated that they would
123 appreciate an update on what happened and the current status. He stated that they would not grill
124 him but would like to share the information more broadly in the Charlottesville community. He
125 asked if they had made any progress on determining the cause.

126
127 Mr. Mawyer stated no. He stated that they had been gathering information, and they would
128 receive the report once it was sent to them. He stated that after receiving the report, they would
129 proceed to evaluate the content of the report to ensure that all facts were accurate. He stated that
130 he was certain that the insurance company would do the same thing.

131
132 Mr. Pinkston asked if it would likely be several months from now.

133
134 Mr. Mawyer stated that it could be several months until they clearly determine and agree on the
135 causation.

136
137 Mr. Pinkston stated that they would appreciate it if they could meet at that time and discuss it
138 with City Council.

139
140 Mr. Mawyer stated that he presented at the Rivanna River Basin Commission meeting earlier this
141 month, which he had been invited to by Ms. Mallek, the Chairman of the Commission. He stated
142 that the presentation focused on the events surrounding the Rivanna Pump Station and explaining
143 what a bypass is to help attendees better understand the concept. He stated that to encourage
144 competition and improve pricing with contractors, they were planning a Contractor Information
145 Meeting for April 11 at the Doubletree Hotel. He stated that this event would discuss their
146 upcoming four major piping projects: Ragged Mountain to Observatory, Central Water Line,
147 South Rivanna Crossing, and the Rivanna to Ragged Water Line with pump station and reservoir
148 modifications.

149
150 Mr. Mawyer stated that they anticipated bidding the Ragged Mountain to Observatory project,
151 shown as the brown line on the map, and the Central Water Line this summer, with construction
152 expected around December. He stated that the South Rivanna Crossing, which was not shown on
153 the map, would involve installing a second pipe under the South Rivanna River later this year.
154 He stated that then, they planned to address the Rivanna to Ragged Water Line and pump station
155 and reservoir modifications, hopefully to be bid next summer. He stated that their goal was to
156 generate interest among contractors during these discussions, as they had previously experienced
157 success with the water treatment plant renovation projects.

158
159 Mr. Pinkston asked if they had coordinated the work for the Ragged Mountain to Observatory
160 Treatment Plant with the university in terms of roadways. He stated that they had some work
161 going on behind Hereford dorms.

162
163 Mr. Mawyer stated yes. He stated that the pipe would go through the Fontaine Avenue area, near
164 the new biomedical facility, crossing Fontaine Avenue and ascending Observatory Mountain to
165 the treatment plant. He stated that they were collaborating with the UVA Architect to determine
166 the precise location regarding an easement. He stated that they were meticulously navigating this
167 process together.

168
169 Mr. Pinkston asked if they were hoping to do construction this summer.

170
171 Mr. Mawyer stated that work could occur in this area during the summer of 2025.

172
173 Mr. Pinkston asked if there was any RWSA work going on in that area.

174
175 Mr. Mawyer stated no.

176
177 He stated that in 2024 and extending until 2030, there would be 16 miles of piping work
178 underway as part of their community's water supply initiative. He stated that this extensive
179 program aimed to ensure a sufficient water supply for the community, considering the changing
180 climate conditions and uncertainties that affect the community's water supply. He stated that he
181 had presented to the Land Use and Environmental Planning Committee about their water supply
182 projects, showcasing the four piping projects and highlighting the 16 miles of piping work
183 planned over the next few years.

184

185 Mr. Mawyer stated that with their Environmental Stewardship Strategic Plan priority, they
186 collaborated with the City and the ACSA in the “Fix a Leak Week” program last week,
187 promoting water conservation among community members. He stated that additionally, some of
188 their staff had volunteered with the Rivanna Conservation Alliance for the Stream Sampling
189 Program. He stated that they appreciated staff’s participation. He stated that their benefits
190 program encouraged employees to volunteer, offering eight hours per year for such activities. He
191 stated that with this allocation, they could contribute to environmental initiatives like the ones
192 mentioned.

193
194 Ms. Mallek stated that she had a comment for the future list. She stated that she was unsure if
195 there was a reference to daily conservation in the Strategic Plan. She stated that despite the
196 increase of a billion gallons in their supply, it was crucial to address the population boom in the
197 area. She stated that to mitigate future droughts, occurring at least once every ten years, they
198 must encourage residents to adopt a more conservation-minded approach “every day”.

199
200 Mr. Mawyer stated that under the Environmental Stewardship priority, it was clearly implied, if
201 not explicit, that it should be “every day”, but we may need to beef up that message.

202

203 **6. ITEMS FROM THE PUBLIC**

204 Mr. Gaffney asked if there were any members of the public who wished to speak. Seeing none,
205 he asked Ms. Anama if there were any speakers online.

206

207 Dede Smith stated that she wanted to commend Ms. Anama for her minutes, which were very
208 comprehensive. She stated that she very much appreciated that this month that they corrected
209 some of the comments made about her own comments. She stated that upon clarification of that
210 comment about the Sugar Hollow Dam and whether there were any plans to take it down, she
211 would like to add that the dam was 80 years old and would eventually need to be taken down.
212 She stated that this point should be kept in mind, and it should also be kept in mind when
213 discussing the added agenda item concerning sediment and drinking water, as they are usually
214 related to dams.

215

216 Ms. Smith stated that as a last note, she would like to bring attention to a project underway in the
217 City involving Oakwood Cemetery. She stated that there was a consistently wet area at the base
218 of the cemetery that had been exacerbated due to pipe breaks and the construction of Elliott
219 Avenue. She stated that the concern had been raised at a public forum regarding the Central
220 Water Line’s proximity to the issue, and they had all suggested keeping this matter on their
221 radar. She stated that she would like them to also keep on their radar that the City would be
222 conducting utility repairs in that same area. She stated that she simply wanted to ensure everyone
223 was mindful of these circumstances.

224

225 **7. RESPONSES TO PUBLIC COMMENT**

226 Mr. Mawyer stated that he would like to thank Ms. Smith for complimenting the minutes, as he
227 could assure them that they dedicated significant effort to make sure the minutes were coherent
228 and accurate. He stated that the recording served as a reference, but when the transcriber
229 converted the spoken words into text, clarity and meaning could sometimes be lost. He stated
230 that Ms. Anama, himself, and their staff invested considerable time in reviewing the minutes to

231 ensure the statements were comprehensible and that the minutes made sense.

232

233 Mr. Gaffney stated that they did a good job.

234

235 Mr. Mawyer stated that there were no plans to take down the Sugar Hollow Dam. He stated that
236 there may be a discussion regarding the necessity of the bladder in the near or long-term future;
237 however, there were not any discussions about removing the Sugar Hollow Dam.

238

239 **8. CONSENT AGENDA**

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241 *a. Staff Report on Finance*

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243 *b. Staff Report on Operations*

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245 *c. Staff Report on CIP Projects*

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247 *d. Staff Report on Administration and Communications*

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249 *e. Staff Report on Wholesale Metering*

250

251 *f. Staff Report on Drought Monitoring*

252

253 **Ms. Mallek moved that the Board approve the Consent Agenda. The motion was seconded**
254 **by Mr. O’Connell and passed unanimously (7-0).**

255

256 **9. OTHER BUSINESS**

257

258 *a. Presentation and Vote: Introduction of FY 2024 – 2025 Budget and Vote to Consider Approval of*
259 *the Resolution to Adopt the Preliminary Rate Schedule*

260

Lonnie Wood, Director of Finance and Information Technology

261 Lonnie Wood, Director of Finance and Information Technology, introduced the FY 2024 – FY
262 2025 budget. He stated the Strategic Plan had a team working on each of the goals within the
263 plan and it helps guide the budget formulation process. He stated that the four main areas for the
264 year were: fully funding debt service charges based on their five-year CIP, establishing resources
265 to achieve the strategic plan priorities, fully funding operating costs with items lagging behind
266 actual spending, and translating objectives into reasonable charges to the City and ACSA.

267

268 Mr. Wood stated that their budget had increased by \$7.4 million or 15.6%, primarily driven by
269 debt service charges totaling \$4.54 million, with a \$3 million increase in the operating budget.
270 He stated that the rates listed would help fund this increase. He stated that operating rates were
271 per thousand gallons, based on usage rather than a monthly charge.

272

273 Mr. Wood stated that their budget was divided 50-50 between debt service and operating
274 expenses. He stated that out of the \$27.4 million operating budget, the workforce was the largest

275 share. He stated that chemicals and utilities were the next two significant expenses. Those three
276 budget items account for nearly 70% of the overall operating budget. He stated that other items
277 included information technology, maintenance repairs, building and grounds, depreciation,
278 biosolid transportation, lab services, and professional services.

279
280 Mr. Wood stated that the 10-year budget history showed a steady increase in both the operating
281 and debt service budgets. He stated that the yellow line represented both combined. He stated
282 that the rate of increases had escalated in the last two years, heavily influenced by debt service to
283 support the CIP.

284
285 Mr. Wood stated that they allocated charges between the City and ACSA based on actual retail
286 flows, and this year's estimate shows a shift between the two customers. They used the 2023
287 retail flows reported to them by the City and ACSA on a monthly basis. He stated that this
288 allocation affected certain cost allocation agreements and impacted the operating charge. He
289 stated that this year, there was a flow allocation shift from the ACSA to the City Utilities. He
290 stated that in FY 2025, urban water was split 51% ACSA to 49% City. He stated that the
291 allocations for wastewater were 53% ACSA and 47% City, representing a one percentage point
292 change in both cases.

293
294 Mr. Wood stated that this situation rarely occurred for both water and wastewater but it had
295 happened this year. He stated that to illustrate the allocation process in the gray area, the flow
296 was used to apply rates and obtain the estimated charge. He stated that \$44.8 million total budget
297 remained unchanged between the two years; however there was a \$230,000 shift in charges from
298 the ACSA to the City before any other changes were made to the budget. He stated that this was
299 an estimate and served to demonstrate their estimating process; the actual outcome may differ
300 and could potentially shift back next year.

301
302 Mr. Wood stated that the revenue estimate shows a \$7.4 million increase. He stated that customer
303 charges were estimated to increase \$6.3 million. He stated that both the City and the ACSA had
304 significant charge increases. He stated that despite the ACSA increase being \$3.7 million, which
305 was larger than the City's, it constituted a smaller percentage of their total charge. He stated that
306 additionally, interest income had increased by approximately \$1 million due to rising interest
307 rates over the past year.

308
309 Mr. Wood stated that the RSWA would be charged for administrative, finance and IT support,
310 which had been increasing as discussed earlier. He stated that there was a \$50,000 increase in
311 septage acceptance revenue. He stated that other revenues were expected to decrease, primarily
312 due to nutrient credits going down slightly, and they were using \$80,000 less from reserves. He
313 stated that cost drivers for this budget included debt service, which accounted for the largest
314 portion of the \$7.4 million increase at 60%, followed by personnel costs.

315
316 Mr. Wood stated that debt service, personnel costs, utilities and chemicals made up 93% of the
317 total increase in operating expenses, with IT, lab testing, and other expenses, such as insurance
318 and dam maintenance, comprising the remaining percentage. He stated that they would begin by
319 discussing CIP and debt service.

320

321 Mr. Wood stated that the information indicated the source of funds for the CIP. He stated that
322 \$25 million represents current funding for work-in-process, and the second column included cash
323 already earmarked for specific projects or bond proceeds waiting to fund them. He stated that the
324 \$12.8 million represented future cash reserves that he will address in a few slides. He stated that
325 the \$24.9 million consisted of grants and recoveries, primarily for the Beaver Creek Dam and
326 GAC project.

327
328 Mr. Wood stated that there was a betterment portion for the central water line that the City would
329 reimburse for services provided. He stated that this left them with \$308 million in new debt
330 required to fund the CIP. He stated that for rate purposes, they used a figure of \$323 million,
331 assuming \$15 million would be needed for Rivanna Pump Station repairs.

332
333 Mr. Wood stated that two pipeline-related projects, Ragged to Observatory and Rivanna to
334 Ragged, had been discussed extensively by the Board. He stated that Beaver Creek, a regulatory
335 required project, had been on the books for some time; it held the largest grant. He stated that the
336 concrete rehab and Crozet rehab projects were similar in need. He stated that the facilities were
337 built in the early 1980s and were now approximately 40 years old and required significant
338 rehabilitation work.

339
340 Mr. Wood stated that the administrative office building also fell into this category; it was
341 constructed in the 1980s and was not suitable for its current purpose. He stated that the electrical
342 capacity in this building was nearly at its limit. He stated that there was no fire suppression
343 system installed, and additionally, space constraints were becoming an issue. He stated that these
344 six proposed groups of projects accounted for approximately 70% of the total CIP.

345
346 Mr. Wood stated that the existing debt level was \$195 million. He stated that the current annual
347 debt service cost amounted to \$16 million. He stated that \$323 million is the amount of new debt
348 needed, would increase annual debt service costs by \$24 million annual to a total annual cost of
349 \$40 million after completion of the projects in the 5-year CIP. He stated that the total outstanding
350 debt after finishing would be \$518 million.

351
352 Mr. Wood stated that their calculation method involved dividing their target of \$24 million
353 annually by five, establishing a level debt service charge increase over the next five years. He
354 stated that they added \$4.8 million until they reached the target within the five-year period,
355 totaling \$40 million. He stated that this estimation accounted for the necessary funds to issue
356 \$323 million in new debt to achieve their goal. He stated that this represented a 150% increase in
357 their debt service costs.

358
359 Mr. Wood stated that a steady \$4.8 million increase in their debt service charge was represented
360 by the blue line. He stated that the orange line indicated where the actual debt service became
361 active. He stated that usually we issue debt every two to three years according to IRS
362 regulations. He stated that they did not consistently issue new debt every year; instead, they used
363 reserves to make up the difference between charges and payments. He stated that this year, they
364 were accumulating reserves. He stated that this is where they generate the \$12.8 million in
365 reserves to use cash for project costs. He stated that using \$12.8 million in cash upfront would
366 save about \$1 million per year in debt service.

367
368 Mr. Wood stated that a 3% COLA and a 2% merit increase were programmed for personnel
369 costs, totaling a \$425,000 increase. He stated that four new positions were added, amounting to a
370 \$205,000 cost. He stated that all newly created positions in the current year must be fully funded,
371 resulting in a \$163,000 increase. He stated that the related benefit costs of the first three items
372 totaled a \$364,000 increase.

373
374 Mr. Wood stated that the new positions would fall under the communications and outreach
375 (admin division), sustainability and grants (engineering and maintenance), with the deputy
376 executive director overseeing all three divisions. He stated that the wastewater operator position
377 was increased from nine to 10 as part of the four new positions.

378
379 Mr. Wood stated that the Deputy Executive would manage the Finance and Technology
380 Division, as well as the Engineering and Maintenance and Operations and Environmental
381 Divisions. He stated that the Grant and Sustainability Coordinator would be beneficial in
382 acquiring and coordinating external funding sources, such as grants and potential local financing
383 sources. He stated that this position would assist in developing and enhancing policies related to
384 sustainability efforts.

385
386 Mr. Wood stated that the Outreach and Communication Coordinator would focus on effective
387 marketing and public outreach, manage the website, and oversee social media pages. He stated
388 that the Wastewater Operator would join the existing team of nine, addressing the Wastewater
389 side of operations.

390
391 Mr. Wood stated that these salary increases and positions contributed to their workforce
392 development goals, aiming for a turnover rate of less than 10%. He stated that currently, the
393 turnover rate was at 12%. He stated that by offering competitive pay and benefits, they strived to
394 retain employees and attract new ones. He stated that the latest inflation rate was 3.2%, and the
395 market survey indicated a range of 3% to 8% increases with an average of 4.5%. He stated that
396 as a member of the Virginia Government Finance Officers Association, he had observed similar
397 trends in the informal surveys conducted by their colleagues.

398
399 Mr. Wood stated that it had been quite some time since they conducted a compensation study,
400 likely before or during the COVID-19 pandemic. He stated that, in the past, their compensation
401 studies focused on accurate job descriptions and their placement within the pay scale. He stated
402 that they would also interview employees to ensure their roles aligned with their job descriptions
403 and that their pay scales were competitive in the market. The compensation studies were not
404 used to make wholesale changes to employee pay.

405
406 Mr. Wood stated that regarding budget lag effects, utilities and chemicals experienced significant
407 increases between 2022 and 2023. He stated that the fuel charge in three of their largest utility
408 accounts, which made up approximately 80% of all utility costs, increased by 40%. As for
409 chemical costs, he stated that though they had become more efficient in using these chemicals,
410 the bid prices for 2023 resulted in a 60% increase in unit pricing. These cost increases are
411 usually not known or not realized until after the budget process has been completed. This creates
412 a budget lag effect. He stated that they anticipated that utility costs would stabilize in the future.

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458

Mr. O'Connell asked if the chemical costs were stabilizing.

Mr. Wood stated that the bid prices almost came in flat for FY 2024. This year they aimed to alter the process to obtain more comprehensive information in a timely way. He stated that they planned to extend the current prices for an additional three or four months, if possible, with their existing providers, and then bid them in November. He stated that this would provide them with at least four, five, or six months of data from this year, rather than bidding them in May for a June start.

Mr. Wood stated that the next cost driver was laboratory expenses. He stated that they had introduced new and additional testing procedures this year, including PFAS, which had been discussed at the Board level. He stated that there were no official regulatory requirements yet, they were proactively preparing. He stated that the PFAS testing program was already underway.

Mr. Wood stated that pharmaceutical by-product testing, and calcium testing related to hot water tank sediment, were new tests. He stated that tests were not conducted within the lab; instead, they collected samples on-site and sent them to be qualified laboratories for analysis. He stated that the PFAS qualifications were particularly stringent, making it challenging to find suitable laboratories for this task. He stated that this had resulted in a 150% increase in laboratory costs.

Mr. Wood stated that IT systems continued to grow in complexity due to each capital project introducing new networks, security measures, firewalls, and programmable logic controllers (PLCs). He stated that they were still working on unifying their firewall-related software and hardware to adhere to best practices. He stated this also established a more efficient administration of those security related items. A disaster recovery site was also being established at the South Rivanna WTP.

Mr. Wood stated that the new data center served cybersecurity and disaster recovery purposes. He stated that a total of nine PLCs had been introduced in various projects. Third-party support had been increased significantly, primarily for cybersecurity efforts, penetration testing, device management, and patch management. He stated that this was done to maintain the latest protection standards for all devices. He stated that the new asset management, document management, and HR system were being gradually integrated with additional modules.

Mr. Wood then gave a brief example and photo of a PLC (programmable logic controller). He stated that the maintenance crew was responsible for terminating connections in the PLCs and ensuring proper communication with the devices. He stated that once this was done, the IT department took over the SCADA PLC portion of the system, which then communicated back to the central interface viewed by operators. He stated that there were approximately 110 of those throughout the plants. He stated that five years ago, there were about 65-70.

Mr. Wood stated that in summary, these objectives aligned with their strategic plan goals and indicated where he believed the cost drivers applied. He stated that CIP was relevant to all of them. He stated that the financial forecast for the next five years showed that over half of their

459 budget was dedicated to debt services, with 24% allocated to workforce and the remaining 26%
460 to other costs. He stated that the figures had been presented in the five-year CIP last month. He
461 stated that the total capital budget for 2025 was \$79 million, while the current CIP stood at \$371
462 million, and anticipated new debt was \$308 million.

463
464 Mr. Wood stated that in 2029, they must achieve a charging structure for their two customers that
465 meets the needs of the community and operating costs. He stated that the proposed 86% increase
466 for the ACSA over the next five years was primarily driven by a 121% increase in urban water
467 debt service, with 61% attributed to urban wastewater and 70% for all other rates. He stated that
468 debt service was the primary driver of rate increases for both customers.

469
470 Mr. O'Connell stated that incorporating inflation into these five-year estimates results in larger
471 figures. He stated that this trend had been observed. He stated that on the ACSA side, retail rates
472 were anticipated to double at a minimum. He stated that this represented a significant
473 undertaking for which he hoped their customers were prepared.

474
475 Mr. Gaffney stated that 12 years ago, when they approved the community water supply plan, it
476 was a significant undertaking and an essential aspect for their community.

477
478 Mr. Wood stated that perhaps they would be lucky, as there was one significant grant application
479 for \$50 million for the Rivanna to Ragged water line project.

480
481 Mr. Wood stated that this final slide presented the resolution for a public hearing on May 28. He
482 stated that it involved approving the preliminary rate schedule as per the Code of Virginia. He
483 stated that there had been a recent change in rules concerning advertising purposes, so the
484 waiting period must be observed before proceeding. He stated that the public hearing was
485 scheduled for May 28, as indicated by this resolution.

486
487 Mr. Pinkston stated that with the CIP, they had been actively discussing debt service in recent
488 meetings, particularly the last one. He stated that the projects had been set in motion several
489 years ago to improve the water supply, and although it was a heavy financial burden, they needed
490 to do it.

491
492 Mr. Gaffney stated that he believed that their position was stronger compared to other utilities in
493 the region due to recent actions taken in the past. He asked how their rates compared to similar
494 authorities.

495
496 Mr. Mawyer stated that typically, in terms of ACSA and City's retail fees, they fell within the
497 middle of regional charges.

498
499 Ms. Mallek stated that it was indeed challenging to double the cost, but it was due to the rapid
500 increase in material costs. She stated that they could not delay any longer as the expenses had
501 become unaffordable.

502
503 Mr. O'Connell stated that the issue they would see is that it was not just about average utility
504 costs but also what was considered affordable in their community. He stated their community

505 was different from national norms as median income varies significantly within the area. He
506 stated that specific demographics experiencing affordability issues should be considered, such as
507 those with fixed or low incomes or living in unsubsidized apartment complexes.

508

509 Mr. O'Connell stated that to maintain affordability for these residents, they would analyze their
510 first-tier rates and explore alternative methods to cover increasing costs. He stated that their
511 primary goal was to ensure that even as other expenses rose, their services remain accessible to
512 those who need them most.

513

514 Mr. O'Connell stated that over the past decade, they witnessed a steady increase in water supply
515 plan costs. He stated that to mitigate these wholesale price hikes, they established a rate
516 stabilization reserve. He stated that this fund aimed to provide a cushion against sudden increases
517 and keep their rates approximately half of the wholesale rate.

518

519 Mr. O'Connell stated that they were currently conducting financial studies to sustain this balance
520 for at least the next five years. He stated that their challenge lay in distributing these reserves
521 wisely while maintaining an affordable rate for small users, defined as those consuming around
522 3,200 gallons.

523

524 Ms. Mallek stated that it was an important effort, and they were lucky they had options like that.

525

526 Mr. Pinkston asked if Ms. Hildebrand had reviewed these figures.

527

528 Ms. Hildebrand stated that the preparation of all these items was reviewed in detail by a team
529 that met with Mr. Mawyer prior to this meeting.

530

531 **Mr. O'Connell moved that the Board approve the Resolution to adopt the preliminary rate**
532 **schedule including authorization to advertise the preliminary rate schedule for a public**
533 **hearing to be held during the regular meeting of the Board of Directors on May 28, 2024.**
534 **The motion was seconded by Ms. Mallek and passed unanimously (7-0).**

535

536 *b. Presentation and Discussion on Sediment in Drinking Water*

537 *David Tungate, Director of Operations*

538 Mr. Tungate stated that he wanted to discuss the letter sent to the Board of Supervisors regarding
539 the drinking water issue, which had been ongoing for about seven days. He stated that ACSA had
540 received calls from residents in the Glenmore subdivision reporting sediment in their hot water
541 systems. He stated that laboratory analysis identified the substance as calcium phosphate
542 material.

543

544 Mr. Tungate stated that they were coordinating with ACSA, Glenmore Homeowners
545 Association, and the Cornwell Engineering Group to investigate the cause of this issue. He stated
546 that an online survey was sent to all 1000 homes in the Glenmore subdivision to better
547 understand the impact and extent of the problem in early January.

548

549 Mr. Tungate stated that at least one resident in the Farmington area had reported sediment, which
550 was being sent for further analysis to determine if it was the same substance as seen in

551 Glenmore. He stated that RWSA staff, along with ACSA staff, would begin a sampling program
552 in Glenmore and Farmington homes next week (started on 4/8/2024). He stated they were
553 conducting home visits and had established a Work Authorization with Cornwell Engineering
554 Group that devised a plan to investigate the cause of the sediment problem. He stated that one of
555 the tasks involved an in-depth analysis of the water quality in 8-10 homes in Glenmore.
556

557 Mr. Tungate stated that the survey revealed homes with the sediment problem as well as homes
558 without the sediment problem, located adjacent to each other. The goal of the plan is to
559 determine why this was happening since they received the same water supply. He stated that
560 laboratory test simulations were being conducted at Cornwell Engineering Group's laboratory,
561 where they compared different chemicals and dosages in a controlled setting to try to replicate
562 the situation in the water distribution system.
563

564 Mr. Tungate stated that in two to four months, they anticipated receiving the results of the lab
565 experiments. He stated this topic had been a point of discussion among staff at Rivanna and
566 ACSA. He stated that no similar sediment concerns had been reported from Charlottesville,
567 Crozet, Scottsville, or the UVA distribution systems. He stated that they were trying to address
568 why they were seeing these issues in isolated areas.
569

570 Mr. Tungate stated that in terms of the Urban water system, to the north, they had the North
571 Rivanna Water Treatment Plant on the North Rivanna River; the South Rivanna Treatment Plant
572 adjacent to the South Rivanna Reservoir; and the Observatory Treatment Plant on UVA grounds.
573 He stated that all three treatment plants supplied water to the Urban water system. He stated that
574 their current focus was on the eastern portion (Glenmore) and the far western part (Farmington
575 and Ivy) of the Urban water system.
576

577 He stated that with the assistance of the Glenmore HOA a survey was emailed to 1,000 residents
578 in the Glenmore subdivision and received 280 responses. He stated that out of these respondents,
579 79% reported no noticeable sediment issues, while 21% had experienced some sediment issues.
580

581 Mr. Tungate stated that the data was analyzed by the Cornwell Engineering Group. He stated that
582 they requested images of the sediment as part of the survey. He stated that this process led them
583 to develop an intensive in-home sampling program. He stated that initial analysis of online
584 survey data revealed a correlation between homes with over 5,000 square feet, tankless water
585 heaters, and hot water recirculation systems. He stated that some homes with hot water
586 recirculation systems, which are pumps that constantly circulate hot water around the household
587 plumbing to provide instant hot water at distant fixtures.
588

589 Mr. Tungate stated that the data showed a correlation between these three factors. He stated the
590 study would evaluate the corrosion inhibitor product added to drinking water by RWSA. He
591 stated that RWSA changed from a zinc polyphosphate product to a sodium orthophosphate
592 product in 2019-2021, upgrading their corrosion inhibitor technology.
593

594 Mr. Tungate stated that laboratory tests were currently comparing the impact of zinc and sodium
595 orthophosphate corrosion inhibitors. He stated that anecdotally removal of zinc could have
596 caused the sediment problem, and they were investigating the differences. He stated that the

597 current chemical provider had dozens of customers using the same sodium orthophosphate
598 product.

599
600 Mr. Tungate stated that they were examining the reasons behind sediment issues in some
601 locations but not others, as well as considering water age as a factor. He stated that water travels
602 from South Rivanna Water Treatment Plant or at the Observatory Water Treatment Plant to the 5
603 million-gallon Pantops water storage tank and from there to the Glenmore subdivision. He
604 stated that there was an ACSA water storage tank that serves the Glenmore area. Most of the
605 water that enters the Glenmore subdivision passes through this tank. He stated they were
606 investigating whether water age has an impact on the sediment issue.

607
608 Mr. Tungate stated that there had been no reported issues in the City, Crozet, Scottsville, or UVA
609 areas. He stated that the wastewater treatment plant located at the back of the Glenmore
610 subdivision had not reported any sediment issue. He stated that as part of the study, RWSA
611 would remove their existing hot water tank at the Glenmore wastewater treatment plant and
612 inspect it for sediment. He stated that they will replace it with an instant water heater or a
613 tankless water heater to observe if they could replicate this condition at the Glenmore
614 Subdivision Wastewater Treatment Plant.

615
616 Mr. Tungate stated that the objective of the sediment study was to understand the cause of
617 sediment issues affecting less than 1% of their customers before changing the drinking water
618 system for 100% of their customers. He stated they took this matter seriously and empathized
619 with those affected, but they must fully understand why this was happening before making any
620 changes. He stated that uninformed decisions could lead to the wrong changes.

621
622 Mr. O'Connell asked about the safety aspect of drinking minerals.

623
624 Mr. Tungate stated that in December 2023, during a meeting with Glenmore HOA, a resident
625 raised concerns about the safety of the water supply through a letter to Representative Bob
626 Good's office. He stated that the letter requested the VDH get involved. He stated that the issue
627 was not related to the safety of the water.

628
629 Mr. Tungate stated that it was noted that the problem was evident in hot water, not cold water.
630 He stated that despite this, all water quality tests conducted on the distribution system were
631 thorough and comprehensive. He stated that the Water Department files monthly operations
632 reports with the Virginia Department of Health. These reports detail chemical usage, water
633 quality tests, and the amount of water produced.

634
635 Mr. Pinkston asked if it could be associated with the electrodes in tankless water heaters.

636
637 Mr. Tungate stated that was one of the reasons they were going to install a tankless water heater
638 at the Glenmore Wastewater Treatment Plant. He stated that the process had been lengthy,
639 closely involving ACSA. He stated that they were addressing the issue seriously and intended to
640 investigate the situation thoroughly.

641
642 Mr. Gaffney asked if the Central Water Line would help address water age issues.

643
644 Mr. Tungate stated not necessarily, because the water would still travel through the Pantops tank
645 to get to the Glenmore subdivision.

646
647 Mr. Gaffney asked if the three identified traits were seen altogether or separately.

648
649 Mr. Tungate stated that it was the combination of all three factors in Glenmore. He stated that
650 individuals with sediment lived in homes exceeding 5,000 square feet, tankless water heaters, hot
651 water reuse systems.

652
653 Mr. O'Connell stated that what made this situation peculiar was that there could be a single
654 residence fulfilling all the mentioned criteria experiencing the issue on the hot water side, while
655 the neighboring house constructed simultaneously with identical plumbing fixtures did not
656 encounter the same problem.

657
658 Mr. Gaffney stated that it could be the amount of use over time.

659
660 Mr. Tungate stated that in their analysis of water usage in homes, they generally observed a
661 lower amount of water consumption and higher water age. He stated that one question they asked
662 was regarding the number of showers per day, as this typically constituted a significant portion
663 of domestic water use.

664
665 Mr. Tungate stated that typically, individuals reported one to two showers daily; however, given
666 that most households consisted of one to two people, this finding was not surprising. He stated
667 that during their in-home sampling, they aimed to compare houses situated next to each other on
668 the same block by visiting both properties consecutively to identify any differences and observe
669 the distinct factors at play.

670
671 Mr. Gaffney asked whether they were testing homes with and without the problem.

672
673 Mr. Tungate stated yes. He stated that they used a matrix to compile the data.

674
675 ***10. OTHER ITEMS FROM BOARD/STAFF NOT ON AGENDA***

676 There were none.

677
678 ***11. CLOSED MEETING***

679 There was no reason for a closed meeting.

680
681 ***12. ADJOURNMENT***

682 **At 3:40 p.m., Mr. Sanders moved to adjourn the meeting of the Rivanna Water and Sewer**
683 **Authority. The motion was seconded by Mr. O'Connell and passed unanimously (7-0).**



**RIVANNA SOLID WASTE AUTHORITY
RIVANNA WATER & SEWER AUTHORITY
BOARDS OF DIRECTORS**

Resolution of Appreciation for Mr. Gary B. O'Connell

WHEREAS, Mr. O'Connell has served as a member of the Rivanna Water & Sewer Authority Board of Directors since 1995 and as a member of the Rivanna Solid Waste Authority Board of Directors from 1995 until 2010; and

WHEREAS, over that same period Mr. O'Connell has demonstrated leadership in water and sewer, solid waste and recycling services, and has been a valuable member of the Boards of Directors and a resource to the Authorities; and

WHEREAS, Mr. O'Connell's understanding of the water, sewer, solid waste and recycling operations of the Water & Sewer Authority and the Solid Waste Authority has supported a strategic decision-making process that provided benefits to the customers served by the City of Charlottesville and the Albemarle County Service Authority as well as the community as a whole. Through the leadership and skillful support of Mr. O'Connell, major regional initiatives, Agreements and projects were completed for the Authorities during his tenure including:

- The Environmental Memorandum of Understanding of 2005 which allocated the costs of maintaining the closed landfill cells at the Ivy MUC between the City, County and UVA
- The Ragged Mountain Dam Project and Cost Allocation Agreements of 2012; a plan to increase the community's drinking water supply by constructing a larger dam at the Ragged Mountain Reservoir and a connecting raw water pipeline from the South Rivanna Reservoir
- 2014 Wastewater Projects Cost Allocation Upgrades Agreements; a plan to address wet weather flows and future capacity needs of the Urban Wastewater System
- The Observatory Water Treatment Plant, Raw Water Pumping and Piping Upgrade Cost and Capacity Allocation Agreement of 2020; a plan to upgrade and expand the water production capacity of the Observatory Water Treatment Plant from 7.7 to 10 mgd, as well as replace and upgrade the raw water pump stations and pipelines between the Ragged Mountain Reservoir and the Observatory Water Treatment
- The Northern Area Drinking Water Projects Agreement of 2022; a plan for the allocation of costs for construction of four new drinking water infrastructure projects, all planned within the northern area of the County described as follows:
 1. The Airport Road Water Pump Station and Piping Project
 2. The South Rivanna River Crossing Project
 3. The North Rivanna River Crossing Project
 4. The Water Storage Tank Project for the Airport Road Water Pump Station, along with all future capacity and non-capacity water facilities located north of the South Fork Rivanna River
- Major upgrade of Moores Creek AWRRF for nutrient reduction and wet weather capacity
- Major renovations of the South Rivanna and Observatory Water Treatment Plants
- Construction of the "Central Water Line", a major drinking water pipeline to serve the Urban Area
- A Strategic Plan for both Authorities

NOW, THEREFORE, BE IT RESOLVED that the Rivanna Water & Sewer Authority and the Rivanna Solid Waste Authority Boards of Directors recognize, thank, and commend Mr. O'Connell for his distinguished service, efforts, and achievements as a member of the Rivanna Water & Sewer Authority and the Rivanna Solid Waste Authority, and present this Resolution as a token of esteem with best wishes in his future endeavors.

BE IT FURTHER RESOLVED that this Resolution be entered upon both the permanent Minutes of the Rivanna Water & Sewer Authority and the Rivanna Solid Waste Authority.

Michael Gaffney, Chairman
Jim Andrews
Steven Hicks
Lauren Hildebrand
Ann Mallek
Brian Pinkston
Jeff Richardson
Samuel Sanders, Jr.
Lance Stewart



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: EXECUTIVE DIRECTOR'S REPORT

DATE: APRIL 23, 2024

STRATEGIC PLAN PRIORITY: EMPLOYEE DEVELOPMENT

Team Member Promotion

We were pleased to recently promote Bethany Houchens from Water Quality Specialist to Water Resources Coordinator in our Operations & Environmental Services Division.

STRATEGIC PLAN PRIORITY: COMMUNICATION AND COLLABORATION

NW Central Virginia Utility Manager's Meeting

We hosted our 6th annual NW Central Utility Manager's Meeting on April 2nd and welcomed 24 attendees from 10 of our neighboring Utilities. The meeting provided a good opportunity to network and discuss current issues impacting our organizations.



Virginia Water & Waste Authorities Association Annual Meeting



I attended the 2024 annual meeting of the Virginia Water & Waste Authorities Association (VWWAA) in Staunton and was re-elected 1st Vice Chair for the 2024-2026 term. VWWAA's mission is to promote and defend the interests of Virginia's water and waste authorities.

Virginia Municipal Drinking Water Association



I attended the quarterly meeting of the Virginia Municipal Drinking Water Association (VMDWA) on April 16th. The VMDWA is an association that brings together local governments, water authorities, and consulting engineering firms. The organization's mission is to provide safe and affordable drinking water to Virginians. The VMDWA serves as the voice of Virginia's drinking water utilities. I was elected by the membership to serve on the Board of Directors during the April meeting.

STRATEGIC PLAN PRIORITY: COMMUNICATION AND COLLABORATION

Community Outreach

Local elementary and middle school student groups toured the Crozet Water Treatment Plant this month. One group was a sixth-grade geology class from the Charlottesville Waldorf School and another included students from Crozet, working on a water and wastewater project.

We hosted a group tour of the Moores Creek AWRRF for the UVA public health class. Students appreciated the opportunity to learn more about the wastewater treatment process.

Drinking Water Week



During *Drinking Water Week*, May 5 – 11, 2024, we celebrate the dedicated individuals behind our safe drinking water. From engineers to operators to lab technicians and more, these professionals work tirelessly to ensure the quality and safety of our water.

STRATEGIC PLAN PRIORITY: PLANNING AND INFRASTRUCTURE

Contractor Information Meeting



On April 11th we held a Contractor Information Meeting to encourage participation in our competitive construction bidding process. Ten general contractors and a number of subcontractors and suppliers from 4 states (VA, MD, MN, WI) attended. During the meeting we reviewed four major water supply piping projects and one reservoir project to be advertised for construction bids in 2024 and 2025 including:

- **South Fork Rivanna River Crossing** – Approximately 2,860 LF of 24” finished water line, including over 1,200 LF of HDPE piping to be installed via horizontal directional drilling under the South Fork Rivanna River.
Anticipated advertisement for construction bids: July – August 2024

- **Ragged Mountain Reservoir to Observatory Water Treatment Plant Raw Water Line and Pump Station** – Approximately 4 miles of 36” ductile iron raw water line, including two major roadway crossings, and a new raw water pump station (initially 10 MGD, expansion to 26 MGD included in South Fork Rivanna to Ragged Mountain Reservoir Project listed below).
Anticipated advertisement for construction bids: August – October 2024
- **Central Water Line** – Approximately 5 miles of 24 & 30” ductile iron finished water line with 2 railroad crossings from the Observatory WTP to the Long Street Bridget at Pantops.
Anticipated advertisement for construction bids: September – December 2024
- **Intake Tower and Perimeter Clearing, Ragged Mountain Reservoir** - This contract will support the addition of 700 million gallons in reservoir water storage capacity by modifying the water control tower and completing vegetative clearing around the reservoir.
Anticipated advertisement for construction bids: May – July 2025
- **South Fork Rivanna Reservoir to Ragged Mountain Reservoir Pipe, Intake, and Facilities** – Approximately 6.5 miles of 36” ductile iron raw water line, including a railroad crossing, and a new 30 MGD raw water intake and pump station at the South Fork Rivanna Reservoir.
Anticipated advertisement for construction bids: September – December 2025

Rivanna Pump Station Restoration

Bypass Pumping – The 55 mgd bypass pumping system continues to operate off normal utility power. Staff continue to closely monitor and address minor operational issues as they arise.

Insurance - Our Insurance carrier, VRSA, and its representatives have reviewed site condition, historical documents, invoices, as well as the emergency repair construction contracts and initial photo and video documentation. VRSA is awaiting the findings of the final investigation report, expected to be complete in late April/ early May.

Investigations – SEH Engineering completed its independent field investigations and performed a damage assessment inspection on the pump station electrical system. During the past 30 days SEH has conducted follow-up discussions with staff to clarify operational protocols and historical system response. SEH is finalizing the collection system operation and river hydrology analysis as well as its technical investigation findings and the supporting appendices. Draft documents are under review by staff. Final documents are expected in late April/ early May.

Rehabilitation - Hazen Engineering, the original project design engineer, is coordinating removal and inspection of equipment. MEB Contractors assisted with draining of the interior pump station piping followed by the dismantling, cleaning, packaging, and removal of all six permanent pumps and motors. The pumps and motors are currently under factory review in North Carolina. Diagnostics are expected in the next 4 weeks. Staff are working with the influent gate manufacturer to assess rehabilitation and replacement alternatives as well as temporary flow control measures. An internal Technical Advisory Committee, a team comprised of staff, consultants, and contractors, will review existing and potential alternative pumping designs for the station rehabilitation. Once pumping objectives/changes are finalized, staff can proceed with design and replacement efforts. Staff are also evaluating alternatives and purchasing equipment to repair the headworks plug valves associated with this project.

STRATEGIC PLAN PRIORITY: OPTIMIZATION AND RESILENCY

EPA Maximum Contaminant Levels for PFAS

On April 10, EPA announced the first National Primary Drinking Water Regulation for six PFAS compounds. The Authority’s proactive installation of Granular Activated Carbon water filters in 2018 continues to provide significant water quality benefits, as GAC is recognized as a leading technology to remove PFAS compounds from drinking water. We have been monitoring our raw and treated water systems for PFAS since 2014, and except for one instance in 2023 at our North Rivanna WTP, all the samples have shown levels of PFAS below the new compliance levels. We will continue to engage in the national discussion on implementation of the new regulation and assess any impact on our drinking water treatment systems.

Summary of MCLs and MCLGs:

| Chemical | Maximum Contaminant Level Goal (MCLG) | Maximum Contaminant Level (MCL) |
|--------------------------|---------------------------------------|---------------------------------|
| PFOA | 0 | 4 ppt |
| PFOS | 0 | 4 ppt |
| PFHxS | 10 ppt | 10 ppt |
| HFPO-DA (GenX Chemicals) | 10 ppt | 10 ppt |
| PFNA | 10 ppt | 10 ppt |
| Hazard Index | 1 (unitless) | 1 (unitless) |



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: LONNIE WOOD, DIRECTOR OF FINANCE AND INFORMATION
TECHNOLOGY**

REVIEWED: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: FEBRUARY MONTHLY FINANCIAL SUMMARY – FY 2024

DATE: APRIL 23, 2024

Financial Snapshot

The Authority has an overall net deficit of \$883,200 for the first eight months of this fiscal year due to unforeseen Urban Wastewater operations and maintenance expenses primarily for the Rivanna Pump Station restoration. Total revenues are \$1,332,000 over budget estimates, and total expenses are \$2,215,200 over budget. Urban Water flows and operations rate revenue are 1% above budget estimates, and Urban Wastewater flows and operations rate revenue are 6.4% over budget. Revenues and expenses are summarized in the table below:

| | Urban Water | Urban Wastewater | Total Other Rate Centers | Total Authority |
|---------------------|------------------------|-----------------------------|-------------------------------------|----------------------------|
| Operations | | | | |
| Revenues | \$ 6,965,904 | \$ 7,557,557 | \$ 1,903,141 | \$ 16,426,602 |
| Expenses | <u>(7,097,777)</u> | <u>(8,521,435)</u> | <u>(1,874,568)</u> | <u>(17,493,780)</u> |
| Surplus (deficit) | <u>\$ (131,873)</u> | <u>\$ (963,878)</u> | <u>\$ 28,573</u> | <u>\$ (1,067,178)</u> |
| Debt Service | | | | |
| Revenues | \$ 7,421,271 | \$ 6,948,657 | \$ 1,801,622 | \$ 16,171,550 |
| Expenses | <u>(7,352,507)</u> | <u>(6,845,440)</u> | <u>(1,789,670)</u> | <u>(15,987,617)</u> |
| Surplus (deficit) | <u>\$ 68,764</u> | <u>\$ 103,217</u> | <u>\$ 11,952</u> | <u>\$ 183,933</u> |
| Total | | | | |
| Revenues | \$ 14,387,175 | \$ 14,506,214 | \$ 3,704,763 | \$ 32,598,152 |
| Expenses | <u>(14,450,284)</u> | <u>(15,366,875)</u> | <u>(3,664,238)</u> | <u>(33,481,397)</u> |
| Surplus (deficit) | <u>\$ (63,109)</u> | <u>\$ (860,661)</u> | <u>\$ 40,525</u> | <u>\$ (883,245)</u> |

A more detailed financial analysis is in the following monthly report and reviews more closely actual financial performance compared to budgeted estimates. There are comments listed that will reference the applicable line items in the financial statement for each rate center and each support department in the following pages. Please refer to the Budget vs Actual financial statements when reviewing these comments.

Detailed Financials

The Authority's total operating revenues through February are \$687,000 over the prorated annual budget estimates, and operating expenses are over budget by \$1,754,200, resulting in a net operating deficit of \$1,067,200. The following comments explain most of the other budget vs. actual variances.

- A. Annual and Quarterly Transactions - Some revenues and expenses are over the prorated year-to-date budget due to one-time receipts of revenues for the year and quarterly or annual payments of expenses. These transactions appear to have significant impacts on the budget vs. actual monthly comparisons but usually even out as the year progresses. Septage receiving support revenue of \$109,440 is billed to the County annually in July. Annual payments are made in the first quarter for certain maintenance agreements and for employer contributions to employees' health savings accounts. The annual payment to UVA for the Observatory lease was made in September (\$175,000). Insurance premiums are paid at the beginning of each quarter.
- B. Personnel Costs (Urban Water, Urban Wastewater, Maintenance – pages 2, 5, 9) – Urban Water and Urban Wastewater salaries are higher than budgeted due to pay increases for plant operators who achieved higher licenses. The Maintenance department has exceeded the annual budget for overtime and holiday pay due to emergency maintenance needs at the Rivanna Pump Station.
- C. Other Services & Charges (Urban Water, Crozet Water, Scottsville Water, Urban Wastewater – pages 2 to 5) – Utility costs are running higher than originally estimated for Urban Wastewater and all Water departments. Urban Water incurred \$43,600 in unbudgeted watershed management expenses, and Scottsville Water's laboratory analysis fees are running high to complete PFAS and pharmaceutical testing. Urban Water, Crozet Water, and Urban Wastewater paid unbudgeted annual DEQ permit application fees of \$25,000, \$15,000, and \$10,650, respectively.
- D. Equipment Purchases (Urban Water – page 2) Urban Water incurred \$11,900 unbudgeted equipment rental costs for the temporary pump at Kohls during the waterline break on Rt. 29.
- E. Communications (Administration – page 8) – Telephone and data service costs for the Administration department are over the annual budget.
- F. Professional Services (Urban Wastewater, Administration – pages 5, 8) - Urban Wastewater has spent \$22,000 more than the annual budget on engineering and technical services costs related to a wastewater BOD sampling study. The Administration department is over the prorated budget but is not over the annual budget in this category.
- G. Operations & Maintenance (Urban Wastewater – page 5) – Urban Wastewater has incurred unbudgeted emergency pipelines and appurtenances costs for the Rivanna Pump Station totaling \$1,528,200 through February.

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024
 Fiscal Year 2024

| <i>Budget</i> | <i>Budget</i> | <i>Actual</i> | <i>Budget</i> | <i>Variance</i> |
|----------------|---------------------|---------------------|-------------------|-------------------|
| <i>FY 2024</i> | <i>Year-to-Date</i> | <i>Year-to-Date</i> | <i>vs. Actual</i> | <i>Percentage</i> |

Consolidated
Revenues and Expenses Summary

Operating Budget vs. Actual

Notes

Revenues

| | | | | | | | | | |
|--|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|----------------|--------------|
| Operations Rate Revenue | \$ | 22,727,003 | \$ | 15,151,335 | \$ | 15,646,711 | \$ | 495,375 | 3.27% |
| Lease Revenue | | 124,000 | | 82,667 | | 93,376 | | 10,710 | 12.96% |
| Admin., Maint. & Engineering Revenue | | 781,000 | | 520,667 | | 531,407 | | 10,740 | 2.06% |
| Other Revenues | | 647,267 | | 431,511 | | 472,372 | | 40,860 | 9.47% |
| Use of Reserves (Water Resources Fund) | | 80,000 | | 53,333 | | 80,000 | | 26,667 | 50.00% |
| Interest Allocation | | 47,250 | | 31,500 | | 134,144 | | 102,644 | 325.85% |
| Total Operating Revenues | \$ | 24,406,520 | \$ | 16,271,013 | \$ | 16,958,009 | \$ | 686,996 | 4.22% |

Expenses

| | | | | | | | | | | |
|------------------------------------|-------------|-----------|-------------------|-----------|-------------------|-----------|--------------------|-----------|--------------------|----------------|
| Personnel Cost | B | \$ | 11,625,091 | \$ | 7,750,061 | \$ | 7,645,330 | \$ | 104,731 | 1.35% |
| Professional Services | F | | 467,850 | | 311,900 | | 263,610 | | 48,290 | 15.48% |
| Other Services & Charges | C | | 3,479,955 | | 2,319,970 | | 2,859,452 | | (539,482) | -23.25% |
| Communications | E | | 221,440 | | 147,627 | | 180,374 | | (32,748) | -22.18% |
| Information Technology | | | 1,269,575 | | 846,383 | | 653,657 | | 192,726 | 22.77% |
| Supplies | | | 46,300 | | 30,867 | | 34,276 | | (3,409) | -11.04% |
| Operations & Maintenance | A, G | | 6,035,808 | | 4,023,872 | | 5,578,796 | | (1,554,924) | -38.64% |
| Equipment Purchases | D | | 345,500 | | 230,333 | | 199,693 | | 30,641 | 13.30% |
| Depreciation | | | 915,000 | | 610,000 | | 610,000 | | - | 0.00% |
| Total Operating Expenses | | \$ | 24,406,519 | \$ | 16,271,013 | \$ | 18,025,188 | \$ | (1,754,175) | -10.78% |
| Operating Surplus/(Deficit) | | \$ | 1 | \$ | 0 | \$ | (1,067,179) | | | |

Debt Service Budget vs. Actual

Revenues

| | | | | | | | | | |
|------------------------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|----------------|--------------|
| Debt Service Rate Revenue | \$ | 22,119,060 | \$ | 14,746,040 | \$ | 14,746,048 | \$ | 8 | 0.00% |
| Septage Receiving Support - County | | 109,440 | | 72,960 | | 109,440 | | 36,480 | 50.00% |
| Buck Mountain Lease Revenue | | 1,600 | | 1,067 | | 10,301 | | 9,234 | 865.68% |
| Trust Fund Interest | | 179,830 | | 119,887 | | 258,108 | | 138,222 | 115.29% |
| Reserve Fund Interest | | 879,900 | | 586,600 | | 1,047,653 | | 461,053 | 78.60% |
| Total Debt Service Revenues | \$ | 23,289,830 | \$ | 15,526,553 | \$ | 16,171,550 | \$ | 644,997 | 4.15% |

Debt Service Costs

| | | | | | | | | | |
|---------------------------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|------------------|---------------|
| Total Principal & Interest | \$ | 16,168,944 | \$ | 10,779,296 | \$ | 10,779,296 | \$ | - | 0.00% |
| Reserve Additions-Interest | | 879,900 | | 586,600 | | 1,047,653 | | (461,053) | -78.60% |
| Debt Service Ratio Charge | | 725,000 | | 483,333 | | 483,333 | | - | 0.00% |
| Reserve Additions-CIP Growth | | 5,516,000 | | 3,677,333 | | 3,677,333 | | - | 0.00% |
| Total Debt Service Costs | \$ | 23,289,844 | \$ | 15,526,563 | \$ | 15,987,616 | \$ | (461,053) | -2.97% |
| Debt Service Surplus/(Deficit) | \$ | (14) | \$ | (9) | \$ | 183,934 | | | |

| Summary | | | | | | | | | |
|--------------------------|-----------|-------------|-----------|------------|-----------|------------------|----|-------------|--------|
| Total Revenues | \$ | 47,696,350 | \$ | 31,797,567 | \$ | 33,129,559 | \$ | 1,331,993 | 4.19% |
| Total Expenses | | 47,696,363 | | 31,797,576 | | 34,012,804 | | (2,215,228) | -6.97% |
| Surplus/(Deficit) | \$ | (13) | \$ | (9) | \$ | (883,245) | | | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Urban Water Rate Center
 Revenues and Expenses Summary

| Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------|------------------------|------------------------|----------------------|------------------------|
|-------------------|------------------------|------------------------|----------------------|------------------------|

Operating Budget vs. Actual

| | Notes | | | | | |
|--|-------|----------------------|---------------------|---------------------|---------------------|----------------|
| Revenues | | | | | | |
| Operations Rate Revenue | | \$ 10,021,362 | \$ 6,680,908 | \$ 6,757,144 | \$ 76,236 | 1.14% |
| Lease Revenue | | 94,000 | 62,667 | 71,480 | 8,814 | 14.06% |
| Miscellaneous | | - | - | - | - | |
| Use of Reserves (Water Resources Fund) | | 80,000 | 53,333 | 80,000 | 26,667 | 50.00% |
| Interest Allocation | | 34,200 | 22,800 | 57,279 | 34,479 | 151.23% |
| Total Operating Revenues | | \$ 10,229,562 | \$ 6,819,708 | \$ 6,965,904 | \$ 146,196 | 2.14% |
| Expenses | | | | | | |
| Personnel Cost | B | \$ 2,384,332 | \$ 1,589,555 | \$ 1,639,544 | \$ (49,989) | -3.14% |
| Professional Services | | 178,500 | 119,000 | 77,998 | 41,002 | 34.46% |
| Other Services & Charges | C | 769,233 | 512,822 | 863,236 | (350,414) | -68.33% |
| Communications | | 103,200 | 68,800 | 61,997 | 6,803 | 9.89% |
| Information Technology | | 127,650 | 85,100 | 55,540 | 29,560 | 34.74% |
| Supplies | | 7,000 | 4,667 | 11,320 | (6,653) | -142.57% |
| Operations & Maintenance | A | 2,905,068 | 1,936,712 | 2,067,244 | (130,532) | -6.74% |
| Equipment Purchases | D | 20,100 | 13,400 | 25,340 | (11,940) | -89.11% |
| Depreciation | | 300,000 | 200,000 | 200,000 | - | 0.00% |
| Subtotal Before Allocations | | \$ 6,795,083 | \$ 4,530,055 | \$ 5,002,219 | \$ (472,163) | -10.42% |
| Allocation of Support Departments | | 3,434,478 | 2,289,652 | 2,095,558 | 194,094 | 8.48% |
| Total Operating Expenses | | \$ 10,229,561 | \$ 6,819,708 | \$ 7,097,777 | \$ (278,069) | -4.08% |
| Operating Surplus/(Deficit) | | \$ 1 | \$ 0 | \$ (131,873) | | |

Debt Service Budget vs. Actual

| | | | | | | |
|---------------------------------------|--|----------------------|---------------------|---------------------|---------------------|---------------|
| Revenues | | | | | | |
| Debt Service Rate Revenue | | \$ 10,193,779 | \$ 6,795,853 | \$ 6,795,856 | \$ 3 | 0.00% |
| Trust Fund Interest | | 77,500 | 51,667 | 111,193 | 59,526 | 115.21% |
| Reserve Fund Interest | | 423,100 | 282,067 | 503,921 | 221,855 | 78.65% |
| Lease Revenue | | 1,600 | 1,067 | 10,301 | 9,234 | 865.68% |
| Total Debt Service Revenues | | \$ 10,695,979 | \$ 7,130,653 | \$ 7,421,271 | \$ 290,618 | 4.08% |
| Debt Service Costs | | | | | | |
| Total Principal & Interest | | \$ 6,964,779 | \$ 4,643,186 | \$ 4,643,186 | \$ - | 0.00% |
| Reserve Additions-Interest | | 423,100 | 282,067 | 503,921 | (221,855) | -78.65% |
| Debt Service Ratio Charge | | 400,000 | 266,667 | 266,667 | - | 0.00% |
| Est. New Debt Service - CIP Growth | | 2,908,100 | 1,938,733 | 1,938,733 | - | 0.00% |
| Total Debt Service Costs | | \$ 10,695,979 | \$ 7,130,653 | \$ 7,352,507 | \$ (221,855) | -3.11% |
| Debt Service Surplus/(Deficit) | | \$ - | \$ - | \$ 68,764 | | |

| Rate Center Summary | | | | | | |
|---------------------------------|--|---------------|---------------|--------------------|------------|--------|
| Total Revenues | | \$ 20,925,541 | \$ 13,950,361 | \$ 14,387,175 | \$ 436,814 | 3.13% |
| Total Expenses | | 20,925,540 | 13,950,360 | 14,450,284 | (499,924) | -3.58% |
| Surplus/(Deficit) | | \$ 1 | \$ 0 | \$ (63,109) | | |
| Costs per 1000 Gallons | | \$ 3.01 | | \$ 3.10 | | |
| Operating and DS | | \$ 6.16 | | \$ 6.31 | | |
| Thousand Gallons Treated | | 3,397,700 | 2,265,133 | 2,291,334 | 26,201 | 1.16% |
| or | | | | | | |
| Flow (MGD) | | 9.309 | | 9.391 | | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Crozet Water Rate Center
 Revenues and Expenses Summary

| <i>Budget FY 2024</i> | <i>Budget Year-to-Date</i> | <i>Actual Year-to-Date</i> | <i>Budget vs. Actual</i> | <i>Variance Percentage</i> |
|---------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|
|---------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|

Operating Budget vs. Actual

Notes

Revenues

| | | | | | |
|---------------------------------|---------------------|-------------------|-------------------|-----------------|--------------|
| Operations Rate Revenue | \$ 1,234,752 | \$ 823,168 | \$ 823,168 | \$ - | 0.00% |
| Lease Revenues | 30,000 | 20,000 | 21,896 | 1,896 | 9.48% |
| Interest Allocation | 4,600 | 3,067 | 7,646 | 4,580 | 149.33% |
| Total Operating Revenues | \$ 1,269,352 | \$ 846,235 | \$ 852,710 | \$ 6,475 | 0.77% |

Expenses

| | | | | | |
|------------------------------------|---------------------|-------------------|-------------------|-------------------|---------------|
| Personnel Cost | \$ 341,691 | \$ 227,794 | \$ 229,816 | \$ (2,022) | -0.89% |
| Professional Services | 22,900 | 15,267 | - | 15,267 | 100.00% |
| Other Services & Charges | C 133,426 | 88,951 | 122,832 | (33,881) | -38.09% |
| Communications | 17,600 | 11,733 | 11,018 | 715 | 6.09% |
| Information Technology | 32,400 | 21,600 | 9,873 | 11,727 | 54.29% |
| Supplies | 1,500 | 1,000 | 927 | 73 | 7.32% |
| Operations & Maintenance | 335,700 | 223,800 | 221,084 | 2,716 | 1.21% |
| Equipment Purchases | 3,200 | 2,133 | 2,863 | (730) | -34.21% |
| Depreciation | 60,000 | 40,000 | 40,000 | - | 0.00% |
| Subtotal Before Allocations | \$ 948,417 | \$ 632,278 | \$ 638,413 | \$ (6,136) | -0.97% |
| Allocation of Support Departments | 320,940 | 213,960 | 196,319 | 17,641 | 8.24% |
| Total Operating Expenses | \$ 1,269,357 | \$ 846,238 | \$ 834,732 | \$ 11,505 | 1.36% |
| Operating Surplus/(Deficit) | \$ (5) | \$ (3) | \$ 17,978 | | |

Debt Service Budget vs. Actual

Revenues

| | | | | | |
|------------------------------------|---------------------|---------------------|---------------------|------------------|--------------|
| Debt Service Rate Revenue | \$ 2,385,720 | \$ 1,590,480 | \$ 1,590,480 | \$ - | 0.00% |
| Trust Fund Interest | 13,500 | 9,000 | 19,436 | 10,436 | 115.95% |
| Reserve Fund Interest | 34,500 | 23,000 | 40,858 | 17,858 | 77.65% |
| Total Debt Service Revenues | \$ 2,433,720 | \$ 1,622,480 | \$ 1,650,774 | \$ 28,294 | 1.74% |

Debt Service Costs

| | | | | | |
|---------------------------------------|---------------------|---------------------|---------------------|--------------------|---------------|
| Total Principal & Interest | \$ 1,216,725 | \$ 811,150 | \$ 811,150 | \$ - | 0.00% |
| Reserve Additions-Interest | 34,500 | 23,000 | 40,858 | (17,858) | -77.65% |
| Estimated New Principal & Interest | 1,182,500 | 788,333 | 788,333 | - | 0.00% |
| Total Debt Service Costs | \$ 2,433,725 | \$ 1,622,483 | \$ 1,640,342 | \$ (17,858) | -1.10% |
| Debt Service Surplus/(Deficit) | \$ (5) | \$ (3) | \$ 10,432 | | |

Rate Center Summary

| | | | | | |
|---------------------------------|----------------|---------------|------------------|-----------|--------|
| Total Revenues | \$ 3,703,072 | \$ 2,468,715 | \$ 2,503,484 | \$ 34,769 | 1.41% |
| Total Expenses | 3,703,082 | 2,468,721 | 2,475,074 | (6,353) | -0.26% |
| Surplus/(Deficit) | \$ (10) | \$ (7) | \$ 28,410 | | |
| Costs per 1000 Gallons | \$ 6.26 | | \$ 5.45 | | |
| Operating and DS | \$ 18.27 | | \$ 16.15 | | |
| Thousand Gallons Treated | 202,697 | 135,131 | 153,263 | 18,132 | 13.42% |
| Flow (MGD) | 0.555 | | 0.628 | | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Scottsville Water Rate Center
 Revenues and Expenses Summary

| Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------|------------------------|------------------------|----------------------|------------------------|
|-------------------|------------------------|------------------------|----------------------|------------------------|

Operating Budget vs. Actual

Notes

Revenues

| | | | | | |
|---------------------------------|-------------------|-------------------|-------------------|-----------------|--------------|
| Operations Rate Revenue | \$ 656,460 | \$ 437,640 | \$ 437,640 | \$ - | 0.00% |
| Interest Allocation | 2,150 | 1,433 | 3,622 | 2,189 | 152.69% |
| Total Operating Revenues | \$ 658,610 | \$ 439,073 | \$ 441,262 | \$ 2,189 | 0.50% |

Expenses

| | | | | | |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|---------------|
| Personnel Cost | \$ 223,641 | \$ 149,094 | \$ 152,602 | \$ (3,507) | -2.35% |
| Professional Services | 5,000 | 3,333 | 3,407 | (73) | -2.20% |
| Other Services & Charges | 31,800 | 21,200 | 35,549 | (14,349) | -67.69% |
| Communications | 6,750 | 4,500 | 10,331 | (5,831) | -129.58% |
| Information Technology | 19,700 | 13,133 | 4,600 | 8,533 | 64.97% |
| Supplies | 100 | 67 | 572 | (505) | -758.23% |
| Operations & Maintenance | 134,800 | 89,867 | 82,744 | 7,123 | 7.93% |
| Equipment Purchases | 2,000 | 1,333 | 2,106 | (772) | -57.92% |
| Depreciation | 40,000 | 26,667 | 26,667 | 0 | 0.00% |
| Subtotal Before Allocations | \$ 463,791 | \$ 309,194 | \$ 318,577 | \$ (9,383) | -3.03% |
| Allocation of Support Departments | 194,815 | 129,877 | 120,103 | 9,773 | 7.53% |
| Total Operating Expenses | \$ 658,606 | \$ 439,071 | \$ 438,680 | \$ 391 | 0.09% |
| Operating Surplus/(Deficit) | \$ 4 | \$ 3 | \$ 2,582 | | |

Debt Service Budget vs. Actual

Revenues

| | | | | | |
|------------------------------------|-------------------|-------------------|-------------------|-----------------|--------------|
| Debt Service Rate Revenue | \$ 158,736 | \$ 105,824 | \$ 105,824 | \$ - | 0.00% |
| Trust Fund Interest | 1,650 | 1,100 | 2,375 | 1,275 | 115.87% |
| Reserve Fund Interest | 10,300 | 6,867 | 12,572 | 5,705 | 83.08% |
| Total Debt Service Revenues | \$ 170,686 | \$ 113,791 | \$ 120,770 | \$ 6,980 | 6.13% |

Debt Service Costs

| | | | | | |
|---------------------------------------|-------------------|-------------------|-------------------|-------------------|---------------|
| Total Principal & Interest | \$ 148,991 | \$ 99,327 | \$ 99,327 | \$ - | 0.00% |
| Reserve Additions-Interest | 10,300 | 6,867 | 12,572 | (5,705) | -83.08% |
| Estimated New Principal & Interest | 11,400 | 7,600 | 7,600 | - | 0.00% |
| Total Debt Service Costs | \$ 170,691 | \$ 113,794 | \$ 119,499 | \$ (5,705) | -5.01% |
| Debt Service Surplus/(Deficit) | \$ (5) | \$ (3) | \$ 1,271 | | |

Rate Center Summary

| | | | | | |
|---------------------------------|---------------|---------------|-----------------|----------|--------|
| Total Revenues | \$ 829,296 | \$ 552,864 | \$ 562,032 | \$ 9,168 | 1.66% |
| Total Expenses | 829,297 | 552,865 | 558,179 | (5,315) | -0.96% |
| Surplus/(Deficit) | \$ (1) | \$ (1) | \$ 3,853 | | |
| Costs per 1000 Gallons | \$ 38.22 | | \$ 36.13 | | |
| Operating and DS | \$ 48.13 | | \$ 45.97 | | |
| Thousand Gallons Treated | 17,230 | 11,487 | 12,142 | 655 | 5.71% |
| or | | | | | |
| Flow (MGD) | 0.047 | | 0.050 | | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Urban Wastewater Rate Center
Revenues and Expenses Summary

| Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------|------------------------|------------------------|----------------------|------------------------|
|-------------------|------------------------|------------------------|----------------------|------------------------|

Operating Budget vs. Actual

Notes

Revenues

| | | | | | |
|---------------------------------|----------------------|---------------------|---------------------|-------------------|--------------|
| Operations Rate Revenue | \$ 9,908,321 | \$ 6,605,547 | \$ 7,024,687 | \$ 419,139 | 6.35% |
| Stone Robinson WWTP | 17,267 | 11,511 | 10,554 | (957) | -8.32% |
| Septage Acceptance | 550,000 | 366,667 | 407,542 | 40,876 | 11.15% |
| Nutrient Credits | 80,000 | 53,333 | 49,915 | (3,418) | -6.41% |
| Miscellaneous Revenue | - | - | 4,360 | 4,360 | |
| Interest Allocation | 3,300 | 2,200 | 60,499 | 58,299 | 2649.94% |
| Total Operating Revenues | \$ 10,558,888 | \$ 7,039,259 | \$ 7,557,557 | \$ 518,298 | 7.36% |

Expenses

| | | | | | |
|------------------------------------|-----------------------|---------------------|---------------------|-----------------------|----------------|
| Personnel Cost | B \$ 1,458,300 | \$ 972,200 | \$ 999,700 | \$ (27,499) | -2.83% |
| Professional Services | F 40,000 | 26,667 | 54,560 | (27,894) | -104.60% |
| Other Services & Charges | C 2,271,556 | 1,514,371 | 1,669,448 | (155,077) | -10.24% |
| Communications | 11,600 | 7,733 | 10,638 | (2,905) | -37.56% |
| Information Technology | 110,600 | 73,733 | 42,360 | 31,373 | 42.55% |
| Supplies | 1,200 | 800 | 2,085 | (1,285) | -160.64% |
| Operations & Maintenance | G 2,086,800 | 1,391,200 | 2,899,890 | (1,508,690) | -108.45% |
| Equipment Purchases | 73,500 | 49,000 | 52,161 | (3,161) | -6.45% |
| Depreciation | 470,000 | 313,333 | 313,333 | (0) | 0.00% |
| Subtotal Before Allocations | \$ 6,523,556 | \$ 4,349,038 | \$ 6,044,176 | \$ (1,695,139) | -38.98% |
| Allocation of Support Departments | 4,035,331 | 2,690,221 | 2,477,259 | 212,961 | 7.92% |
| Total Operating Expenses | \$ 10,558,887 | \$ 7,039,258 | \$ 8,521,435 | \$ (1,482,177) | -21.06% |
| Operating Surplus/(Deficit) | \$ 1 | \$ 1 | \$ (963,878) | | |

Debt Service Budget vs. Actual

Revenues

| | | | | | |
|------------------------------------|---------------------|---------------------|---------------------|-------------------|--------------|
| Debt Service Rate Revenue | \$ 9,339,509 | \$ 6,226,339 | \$ 6,226,344 | \$ 5 | 0.00% |
| Septage Receiving Support - County | A 109,440 | 72,960 | 109,440 | 36,480 | 50.00% |
| Trust Fund Interest | 86,900 | 57,933 | 124,666 | 66,733 | 115.19% |
| Reserve Fund Interest | 410,200 | 273,467 | 488,207 | 214,740 | 78.53% |
| Total Debt Service Revenues | \$ 9,946,049 | \$ 6,630,699 | \$ 6,948,657 | \$ 317,957 | 4.80% |

Debt Service Costs

| | | | | | |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------|
| Total Principal & Interest | \$ 7,812,249 | \$ 5,208,166 | \$ 5,208,166 | \$ - | 0.00% |
| Reserve Additions-Interest | 410,200 | 273,467 | 488,207 | (214,740) | -78.53% |
| Debt Service Ratio Charge | 325,000 | 216,667 | 216,667 | - | 0.00% |
| Est. New Debt Service - CIP Growth | 1,398,600 | 932,400 | 932,400 | - | 0.00% |
| Total Debt Service Costs | \$ 9,946,049 | \$ 6,630,699 | \$ 6,845,439 | \$ (214,740) | -3.24% |
| Debt Service Surplus/(Deficit) | \$ - | \$ - | \$ 103,218 | | |

Rate Center Summary

| | | | | | |
|---------------------------------|---------------|---------------|---------------------|-------------|---------|
| Total Revenues | \$ 20,504,937 | \$ 13,669,958 | \$ 14,506,214 | \$ 836,256 | 6.12% |
| Total Expenses | 20,504,936 | 13,669,957 | 15,366,875 | (1,696,917) | -12.41% |
| Surplus/(Deficit) | \$ 1 | \$ 1 | \$ (860,661) | | |
| Costs per 1000 Gallons | \$ 3.11 | | \$ 3.54 | | |
| Operating and DS | \$ 6.05 | | \$ 6.39 | | |
| Thousand Gallons Treated | 3,390,400 | 2,260,267 | 2,404,068 | 143,801 | 6.36% |
| or | | | | | |
| Flow (MGD) | 9.289 | | 9.853 | | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Glenmore Wastewater Rate Center
Revenues and Expenses Summary

| <i>Budget FY 2024</i> | <i>Budget Year-to-Date</i> | <i>Actual Year-to-Date</i> | <i>Budget vs. Actual</i> | <i>Variance Percentage</i> |
|---------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|
|---------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|

Operating Budget vs. Actual

Notes

Revenues

| | | | | | |
|---------------------------------|-------------------|-------------------|-------------------|-----------------|--------------|
| Operations Rate Revenue | \$ 521,916 | \$ 347,944 | \$ 347,944 | \$ - | 0.00% |
| Interest Allocation | 1,700 | 1,133 | 2,817 | 1,684 | 148.56% |
| Total Operating Revenues | \$ 523,616 | \$ 349,077 | \$ 350,761 | \$ 1,684 | 0.48% |

Expenses

| | | | | | |
|------------------------------------|-------------------|-------------------|--------------------|--------------------|---------------|
| Personnel Cost | \$ 127,879 | \$ 85,252 | \$ 88,218 | \$ (2,966) | -3.48% |
| Professional Services | 25,000 | 16,667 | 14,794 | 1,873 | 11.24% |
| Other Services & Charges | 35,400 | 23,600 | 32,465 | (8,865) | -37.57% |
| Communications | 3,450 | 2,300 | 6,987 | (4,687) | -203.79% |
| Information Technology | 13,000 | 8,667 | 14,789 | (6,122) | -70.64% |
| Supplies | - | - | 35 | (35) | |
| Operations & Maintenance | 143,550 | 95,700 | 93,757 | 1,943 | 2.03% |
| Equipment Purchases | 3,800 | 2,533 | 2,533 | (0) | 0.00% |
| Depreciation | 25,000 | 16,667 | 16,667 | 0 | 0.00% |
| Subtotal Before Allocations | \$ 377,079 | \$ 251,386 | \$ 270,246 | \$ (18,861) | -7.50% |
| Allocation of Support Departments | 146,534 | 97,690 | 90,874 | 6,816 | 6.98% |
| Total Operating Expenses | \$ 523,613 | \$ 349,075 | \$ 361,120 | \$ (12,044) | -3.45% |
| Operating Surplus/(Deficit) | \$ 3 | \$ 2 | \$ (10,359) | | |

Debt Service Budget vs. Actual

Revenues

| | | | | | |
|------------------------------------|------------------|------------------|------------------|---------------|--------------|
| Debt Service Rate Revenue | \$ 22,680 | \$ 15,120 | \$ 15,120 | \$ - | 0.00% |
| Trust Fund Interest | 200 | 133 | 310 | 176 | 132.29% |
| Reserve Fund Interest | - | - | - | - | |
| Total Debt Service Revenues | \$ 22,880 | \$ 15,253 | \$ 15,430 | \$ 176 | 1.16% |

Debt Service Costs

| | | | | | |
|---------------------------------------|------------------|------------------|------------------|-------------|--------------|
| Total Principal & Interest | \$ 18,729 | \$ 12,486 | \$ 12,486 | \$ - | 0.00% |
| Estimated New Principal & Interest | 4,150 | 2,767 | 2,767 | - | 0.00% |
| Reserve Additions-Interest | - | - | - | - | |
| Total Debt Service Costs | \$ 22,879 | \$ 15,253 | \$ 15,253 | \$ - | 0.00% |
| Debt Service Surplus/(Deficit) | \$ 1 | \$ 1 | \$ 177 | | |

| Rate Center Summary | | | | | |
|---|-------------|-------------|--------------------|----------|---------------|
| Total Revenues | \$ 546,496 | \$ 364,331 | \$ 366,191 | \$ 1,860 | 0.51% |
| Total Expenses | 546,492 | 364,328 | 376,372 | (12,044) | -3.31% |
| Surplus/(Deficit) | \$ 4 | \$ 3 | \$ (10,182) | | |
| Costs per 1000 Gallons | \$ 12.65 | | \$ 11.05 | | |
| Operating and DS | \$ 13.20 | | \$ 11.52 | | |
| Thousand Gallons Treated or Flow (MGD) | 41,401 | 27,601 | 32,682 | 5,081 | 18.41% |
| | 0.113 | | 0.134 | | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Scottsville Wastewater Rate Center
Revenues and Expenses Summary

| Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------|------------------------|------------------------|----------------------|------------------------|
|-------------------|------------------------|------------------------|----------------------|------------------------|

Operating Budget vs. Actual

Notes

Revenues

| | | | | | |
|---------------------------------|-------------------|-------------------|-------------------|-----------------|--------------|
| Operations Rate Revenue | \$ 384,192 | \$ 256,128 | \$ 256,128 | \$ - | 0.00% |
| Interest Allocation | 1,300 | 867 | 2,280 | 1,414 | 163.13% |
| Total Operating Revenues | \$ 385,492 | \$ 256,995 | \$ 258,408 | \$ 1,414 | 0.55% |

Expenses

| | | | | | |
|------------------------------------|-------------------|-------------------|-------------------|------------------|--------------|
| Personnel Cost | \$ 127,949 | \$ 85,299 | \$ 88,218 | \$ (2,919) | -3.42% |
| Professional Services | 5,000 | 3,333 | - | 3,333 | 100.00% |
| Other Services & Charges | 24,800 | 16,533 | 24,067 | (7,533) | -45.56% |
| Communications | 3,800 | 2,533 | 5,946 | (3,413) | -134.72% |
| Information Technology | 14,025 | 9,350 | 413 | 8,937 | 95.58% |
| Supplies | - | - | 615 | (615) | |
| Operations & Maintenance | 49,500 | 33,000 | 20,374 | 12,626 | 38.26% |
| Equipment Purchases | 3,700 | 2,467 | 2,467 | 0 | 0.00% |
| Depreciation | 20,000 | 13,333 | 13,333 | (0) | 0.00% |
| Subtotal Before Allocations | \$ 248,774 | \$ 165,849 | \$ 155,433 | \$ 10,416 | 6.28% |
| Allocation of Support Departments | 136,722 | 91,148 | 84,604 | 6,544 | 7.18% |
| Total Operating Expenses | \$ 385,495 | \$ 256,997 | \$ 240,036 | \$ 16,960 | 6.60% |
| Operating Surplus/(Deficit) | \$ (3) | \$ (2) | \$ 18,372 | | |

Debt Service Budget vs. Actual

Revenues

| | | | | | |
|------------------------------------|------------------|------------------|------------------|---------------|--------------|
| Debt Service Rate Revenue | \$ 18,636 | \$ 12,424 | \$ 12,424 | \$ - | 0.00% |
| Trust Fund Interest | 80 | 53 | 129 | 76 | 141.95% |
| Reserve Fund Interest | 1,800 | 1,200 | 2,095 | 895 | 74.61% |
| Total Debt Service Revenues | \$ 20,516 | \$ 13,677 | \$ 14,648 | \$ 971 | 7.10% |

Debt Service Costs

| | | | | | |
|---------------------------------------|------------------|------------------|------------------|-----------------|---------------|
| Total Principal & Interest | \$ 7,471 | \$ 4,981 | \$ 4,981 | \$ - | 0.00% |
| Reserve Additions-Interest | 1,800 | 1,200 | 2,095 | (895) | -74.61% |
| Estimated New Principal & Interest | 11,250 | 7,500 | 7,500 | - | 0.00% |
| Total Debt Service Costs | \$ 20,521 | \$ 13,681 | \$ 14,576 | \$ (895) | -6.54% |
| Debt Service Surplus/(Deficit) | \$ (5) | \$ (3) | \$ 72 | | |

| Rate Center Summary | | | | | |
|---------------------------------|---------------|---------------|------------------|----------|--------|
| Total Revenues | \$ 406,008 | \$ 270,672 | \$ 273,057 | \$ 2,385 | 0.88% |
| Total Expenses | 406,016 | 270,677 | 254,612 | 16,065 | 5.94% |
| Surplus/(Deficit) | \$ (8) | \$ (5) | \$ 18,444 | | |
| Costs per 1000 Gallons | \$ 16.30 | | \$ 15.90 | | |
| Operating and DS | \$ 17.17 | | \$ 16.87 | | |
| Thousand Gallons Treated | 23,643 | 15,762 | 15,094 | (668) | -4.24% |
| or | | | | | |
| Flow (MGD) | 0.065 | | 0.062 | | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Administration

| Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------|------------------------|------------------------|----------------------|------------------------|
|-------------------|------------------------|------------------------|----------------------|------------------------|

Operating Budget vs. Actual

Notes

Revenues

| | | | | | | | | | |
|---|-----------|----------------|-----------|----------------|-----------|----------------|-----------|--------------|--------------|
| Payment for Services SWA | \$ | 781,000 | \$ | 520,667 | \$ | 520,667 | \$ | 0 | 0.00% |
| Bond Proceeds Funding Bond Issuance Costs | | - | | - | | - | | - | |
| Miscellaneous Revenue | | - | | 6,621 | | 6,621 | | | |
| Total Operating Revenues | \$ | 781,000 | \$ | 520,667 | \$ | 527,287 | \$ | 6,621 | 1.27% |

Expenses

| | | | | | | | | | |
|---------------------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|----------------|--------------|
| Personnel Cost | \$ | 2,930,008 | \$ | 1,953,339 | \$ | 1,808,910 | \$ | 144,429 | 7.39% |
| Professional Services | F | 136,450 | | 90,967 | | 107,045 | | (16,078) | -17.68% |
| Other Services & Charges | | 140,760 | | 93,840 | | 87,640 | | 6,200 | 6.61% |
| Communications | E | 42,800 | | 28,533 | | 48,491 | | (19,958) | -69.94% |
| Information Technology | | 778,800 | | 519,200 | | 455,624 | | 63,576 | 12.25% |
| Supplies | | 22,800 | | 15,200 | | 14,133 | | 1,067 | 7.02% |
| Operations & Maintenance | | 64,200 | | 42,800 | | 30,503 | | 12,297 | 28.73% |
| Equipment Purchases | | 15,000 | | 10,000 | | 10,089 | | (89) | -0.89% |
| Depreciation | | - | | - | | - | | - | |
| Total Operating Expenses | \$ | 4,130,818 | \$ | 2,753,879 | \$ | 2,562,436 | \$ | 191,443 | 6.95% |

Department Summary

| | | | | | | | | | | |
|--|---------|-----------|--------------------|-----------|--------------------|-----------|--------------------|-----------|------------------|--------------|
| Net Costs Allocable to Rate Centers | | \$ | (3,349,818) | \$ | (2,233,212) | \$ | (2,035,148) | \$ | (198,064) | 8.87% |
| Allocations to the Rate Centers | | | | | | | | | | |
| Urban Water | 44.00% | \$ | 1,473,920 | \$ | 982,613 | \$ | 895,465 | \$ | 87,148 | |
| Crozet Water | 4.00% | \$ | 133,993 | | 89,328 | | 81,406 | | 7,923 | |
| Scottsville Water | 2.00% | \$ | 66,996 | | 44,664 | | 40,703 | | 3,961 | |
| Urban Wastewater | 48.00% | \$ | 1,607,913 | | 1,071,942 | | 976,871 | | 95,071 | |
| Glenmore Wastewater | 1.00% | \$ | 33,498 | | 22,332 | | 20,351 | | 1,981 | |
| Scottsville Wastewater | 1.00% | \$ | 33,498 | | 22,332 | | 20,351 | | 1,981 | |
| | 100.00% | \$ | 3,349,818 | \$ | 2,233,212 | \$ | 2,035,148 | \$ | 198,064 | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Maintenance

| Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------|------------------------|------------------------|----------------------|------------------------|
|-------------------|------------------------|------------------------|----------------------|------------------------|

Operating Budget vs. Actual

Notes

Revenues

| | | | | | |
|---------------------------------|-------------|-------------|-----------------|-----------------|--|
| Payment for Services SWA | \$ - | \$ - | \$ - | \$ - | |
| Miscellaneous Revenue | - | - | 1,067 | 1,067 | |
| Total Operating Revenues | \$ - | \$ - | \$ 1,067 | \$ 1,067 | |

Expenses

| | | | | | | |
|---------------------------------|---|---------------------|---------------------|---------------------|------------------|--------------|
| Personnel Cost | B | \$ 1,553,212 | \$ 1,035,474 | \$ 1,058,858 | \$ (23,383) | -2.26% |
| Professional Services | | 25,000 | 16,667 | - | 16,667 | 100.00% |
| Other Services & Charges | | 36,400 | 24,267 | 15,132 | 9,135 | 37.64% |
| Communications | | 11,300 | 7,533 | 15,018 | (7,484) | -99.35% |
| Information Technology | | 17,500 | 11,667 | 1,080 | 10,587 | 90.75% |
| Supplies | | 4,000 | 2,667 | 22 | 2,644 | 99.16% |
| Operations & Maintenance | | 114,150 | 76,100 | 78,221 | (2,121) | -2.79% |
| Equipment Purchases | | 201,000 | 134,000 | 86,667 | 47,333 | 35.32% |
| Depreciation | | - | - | - | - | |
| Total Operating Expenses | | \$ 1,962,562 | \$ 1,308,374 | \$ 1,254,997 | \$ 53,378 | 4.08% |

Department Summary

| | | | | | | |
|--|---------|-----------------------|-----------------------|-----------------------|--------------------|--------------|
| Net Costs Allocable to Rate Centers | | \$ (1,962,562) | \$ (1,308,374) | \$ (1,253,929) | \$ (52,310) | 4.00% |
| Allocations to the Rate Centers | | | | | | |
| Urban Water | 30.00% | \$ 588,768 | \$ 392,512 | \$ 376,179 | \$ 16,334 | |
| Crozet Water | 3.50% | 68,690 | 45,793 | 43,888 | 1,906 | |
| Scottsville Water | 3.50% | 68,690 | 45,793 | 43,888 | 1,906 | |
| Urban Wastewater | 56.50% | 1,108,847 | 739,232 | 708,470 | 30,762 | |
| Glenmore Wastewater | 3.50% | 68,690 | 45,793 | 43,888 | 1,906 | |
| Scottsville Wastewater | 3.00% | 58,877 | 39,251 | 37,618 | 1,633 | |
| | 100.00% | \$ 1,962,562 | \$ 1,308,374 | \$ 1,253,929 | \$ 54,445 | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Laboratory

| <i>Budget FY 2024</i> | <i>Budget Year-to-Date</i> | <i>Actual Year-to-Date</i> | <i>Budget vs. Actual</i> | <i>Variance Percentage</i> |
|---------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|
|---------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|

Operating Budget vs. Actual

Notes

Revenues

N/A

Expenses

| | | | | | |
|---------------------------------|-------------------|-------------------|-------------------|------------------|---------------|
| Personnel Cost | \$ 456,056 | \$ 304,037 | \$ 291,626 | \$ 12,411 | 4.08% |
| Professional Services | - | - | - | - | - |
| Other Services & Charges | 14,580 | 9,720 | 1,479 | 8,241 | 84.78% |
| Communications | 1,400 | 933 | 468 | 465 | 49.86% |
| Information Technology | 1,000 | 667 | - | 667 | 100.00% |
| Supplies | 1,200 | 800 | 1,954 | (1,154) | -144.27% |
| Operations & Maintenance | 115,300 | 76,867 | 57,899 | 18,968 | 24.68% |
| Equipment Purchases | 1,700 | 1,133 | 1,133 | (0) | 0.00% |
| Depreciation | - | - | - | - | - |
| Total Operating Expenses | \$ 591,236 | \$ 394,157 | \$ 354,560 | \$ 39,597 | 10.05% |

Department Summary

| | | | | | | |
|---|---------|---------------------|---------------------|---------------------|--------------------|---------------|
| Net Costs Allocable to Rate Centers | | \$ (591,236) | \$ (394,157) | \$ (354,560) | \$ (39,597) | 10.05% |
| <u>Allocations to the Rate Centers</u> | | | | | | |
| Urban Water | 44.00% | \$ 260,144 | \$ 173,429 | \$ 156,006 | \$ 17,423 | |
| Crozet Water | 4.00% | 23,649 | 15,766 | 14,182 | 1,584 | |
| Scottsville Water | 2.00% | 11,825 | 7,883 | 7,091 | 792 | |
| Urban Wastewater | 47.00% | 277,881 | 185,254 | 166,643 | 18,611 | |
| Glenmore Wastewater | 1.50% | 8,869 | 5,912 | 5,318 | 594 | |
| Scottsville Wastewater | 1.50% | 8,869 | 5,912 | 5,318 | 594 | |
| | 100.00% | \$ 591,236 | \$ 394,157 | \$ 354,560 | \$ 39,597 | |

Rivanna Water & Sewer Authority
 Monthly Financial Statements - February 2024

Engineering

| Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------|------------------------|------------------------|----------------------|------------------------|
|-------------------|------------------------|------------------------|----------------------|------------------------|

Operating Budget vs. Actual

Notes

Revenues

| | | | | | | | | |
|---------------------------------|-----------|----------|-----------|----------|-----------|--------------|-----------|--------------|
| Payment for Services SWA | \$ | - | \$ | - | \$ | 3,052 | \$ | 3,052 |
| <i>Total Operating Revenues</i> | \$ | - | \$ | - | \$ | 3,052 | \$ | 3,052 |

Expenses

| | | | | | | | | | |
|---------------------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|----------------|--------------|
| Personnel Cost | \$ | 2,022,024 | \$ | 1,348,016 | \$ | 1,287,838 | \$ | 60,178 | 4.46% |
| Professional Services | | 30,000 | | 20,000 | | 5,806 | | 14,194 | 70.97% |
| Other Services & Charges | | 22,000 | | 14,667 | | 7,604 | | 7,063 | 48.15% |
| Communications | | 19,540 | | 13,027 | | 9,480 | | 3,547 | 27.23% |
| Information Technology | | 154,900 | | 103,267 | | 69,378 | | 33,888 | 32.82% |
| Supplies | | 8,500 | | 5,667 | | 2,612 | | 3,055 | 53.91% |
| Operations & Maintenance | | 86,740 | | 57,827 | | 27,080 | | 30,747 | 53.17% |
| Equipment Purchases | | 21,500 | | 14,333 | | 14,333 | | 0 | 0.00% |
| Depreciation | | - | | - | | - | | - | |
| <i>Total Operating Expenses</i> | \$ | 2,365,204 | \$ | 1,576,803 | \$ | 1,424,132 | \$ | 152,671 | 9.68% |

Department Summary

| | | | | | | |
|--|--------|-----------------------|-----------------------|-----------------------|---------------------|--------------|
| Net Costs Allocable to Rate Centers | | \$ (2,365,204) | \$ (1,576,803) | \$ (1,421,080) | \$ (149,619) | 9.49% |
| Allocations to the Rate Centers | | | | | | |
| Urban Water | 47.00% | \$ 1,111,646 | \$ 741,097 | \$ 667,907 | \$ 73,190 | |
| Crozet Water | 4.00% | 94,608 | 63,072 | 56,843 | 6,229 | |
| Scottsville Water | 2.00% | 47,304 | 31,536 | 28,422 | 3,114 | |
| Urban Wastewater | 44.00% | 1,040,690 | 693,793 | 625,275 | 68,518 | |
| Glenmore Wastewater | 1.50% | 35,478 | 23,652 | 21,316 | 2,336 | |
| Scottsville Wastewater | 1.50% | 35,478 | 23,652 | 21,316 | 2,336 | |
| 100.00% | | \$ 2,365,204 | \$ 1,576,803 | \$ 1,421,080 | \$ 155,723 | |

**Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report**

Rate Center: Urban Water

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 1,580,700 | \$ 1,053,800 | \$ 1,164,606 | \$ (110,806) | -10.51% |
| 11010 | Overtime & Holiday Pay | 135,000 | 90,000 | 65,093 | 24,907 | 27.67% |
| 12010 | FICA | 131,251 | 87,501 | 91,733 | (4,233) | -4.84% |
| 12020 | Health Insurance | 315,400 | 210,267 | 163,048 | 47,218 | 22.46% |
| 12026 | Employee Assistance Program | 350 | 233 | 275 | (42) | -18.00% |
| 12030 | Retirement | 132,621 | 88,414 | 91,252 | (2,839) | -3.21% |
| 12040 | Life Insurance | 18,810 | 12,540 | 11,937 | 603 | 4.81% |
| 12050 | Fitness Program | 2,000 | 1,333 | 3,132 | (1,798) | -134.87% |
| 12060 | Worker's Comp Insurance | 27,300 | 18,200 | 20,591 | (2,391) | -13.14% |
| Subtotal | | \$ 2,343,432 | \$ 1,562,288 | \$ 1,611,668 | \$ (49,380) | -3.16% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 4,000 | \$ 2,667 | \$ 181 | \$ 2,486 | 93.21% |
| 13150 | Education & Training | 10,100 | 6,733 | 7,470 | (737) | -10.94% |
| 13200 | Travel & Lodging | 1,800 | 1,200 | 1,244 | (44) | -3.67% |
| 13250 | Uniforms | 23,000 | 15,333 | 18,579 | (3,246) | -21.17% |
| 13325 | Recruiting & Medical Testing | 1,000 | 667 | 310 | 357 | 53.53% |
| 13350 | Other | 1,000 | 667 | 92 | 575 | 86.28% |
| Subtotal | | \$ 40,900 | \$ 27,267 | \$ 27,876 | \$ (609) | -2.23% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | \$ 1,500 | \$ 1,000 | \$ 9,991 | \$ (8,991) | -899.10% |
| 20200 | Financial & Administrative Services | 5,000 | 3,333 | 3,600 | (267) | -8.00% |
| 20250 | Bond Issuance Costs | - | - | - | - | - |
| 20300 | Engineering & Technical Services | 172,000 | 114,667 | 64,407 | 50,260 | 43.83% |
| Subtotal | | \$ 178,500 | \$ 119,000 | \$ 77,998 | \$ 41,002 | 34.46% |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 44,900 | \$ 29,933 | \$ 35,053 | \$ (5,120) | -17.10% |
| 21150 | Advertising & Communication | - | - | - | - | - |
| 21250 | Watershed Management | 71,000 | 47,333 | 114,654 | (67,321) | -142.23% |
| 21253 | Safety Programs/ Supplies | 28,200 | 18,800 | 19,195 | (395) | -2.10% |
| 21300 | Authority Dues/ Permits/ Fees | 8,000 | 5,333 | 37,542 | (32,209) | -603.92% |
| 21350 | Laboratory Analysis | 40,133 | 26,755 | 39,805 | (13,050) | -48.78% |
| 21400 | Utilities | 525,000 | 350,000 | 558,438 | (208,438) | -59.55% |
| 21420 | General Other Services | 52,000 | 34,667 | 58,548 | (23,882) | -68.89% |
| 21430 | Governance & Strategic Support | - | - | - | - | - |
| 21450 | Bad Debts | - | - | - | - | - |
| Subtotal | | \$ 769,233 | \$ 512,822 | \$ 863,236 | \$ (350,414) | -68.33% |
| Communication | | | | | | |
| 22100 | Radio | \$ 3,200 | \$ 2,133 | \$ 2,936 | \$ (803) | -37.63% |
| 22150 | Telephone & Data Service | 90,000 | 60,000 | 50,881 | 9,119 | 15.20% |
| 22200 | Cell Phones, Wireless Data | 10,000 | 6,667 | 8,180 | (1,513) | -22.70% |
| Subtotal | | \$ 103,200 | \$ 68,800 | \$ 61,997 | \$ 6,803 | 9.89% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 10,000 | \$ 6,667 | \$ 10,037 | \$ (3,371) | -50.56% |
| 31150 | SCADA Maint. & Support | 101,150 | 67,433 | 41,089 | 26,344 | 39.07% |
| 31200 | Maintenance & Support Services | 500 | 333 | 1,374 | (1,040) | -312.10% |
| 31250 | Software Subscriptions/Purchases | - | - | 2,640 | (2,640) | - |
| 31300 | Security Systems | 16,000 | 10,667 | 400 | 10,267 | 96.25% |
| 31325 | Asset Mgt / Project Mgt Systems | - | - | - | - | - |
| Subtotal | | \$ 127,650 | \$ 85,100 | \$ 55,540 | \$ 29,560 | 34.74% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ 2,000 | \$ 1,333 | \$ 1,719 | \$ (386) | -28.95% |
| 33150 | Subscriptions/ Reference Material | - | - | - | - | - |
| 33350 | Postage & Delivery | 5,000 | 3,333 | 9,601 | (6,267) | -188.02% |
| Subtotal | | \$ 7,000 | \$ 4,667 | \$ 11,320 | \$ (6,653) | -142.57% |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 241,500 | \$ 161,000 | \$ 119,173 | \$ 41,827 | 25.98% |
| 41150 | Building/Land Lease | 175,000 | 116,667 | 175,000 | (58,333) | -50.00% |

**Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report**

Rate Center: Urban Water

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|-----------------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
| 41300 | Dam Maintenance | 95,200 | 63,467 | 96,339 | (32,873) | -51.80% |
| 41350 | Pipelines/ Appurtenances | 62,500 | 41,667 | 91,422 | (49,755) | -119.41% |
| 41400 | Materials, Supplies & Tools | 40,000 | 26,667 | 15,705 | 10,961 | 41.11% |
| 41450 | Chemicals | 1,720,088 | 1,146,725 | 1,364,788 | (218,063) | -19.02% |
| 41500 | Vehicle Maintenance | 10,000 | 6,667 | 11,319 | (4,652) | -69.79% |
| 41550 | Equipment Repair, Replace, Maint. | 261,000 | 174,000 | 108,509 | 65,491 | 37.64% |
| 41600 | Instrumentation & Metering | 189,775 | 126,517 | 44,762 | 81,754 | 64.62% |
| 41650 | Fuel & Lubricants | 29,000 | 19,333 | 15,502 | 3,831 | 19.82% |
| 41700 | General Other Maintenance | 81,005 | 54,003 | 24,724 | 29,279 | 54.22% |
| Subtotal | | \$ 2,905,068 | \$ 1,936,712 | \$ 2,067,244 | \$ (130,532) | -6.74% |
| 81000 | Equipment Purchases | | | | | |
| 81200 | Rental & Leases | | \$ - | \$ 11,940 | \$ (11,940) | |
| 81250 | Equipment (over \$10,000) | | - | - | - | |
| 81300 | Vehicle Replacement Fund | 20,100 | 13,400 | 13,400 | - | 0.00% |
| Subtotal | | \$ 20,100 | \$ 13,400 | \$ 25,340 | \$ (11,940) | -89.11% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ 1,473,920 | \$ 982,613 | \$ 895,465 | \$ 87,148 | 8.87% |
| 95150 | Maintenance Allocation | 588,768 | 392,512 | 376,179 | 16,334 | 4.16% |
| 95200 | Laboratory Allocation | 260,144 | 173,429 | 156,006 | 17,423 | 10.05% |
| 95300 | Engineering Allocation | 1,111,646 | 741,097 | 667,907 | 73,190 | 9.88% |
| Subtotal | | \$ 3,434,478 | \$ 2,289,652 | \$ 2,095,558 | \$ 194,094 | 8.48% |
| 82100 | Depreciation | \$ 300,000 | \$ 200,000 | \$ 200,000 | \$ - | 0.00% |
| Subtotal | | \$ 300,000 | \$ 200,000 | \$ 200,000 | \$ - | 0.00% |
| Total | | \$ 10,229,561 | \$ 6,819,708 | \$ 7,097,777 | \$ (278,069) | -4.08% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report

Rate Center: Crozet Water

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|--------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 221,000 | \$ 147,333 | \$ 162,562 | \$ (15,229) | -10.34% |
| 11010 | Overtime & Holiday Pay | 25,000 | 16,667 | 9,247 | 7,420 | 44.52% |
| 12010 | FICA | 18,819 | 12,546 | 12,830 | (284) | -2.27% |
| 12020 | Health Insurance | 44,700 | 29,800 | 22,777 | 7,023 | 23.57% |
| 12026 | Employee Assistance Program | 50 | 33 | 39 | (6) | -16.55% |
| 12030 | Retirement | 18,542 | 12,361 | 12,770 | (409) | -3.31% |
| 12040 | Life Insurance | 2,630 | 1,753 | 1,865 | (112) | -6.39% |
| 12050 | Fitness Program | 300 | 200 | 421 | (221) | -110.26% |
| 12060 | Worker's Comp Insurance | 4,300 | 2,867 | 3,203 | (336) | -11.74% |
| Subtotal | | \$ 335,341 | \$ 223,561 | \$ 225,714 | \$ (2,154) | -0.96% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 250 | \$ 167 | \$ 26 | \$ 141 | 84.54% |
| 13150 | Education & Training | 2,000 | 1,333 | 1,031 | 303 | 22.71% |
| 13200 | Travel & Lodging | 200 | 133 | 177 | (44) | -32.80% |
| 13250 | Uniforms | 3,500 | 2,333 | 2,644 | (311) | -13.33% |
| 13325 | Recruiting & Medical Testing | 200 | 133 | 41 | 92 | 69.23% |
| 13350 | Other | 200 | 133 | 183 | (50) | -37.61% |
| Subtotal | | \$ 6,350 | \$ 4,233 | \$ 4,102 | \$ 131 | 3.10% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | \$ - | \$ - | \$ - | \$ - | |
| 20200 | Financial & Administrative Services | - | - | - | - | |
| 20250 | Bond Issuance Costs | - | - | - | - | |
| 20300 | Engineering & Technical Services | 22,900 | 15,267 | - | 15,267 | 100.00% |
| Subtotal | | \$ 22,900 | \$ 15,267 | \$ - | \$ 15,267 | |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 2,900 | \$ 1,933 | \$ 2,270 | \$ (336) | -17.39% |
| 21150 | Advertising & Communication | - | - | 1,377 | (1,377) | |
| 21250 | Watershed Management | - | - | - | - | |
| 21253 | Safety Programs/ Supplies | 7,700 | 5,133 | 1,318 | 3,816 | 74.33% |
| 21300 | Authority Dues/ Permits/ Fees | 1,200 | 800 | 16,204 | (15,404) | -1925.51% |
| 21350 | Laboratory Analysis | 21,626 | 14,417 | 15,767 | (1,349) | -9.36% |
| 21400 | Utilities | 100,000 | 66,667 | 85,897 | (19,230) | -28.85% |
| 21420 | General Other Services | - | - | - | - | |
| 21430 | Governance & Strategic Support | - | - | - | - | |
| 21450 | Bad Debts | - | - | - | - | |
| Subtotal | | \$ 133,426 | \$ 88,951 | \$ 122,832 | \$ (33,881) | -38.09% |
| Communication | | | | | | |
| 22100 | Radio | \$ 400 | \$ 267 | \$ 570 | \$ (303) | -113.66% |
| 22150 | Telephone & Data Service | 16,000 | 10,667 | 9,356 | 1,310 | 12.28% |
| 22200 | Cell Phones, Wireless Data | 1,200 | 800 | 1,092 | (292) | -36.51% |
| Subtotal | | \$ 17,600 | \$ 11,733 | \$ 11,018 | \$ 715 | 6.09% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 5,000 | \$ 3,333 | \$ - | \$ 3,333 | 100.00% |
| 31150 | SCADA Maint. & Support | 24,000 | 16,000 | 10,556 | 5,444 | 34.02% |
| 31200 | Maintenance & Support Services | - | - | - | - | |
| 31250 | Software Subscriptions/Purchases | - | - | (684) | 684 | |
| 31300 | Security Systems | 3,400 | 2,267 | - | 2,267 | 100.00% |
| 31325 | Asset Mgt / Project Mgt Systems | - | - | - | - | |
| Subtotal | | \$ 32,400 | \$ 21,600 | \$ 9,873 | \$ 11,727 | 54.29% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ - | \$ - | \$ 82 | \$ (82) | |
| 33150 | Subscriptions/ Reference Material | - | - | - | - | |
| 33350 | Postage & Delivery | 1,500 | 1,000 | 845 | 155 | 15.54% |
| Subtotal | | \$ 1,500 | \$ 1,000 | \$ 927 | \$ 73 | 7.32% |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 26,000 | \$ 17,333 | \$ 17,809 | \$ (475) | -2.74% |
| 41150 | Building/Land Lease | - | - | - | - | |
| 41300 | Dam Maintenance | - | - | 3,850 | (3,850) | 100.00% |
| 41350 | Pipelines/ Appurtenances | 2,000 | 1,333 | 1,000 | 333 | 25.00% |
| 41400 | Materials, Supplies & Tools | 5,000 | 3,333 | 945 | 2,388 | 71.64% |
| 41450 | Chemicals | 212,400 | 141,600 | 149,728 | (8,128) | -5.74% |
| 41500 | Vehicle Maintenance | 1,000 | 667 | 1,572 | (905) | -135.74% |
| 41550 | Equipment Repair, Replace, Maint. | 40,000 | 26,667 | 40,148 | (13,481) | -50.56% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report

Rate Center: Crozet Water

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|----------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| 41600 | Instrumentation & Metering | 34,300 | 22,867 | 1,252 | 21,614 | 94.52% |
| 41650 | Fuel & Lubricants | 5,000 | 3,333 | 2,955 | 378 | 11.34% |
| 41700 | General Other Maintenance | 10,000 | 6,667 | 1,825 | 4,842 | 72.63% |
| <i>Subtotal</i> | | \$ 335,700 | \$ 223,800 | \$ 221,084 | \$ 2,716 | 1.21% |
| Equipment Purchases | | | | | | |
| 81000 | Equipment Purchases | | | | | |
| 81200 | Rental & Leases | \$ - | \$ - | \$ 730 | \$ (730) | |
| 81250 | Equipment (over \$10,000) | - | - | - | - | |
| 81300 | Vehicle Replacement Fund | 3,200 | 2,133 | 2,133 | (0) | 0.00% |
| <i>Subtotal</i> | | \$ 3,200 | \$ 2,133 | \$ 2,863 | \$ (730) | -34.21% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ 133,993 | \$ 89,328 | \$ 81,406 | \$ 7,923 | 8.87% |
| 95150 | Maintenance Allocation | 68,690 | 45,793 | 43,888 | 1,906 | 4.16% |
| 95200 | Laboratory Allocation | 23,649 | 15,766 | 14,182 | 1,584 | 10.05% |
| 95300 | Engineering Allocation | 94,608 | 63,072 | 56,843 | 6,229 | 9.88% |
| <i>Subtotal</i> | | \$ 320,940 | \$ 213,960 | \$ 196,319 | \$ 17,641 | 8.24% |
| 82100 | Depreciation | \$ 60,000 | \$ 40,000 | \$ 40,000 | \$ - | 0.00% |
| <i>Subtotal</i> | | \$ 60,000 | \$ 40,000 | \$ 40,000 | \$ - | 0.00% |
| Total | | \$ 1,269,357 | \$ 846,238 | \$ 834,732 | \$ 11,505 | 1.36% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report

Rate Center: Scottsville Water

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|--------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 146,200 | \$ 97,467 | \$ 108,040 | \$ (10,574) | -10.85% |
| 11000 | Overtime & Holiday Pay | 14,000 | 9,333 | 6,187 | 3,146 | 33.71% |
| 12010 | FICA | 12,255 | 8,170 | 8,534 | (364) | -4.45% |
| 12020 | Health Insurance | 30,000 | 20,000 | 15,143 | 4,857 | 24.29% |
| 12026 | Employee Assistance Program | 30 | 20 | 26 | (6) | -29.45% |
| 12030 | Retirement | 12,266 | 8,177 | 8,496 | (318) | -3.89% |
| 12040 | Life Insurance | 1,740 | 1,160 | 1,291 | (131) | -11.29% |
| 12050 | Fitness Program | 200 | 133 | 275 | (142) | -106.47% |
| 12060 | Worker's Comp Insurance | 2,600 | 1,733 | 1,983 | (250) | -14.40% |
| | Subtotal | \$ 219,291 | \$ 146,194 | \$ 149,974 | \$ (3,780) | -2.59% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 400 | \$ 267 | \$ 17 | \$ 249 | 93.53% |
| 13150 | Education & Training | 2,000 | 1,333 | 687 | 646 | 48.48% |
| 13200 | Travel & Lodging | 100 | 67 | 119 | (52) | -77.84% |
| 13250 | Uniforms | 1,600 | 1,067 | 1,771 | (704) | -65.99% |
| 13325 | Recruiting & Medical Testing | 150 | 100 | 27 | 73 | 73.33% |
| 13350 | Other | 100 | 67 | 7 | 59 | 89.05% |
| | Subtotal | \$ 4,350 | \$ 2,900 | \$ 2,627 | \$ 273 | 9.40% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | \$ - | \$ - | \$ 618 | \$ (618) | |
| 20200 | Financial & Administrative Services | - | - | - | - | |
| 20250 | Bond Issuance Costs | - | - | - | - | |
| 20300 | Engineering & Technical Services | 5,000 | 3,333 | 2,789 | 545 | 16.35% |
| | Subtotal | \$ 5,000 | \$ 3,333 | \$ 3,407 | \$ (73) | |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 1,100 | \$ 733 | \$ 1,444 | \$ (710) | -96.86% |
| 21150 | Advertising & Communication | - | - | - | - | |
| 21250 | Watershed Management | - | - | - | - | |
| 21253 | Safety Programs/ Supplies | 4,200 | 2,800 | 1,986 | 814 | 29.08% |
| 21300 | Authority Dues/ Permits/ Fees | 1,200 | 800 | 718 | 82 | 10.22% |
| 21350 | Laboratory Analysis | 6,300 | 4,200 | 10,253 | (6,053) | -144.11% |
| 21400 | Utilities | 19,000 | 12,667 | 21,149 | (8,482) | -66.97% |
| 21420 | General Other Services | - | - | - | - | |
| 21430 | Governance & Strategic Support | - | - | - | - | |
| 21450 | Bad Debts | - | - | - | - | |
| | Subtotal | \$ 31,800 | \$ 21,200 | \$ 35,549 | \$ (14,349) | -67.69% |
| Communication | | | | | | |
| 22100 | Radio | \$ 250 | \$ 167 | \$ 250 | \$ (83) | -49.81% |
| 22150 | Telephone & Data Service | 5,500 | 3,667 | 9,203 | (5,536) | -150.98% |
| 22200 | Cell Phones, Wireless Data | 1,000 | 667 | 879 | (212) | -31.82% |
| | Subtotal | \$ 6,750 | \$ 4,500 | \$ 10,331 | \$ (5,831) | -129.58% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 5,000 | \$ 3,333 | \$ - | \$ 3,333 | 100.00% |
| 31150 | SCADA Maint. & Support | 13,500 | 9,000 | 3,916 | 5,084 | 56.48% |
| 31200 | Maintenance & Support Services | - | - | - | - | |
| 31250 | Software Subscriptions/Purchases | - | - | 684 | (684) | #DIV/0! |
| 31300 | Security Systems | 1,200 | 800 | - | 800 | 100.00% |
| 31325 | Asset Mgt / Project Mgt Systems | - | - | - | - | |
| | Subtotal | \$ 19,700 | \$ 13,133 | \$ 4,600 | \$ 8,533 | 64.97% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ - | \$ - | \$ 235 | \$ (235) | |
| 33150 | Subscriptions/ Reference Material | - | - | - | - | |
| 33350 | Postage & Delivery | 100 | 67 | 337 | (270) | -405.37% |
| | Subtotal | \$ 100 | \$ 67 | \$ 572 | \$ (505) | -758.23% |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 20,800 | \$ 13,867 | \$ 7,790 | \$ 6,077 | 43.82% |
| 41100 | Building/Land Lease | - | - | - | - | |
| 41300 | Dam Maintenance | - | - | - | - | |
| 41350 | Pipelines/ Appurtenances | - | - | 2,112 | (2,112) | |
| 41400 | Materials, Supplies & Tools | 2,500 | 1,667 | 2,079 | (412) | -24.71% |
| 41450 | Chemicals | 49,600 | 33,067 | 41,914 | (8,847) | -26.76% |
| 41500 | Vehicle Maintenance | 800 | 533 | 1,195 | (661) | -124.02% |
| 41550 | Equipment Repair, Replace, Maint. | 25,000 | 16,667 | 13,773 | 2,894 | 17.36% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report

Rate Center: Scottsville Water

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|----------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| 41600 | Instrumentation & Metering | 26,200 | 17,467 | 1,495 | 15,972 | 91.44% |
| 41650 | Fuel & Lubricants | 2,400 | 1,600 | 863 | 737 | 46.09% |
| 41700 | General Other Maintenance | 7,500 | 5,000 | 11,525 | (6,525) | -130.50% |
| <i>Subtotal</i> | | \$ 134,800 | \$ 89,867 | \$ 82,744 | \$ 7,123 | 7.93% |
| Equipment Purchases | | | | | | |
| 81000 | <i>Equipment Purchases</i> | | | | | |
| 81200 | Rental & Leases | \$ - | \$ - | \$ 772 | \$ (772) | |
| 81250 | Equipment (over \$10,000) | - | - | - | - | |
| 81300 | Vehicle Replacement Fund | 2,000 | 1,333 | 1,333 | (0) | 0.00% |
| <i>Subtotal</i> | | \$ 2,000 | \$ 1,333 | \$ 2,106 | \$ (772) | -57.92% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ 66,996 | \$ 44,664 | \$ 40,703 | \$ 3,961 | 8.87% |
| 95150 | Maintenance Allocation | 68,690 | 45,793 | 43,888 | 1,906 | 4.16% |
| 95200 | Laboratory Allocation | 11,825 | 7,883 | 7,091 | 792 | 10.05% |
| 95300 | Engineering Allocation | 47,304 | 31,536 | 28,422 | 3,114 | 9.88% |
| <i>Subtotal</i> | | \$ 194,815 | \$ 129,877 | \$ 120,103 | \$ 9,773 | 7.53% |
| 82100 | Depreciation | \$ 40,000 | \$ 26,667 | \$ 26,667 | \$ 0 | 0.00% |
| <i>Subtotal</i> | | \$ 40,000 | \$ 26,667 | \$ 26,667 | \$ 0 | 0.00% |
| Total | | \$ 658,606 | \$ 439,071 | \$ 438,680 | \$ 391 | 0.09% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report

Rate Center: Urban Wastewater

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 986,900 | \$ 657,933 | \$ 695,554 | \$ (37,620) | -5.72% |
| 11010 | Overtime & Holiday Pay | 55,000 | 36,667 | 33,035 | 3,632 | 9.91% |
| 12010 | FICA | 79,705 | 53,137 | 54,257 | (1,120) | -2.11% |
| 12020 | Health Insurance | 204,800 | 136,533 | 123,244 | 13,289 | 9.73% |
| 12026 | Employee Assistance Program | 250 | 167 | 186 | (19) | -11.44% |
| 12030 | Retirement | 82,801 | 55,201 | 55,575 | (375) | -0.68% |
| 12040 | Life Insurance | 11,744 | 7,829 | 6,146 | 1,683 | 21.50% |
| 12050 | Fitness Program | 1,400 | 933 | 1,252 | (318) | -34.12% |
| 12060 | Worker's Comp Insurance | 11,000 | 7,333 | 8,313 | (979) | -13.36% |
| | Subtotal | \$ 1,433,600 | \$ 955,734 | \$ 977,562 | \$ (21,828) | -2.28% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 2,500 | \$ 1,667 | \$ 2,877 | \$ (1,211) | -72.65% |
| 13150 | Education & Training | 8,000 | 5,333 | 8,016 | (2,682) | -50.29% |
| 13200 | Travel & Lodging | 1,200 | 800 | 1,520 | (720) | -90.03% |
| 13250 | Uniforms | 11,000 | 7,333 | 8,705 | (1,371) | -18.70% |
| 13325 | Recruiting & Medical Testing | 1,000 | 667 | 728 | (62) | -9.23% |
| 13350 | Other | 1,000 | 667 | 292 | 375 | 56.24% |
| | Subtotal | \$ 24,700 | \$ 16,467 | \$ 22,138 | \$ (5,671) | -34.44% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | \$ 5,000 | \$ 3,333 | \$ 412 | \$ 2,921 | 87.64% |
| 20200 | Financial & Administrative Services | 5,000 | 3,333 | 2,175 | 1,158 | 34.75% |
| 20250 | Bond Issuance Costs | - | - | - | - | - |
| 20300 | Engineering & Technical Services | 30,000 | 20,000 | 51,973 | (31,973) | -159.87% |
| | Subtotal | \$ 40,000 | \$ 26,667 | \$ 54,560 | \$ (27,894) | |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 93,500 | \$ 62,333 | \$ 72,880 | \$ (10,547) | -16.92% |
| 21150 | Advertising & Communication | - | - | - | - | - |
| 21250 | Watershed Management | - | - | - | - | - |
| 21253 | Safety Programs/ Supplies | 20,900 | 13,933 | 23,434 | (9,501) | -68.19% |
| 21300 | Authority Dues/ Permits/ Fees | 36,000 | 24,000 | 32,262 | (8,262) | -34.42% |
| 21350 | Laboratory Analysis | 14,000 | 9,333 | 12,380 | (3,046) | -32.64% |
| 21400 | Utilities | 940,000 | 626,667 | 835,452 | (208,785) | -33.32% |
| 21420 | General Other Services | 1,167,156 | 778,104 | 693,040 | 85,064 | 10.93% |
| 21430 | Governance & Strategic Support | - | - | - | - | - |
| 21450 | Bad Debts | - | - | - | - | - |
| | Subtotal | \$ 2,271,556 | \$ 1,514,371 | \$ 1,669,448 | \$ (155,077) | -10.24% |
| Communication | | | | | | |
| 22100 | Radio | \$ 2,000 | \$ 1,333 | \$ 2,247 | \$ (914) | -68.54% |
| 22150 | Telephone & Data Service | 5,000 | 3,333 | 4,290 | (956) | -28.69% |
| 22200 | Cell Phones, Wireless Data | 4,600 | 3,067 | 4,101 | (1,035) | -33.74% |
| | Subtotal | \$ 11,600 | \$ 7,733 | \$ 10,638 | \$ (2,905) | -37.56% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 15,000 | \$ 10,000 | \$ 1,544 | \$ 8,456 | 84.56% |
| 31150 | SCADA Maint. & Support | 92,000 | 61,333 | 40,816 | 20,517 | 33.45% |
| 31200 | Maintenance & Support Services | - | - | - | - | - |
| 31250 | Software Subscriptions/Purchases | - | - | - | - | - |
| 31300 | Security Systems | 3,600 | 2,400 | - | 2,400 | 100.00% |
| 31325 | Asset Mgt / Project Mgt Systems | - | - | - | - | - |
| | Subtotal | \$ 110,600 | \$ 73,733 | \$ 42,360 | \$ 31,373 | 42.55% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ 1,000 | \$ 667 | \$ 1,605 | \$ (938) | -140.76% |
| 33150 | Subscriptions/ Reference Material | - | - | - | - | - |
| 33350 | Postage & Delivery | 200 | 133 | 480 | (347) | -260.01% |
| | Subtotal | \$ 1,200 | \$ 800 | \$ 2,085 | \$ (1,285) | -160.64% |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 55,800 | \$ 37,200 | \$ 57,395 | \$ (20,195) | -54.29% |
| 41150 | Building/Land Lease | - | - | - | - | - |
| 41300 | Dam Maintenance | - | - | - | - | - |
| 41350 | Pipelines/ Appurtenances | 62,500 | 41,667 | 1,590,688 | (1,549,021) | -3717.65% |
| 41400 | Materials, Supplies & Tools | 57,000 | 38,000 | 26,953 | 11,047 | 29.07% |
| 41450 | Chemicals | 1,031,100 | 687,400 | 713,947 | (26,547) | -3.86% |
| 41500 | Vehicle Maintenance | 20,000 | 13,333 | 13,309 | 24 | 0.18% |
| 41550 | Equipment Repair, Replace, Maint. | 658,900 | 439,267 | 424,093 | 15,174 | 3.45% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report

Rate Center: Urban Wastewater

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|----------------------------|----------------------|---------------------|---------------------|-----------------------|---------------------|
| 41600 | Instrumentation & Metering | 171,500 | 114,333 | 51,129 | 63,204 | 55.28% |
| 41650 | Fuel & Lubricants | 40,000 | 26,667 | 33,619 | (6,953) | -26.07% |
| 41700 | General Other Maintenance | (10,000) | (6,667) | (11,243) | 4,576 | -68.64% |
| <i>Subtotal</i> | | \$ 2,086,800 | \$ 1,391,200 | \$ 2,899,890 | \$ (1,508,690) | -108.45% |
| Equipment Purchases | | | | | | |
| 81000 | <i>Equipment Purchases</i> | | | | | |
| 81200 | Rental & Leases | \$ - | \$ - | \$ 3,161 | \$ (3,161) | |
| 81250 | Equipment (over \$10,000) | - | - | - | - | |
| 81300 | Vehicle Replacement Fund | 73,500 | 49,000 | 49,000 | - | 0.00% |
| <i>Subtotal</i> | | \$ 73,500 | \$ 49,000 | \$ 52,161 | \$ (3,161) | -6.45% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ 1,607,913 | \$ 1,071,942 | \$ 976,871 | \$ 95,071 | 8.87% |
| 95150 | Maintenance Allocation | 1,108,847 | 739,232 | 708,470 | 30,762 | 4.16% |
| 95200 | Laboratory Allocation | 277,881 | 185,254 | 166,643 | 18,611 | 10.05% |
| 95300 | Engineering Allocation | 1,040,690 | 693,793 | 625,275 | 68,518 | 9.88% |
| <i>Subtotal</i> | | \$ 4,035,331 | \$ 2,690,221 | \$ 2,477,259 | \$ 212,961 | 7.92% |
| 82100 | Depreciation | \$ 470,000 | \$ 313,333 | \$ 313,333 | \$ (0) | 0.00% |
| <i>Subtotal</i> | | \$ 470,000 | \$ 313,333 | \$ 313,333 | \$ (0) | 0.00% |
| Total | | \$ 10,558,887 | \$ 7,039,258 | \$ 8,521,435 | \$ (1,482,177) | -21.06% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
February 2024 - Expense Detail Report

Rate Center: Glenmore Wastewater

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 86,850 | \$ 57,900 | \$ 61,234 | \$ (3,334) | -5.76% |
| 11000 | Overtime & Holiday Pay | 4,500 | 3,000 | 3,036 | (36) | -1.20% |
| 12010 | FICA | 6,988 | 4,659 | 4,799 | (140) | -3.01% |
| 12020 | Health Insurance | 18,600 | 12,400 | 10,981 | 1,419 | 11.45% |
| 12026 | Employee Assistance Program | 20 | 13 | 17 | (3) | -26.23% |
| 12030 | Retirement | 7,287 | 4,858 | 4,929 | (71) | -1.46% |
| 12040 | Life Insurance | 1,034 | 689 | 727 | (38) | -5.46% |
| 12050 | Fitness Program | 100 | 67 | 92 | (25) | -37.46% |
| 12060 | Worker's Comp Insurance | 800 | 533 | 610 | (77) | -14.39% |
| Subtotal | | \$ 126,179 | \$ 84,119 | \$ 86,424 | \$ (2,305) | -2.74% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 150 | \$ 100 | \$ 127 | \$ (27) | -27.29% |
| 13150 | Education & Training | 500 | 333 | 632 | (299) | -89.68% |
| 13200 | Travel & Lodging | 100 | 67 | 141 | (74) | -110.75% |
| 13250 | Uniforms | 850 | 567 | 804 | (238) | -41.96% |
| 13325 | Recruiting & Medical Testing | 50 | 33 | 64 | (31) | -93.05% |
| 13350 | Other | 50 | 33 | 26 | 8 | 23.50% |
| Subtotal | | \$ 1,700 | \$ 1,133 | \$ 1,794 | \$ (661) | -58.33% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | | \$ - | \$ - | \$ - | |
| 20200 | Financial & Administrative Services | | - | 150 | (150) | |
| 20250 | Bond Issuance Costs | | - | - | - | |
| 20300 | Engineering & Technical Services | 25,000 | 16,667 | 14,644 | 2,023 | 12.14% |
| Subtotal | | \$ 25,000 | \$ 16,667 | \$ 14,794 | \$ 1,873 | |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 400 | \$ 267 | \$ 252 | \$ 14 | 5.43% |
| 21150 | Advertising & Communication | | - | - | - | |
| 21250 | Watershed Management | | - | - | - | |
| 21253 | Safety Programs/ Supplies | 2,300 | 1,533 | 1,467 | 66 | 4.32% |
| 21300 | Authority Dues/ Permits/ Fees | 3,700 | 2,467 | 3,491 | (1,025) | -41.54% |
| 21350 | Laboratory Analysis | 2,000 | 1,333 | 500 | 833 | 62.51% |
| 21400 | Utilities | 27,000 | 18,000 | 26,755 | (8,755) | -48.64% |
| 21420 | General Other Services | | - | - | - | |
| 21430 | Governance & Strategic Support | | - | - | - | |
| 21450 | Bad Debts | | - | - | - | |
| Subtotal | | \$ 35,400 | \$ 23,600 | \$ 32,465 | \$ (8,865) | -37.57% |
| Communication | | | | | | |
| 22100 | Radio | \$ 250 | \$ 167 | \$ 250 | \$ (83) | -49.81% |
| 22150 | Telephone & Data Service | 2,500 | 1,667 | 6,181 | (4,515) | -270.88% |
| 22200 | Cell Phones, Wireless Data | 700 | 467 | 556 | (90) | |
| Subtotal | | \$ 3,450 | \$ 2,300 | \$ 6,987 | \$ (4,687) | -203.79% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 5,000 | \$ 3,333 | \$ - | \$ 3,333 | 100.00% |
| 31150 | SCADA Maint. & Support | 8,000 | 5,333 | 14,789 | (9,456) | -177.29% |
| 31200 | Maintenance & Support Services | | - | - | - | |
| 31250 | Software Subscriptions/Purchases | | - | - | - | |
| 31300 | Security Systems | | - | - | - | |
| 31325 | Asset Mgt / Project Mgt Systems | | - | - | - | |
| Subtotal | | \$ 13,000 | \$ 8,667 | \$ 14,789 | \$ (6,122) | -70.64% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ - | \$ - | \$ - | \$ - | |
| 33150 | Subscriptions/ Reference Material | | - | - | - | |
| 33350 | Postage & Delivery | | - | 35 | (35) | |
| Subtotal | | \$ - | \$ - | \$ 35 | \$ (35) | |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 9,500 | \$ 6,333 | \$ 5,007 | \$ 1,326 | 20.94% |
| 41100 | Building/Land Lease | | - | - | - | |
| 41300 | Dam Maintenance | | - | - | - | |
| 41350 | Pipelines/ Appurtenances | | - | - | - | |
| 41400 | Materials, Supplies & Tools | 8,500 | 5,667 | 426 | 5,240 | 92.48% |
| 41450 | Chemicals | 5,300 | 3,533 | 2,604 | 930 | 26.32% |
| 41500 | Vehicle Maintenance | 750 | 500 | 388 | 112 | 22.43% |
| 41550 | Equipment Repair, Replace, Maint. | 40,000 | 26,667 | 21,627 | 5,040 | 18.90% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
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Rate Center: Glenmore Wastewater

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|----------------------------|----------------------|---------------------|---------------------|--------------------|---------------------|
| 41600 | Instrumentation & Metering | 5,000 | 3,333 | - | 3,333 | 100.00% |
| 41650 | Fuel & Lubricants | 3,000 | 2,000 | 2,361 | (361) | -18.04% |
| 41700 | General Other Maintenance | 71,500 | 47,667 | 61,345 | (13,678) | -28.69% |
| <i>Subtotal</i> | | \$ 143,550 | \$ 95,700 | \$ 93,757 | \$ 1,943 | 2.03% |
| Equipment Purchases | | | | | | |
| 81000 | <i>Equipment Purchases</i> | | | | | |
| 81200 | Rental & Leases | | \$ - | \$ - | \$ - | |
| 81250 | Equipment (over \$10,000) | | - | - | - | |
| 81300 | Vehicle Replacement Fund | 3,800 | 2,533 | 2,533 | (0) | 0.00% |
| <i>Subtotal</i> | | \$ 3,800 | \$ 2,533 | \$ 2,533 | \$ (0) | 0.00% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ 33,498 | \$ 22,332 | \$ 20,351 | \$ 1,981 | 8.87% |
| 95150 | Maintenance Allocation | 68,690 | 45,793 | 43,888 | 1,906 | 4.16% |
| 95200 | Laboratory Allocation | 8,869 | 5,912 | 5,318 | 594 | 10.05% |
| 95300 | Engineering Allocation | 35,478 | 23,652 | 21,316 | 2,336 | 9.88% |
| <i>Subtotal</i> | | \$ 146,534 | \$ 97,690 | \$ 90,874 | \$ 6,816 | 6.98% |
| 82100 | Depreciation | \$ 25,000 | \$ 16,667 | \$ 16,667 | \$ 0 | 0.00% |
| <i>Subtotal</i> | | \$ 25,000 | \$ 16,667 | \$ 16,667 | \$ 0 | 0.00% |
| Total | | \$ 523,613 | \$ 349,075 | \$ 361,120 | \$ (12,044) | -3.45% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
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Rate Center: Scottsville Wastewater

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 86,850 | \$ 57,900 | \$ 61,234 | \$ (3,334) | -5.76% |
| 11000 | Overtime & Holiday Pay | 4,500 | 3,000 | 3,036 | (36) | -1.21% |
| 12010 | FICA | 6,988 | 4,659 | 4,799 | (140) | -3.01% |
| 12020 | Health Insurance | 18,600 | 12,400 | 10,980 | 1,420 | 11.45% |
| 12026 | Employee Assistance Program | 20 | 13 | 17 | (3) | -26.00% |
| 12030 | Retirement | 7,287 | 4,858 | 4,929 | (71) | -1.46% |
| 12040 | Life Insurance | 1,034 | 689 | 727 | (38) | -5.47% |
| 12050 | Fitness Program | 100 | 67 | 92 | (25) | -37.55% |
| 12060 | Worker's Comp Insurance | 800 | 533 | 610 | (77) | -14.39% |
| | Subtotal | \$ 126,179 | \$ 84,119 | \$ 86,424 | \$ (2,305) | -2.74% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 100 | \$ 67 | \$ 127 | \$ (61) | -90.94% |
| 13150 | Education & Training | 600 | 400 | 632 | (232) | -58.07% |
| 13200 | Travel & Lodging | 100 | 67 | 141 | (74) | -110.75% |
| 13250 | Uniforms | 850 | 567 | 804 | (238) | -41.97% |
| 13325 | Recruiting & Medical Testing | 70 | 47 | 64 | (18) | -37.91% |
| 13350 | Other | 50 | 33 | 25 | 8 | 23.53% |
| | Subtotal | \$ 1,770 | \$ 1,180 | \$ 1,794 | \$ (614) | -52.07% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | | \$ - | \$ - | \$ - | |
| 20200 | Financial & Administrative Services | | - | - | - | |
| 20250 | Bond Issuance Costs | | - | - | - | |
| 20300 | Engineering & Technical Services | 5,000 | 3,333 | - | 3,333 | 100.00% |
| | Subtotal | \$ 5,000 | \$ 3,333 | \$ - | \$ 3,333 | |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 1,000 | \$ 667 | \$ 757 | \$ (90) | -13.48% |
| 21150 | Advertising & Communication | | - | 1,117 | (1,117) | |
| 21250 | Watershed Management | | - | - | - | |
| 21253 | Safety Programs/ Supplies | 2,500 | 1,667 | 1,421 | 245 | 14.71% |
| 21300 | Authority Dues/ Permits/ Fees | 3,700 | 2,467 | 3,491 | (1,025) | -41.54% |
| 21350 | Laboratory Analysis | 1,600 | 1,067 | 2,050 | (984) | -92.23% |
| 21400 | Utilities | 16,000 | 10,667 | 15,230 | (4,563) | -42.78% |
| 21420 | General Other Services | | - | - | - | |
| 21430 | Governance & Strategic Support | | - | - | - | |
| 21450 | Bad Debts | | - | - | - | |
| | Subtotal | \$ 24,800 | \$ 16,533 | \$ 24,067 | \$ (7,533) | -45.56% |
| Communication | | | | | | |
| 22100 | Radio | \$ 250 | \$ 167 | \$ 250 | \$ (83) | -49.81% |
| 22150 | Telephone & Data Service | 3,300 | 2,200 | 5,422 | (3,222) | -146.43% |
| 22200 | Cell Phones, Wireless Data | 250 | 167 | 275 | (108) | -65.07% |
| | Subtotal | \$ 3,800 | \$ 2,533 | \$ 5,946 | \$ (3,413) | -134.72% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 5,000 | \$ 3,333 | \$ - | \$ 3,333 | 100.00% |
| 31150 | SCADA Maint. & Support | 7,825 | 5,217 | 413 | 4,804 | 92.09% |
| 31200 | Maintenance & Support Services | | - | - | - | |
| 31250 | Software Subscriptions/Purchases | | - | - | - | |
| 31300 | Security Systems | 1,200 | 800 | - | 800 | 100.00% |
| 31325 | Asset Mgt / Project Mgt Systems | | - | - | - | |
| | Subtotal | \$ 14,025 | \$ 9,350 | \$ 413 | \$ 8,937 | 95.58% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ - | \$ - | \$ - | \$ - | |
| 33150 | Subscriptions/ Reference Material | | - | - | - | |
| 33350 | Postage & Delivery | | - | 615 | (615) | |
| | Subtotal | \$ - | \$ - | \$ 615 | \$ (615) | |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 10,400 | \$ 6,933 | \$ 3,631 | \$ 3,302 | 47.63% |
| 41100 | Building/Land Lease | | - | - | - | |
| 41300 | Dam Maintenance | | - | - | - | |
| 41350 | Pipelines/ Appurtenances | | - | - | - | |
| 41400 | Materials, Supplies & Tools | 2,500 | 1,667 | 570 | 1,097 | 65.82% |
| 41450 | Chemicals | 1,000 | 667 | 3,647 | (2,980) | -447.07% |
| 41500 | Vehicle Maintenance | 600 | 400 | 388 | 12 | 3.03% |
| 41550 | Equipment Repair, Replace, Maint. | 15,000 | 10,000 | 6,072 | 3,928 | 39.28% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
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Rate Center: Scottsville Wastewater

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|----------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| 41600 | Instrumentation & Metering | 5,000 | 3,333 | - | 3,333 | 100.00% |
| 41650 | Fuel & Lubricants | 1,800 | 1,200 | 822 | 378 | 31.49% |
| 41700 | General Other Maintenance | 13,200 | 8,800 | 5,244 | 3,556 | 40.41% |
| <i>Subtotal</i> | | \$ 49,500 | \$ 33,000 | \$ 20,374 | \$ 12,626 | 38.26% |
| Equipment Purchases | | | | | | |
| 81000 | <i>Equipment Purchases</i> | | | | | |
| 81200 | Rental & Leases | | \$ - | \$ - | \$ - | |
| 81250 | Equipment (over \$10,000) | - | - | - | - | |
| 81300 | Vehicle Replacement Fund | 3,700 | 2,467 | 2,467 | 0 | 0.00% |
| <i>Subtotal</i> | | \$ 3,700 | \$ 2,467 | \$ 2,467 | \$ 0 | 0.00% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ 33,498 | \$ 22,332 | \$ 20,351 | \$ 1,981 | 8.87% |
| 95150 | Maintenance Allocation | 58,877 | 39,251 | 37,618 | 1,633 | 4.16% |
| 95200 | Laboratory Allocation | 8,869 | 5,912 | 5,318 | 594 | 10.05% |
| 95300 | Engineering Allocation | 35,478 | 23,652 | 21,316 | 2,336 | 9.88% |
| <i>Subtotal</i> | | \$ 136,722 | \$ 91,148 | \$ 84,604 | \$ 6,544 | 7.18% |
| 82100 | Depreciation | \$ 20,000 | \$ 13,333 | \$ 13,333 | \$ (0) | 0.00% |
| <i>Subtotal</i> | | \$ 20,000 | \$ 13,333 | \$ 13,333 | \$ (0) | 0.00% |
| Total | | \$ 385,495 | \$ 256,997 | \$ 240,036 | \$ 16,960 | 6.60% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
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Administration

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|--------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 2,157,400 | \$ 1,438,267 | \$ 1,336,125 | \$ 102,142 | 7.10% |
| 11010 | Overtime & Holiday Pay | 500 | 333 | 1,582 | (1,248) | -374.50% |
| 12010 | FICA | 165,079 | 110,053 | 90,851 | 19,202 | 17.45% |
| 12020 | Health Insurance | 314,550 | 209,700 | 189,012 | 20,688 | 9.87% |
| 12026 | Employee Assistance Program | 300 | 200 | 240 | (40) | -19.88% |
| 12030 | Retirement | 181,006 | 120,671 | 115,794 | 4,877 | 4.04% |
| 12040 | Life Insurance | 25,673 | 17,115 | 19,685 | (2,569) | -15.01% |
| 12050 | Fitness Program | 3,000 | 2,000 | 1,038 | 962 | 48.09% |
| 12060 | Worker's Comp Insurance | 9,700 | 6,467 | 7,321 | (855) | -13.22% |
| | Subtotal | \$ 2,857,208 | \$ 1,904,806 | \$ 1,761,647 | \$ 143,159 | 7.52% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 1,800 | \$ 1,200 | \$ 1,134 | \$ 66 | 5.50% |
| 13150 | Education & Training | 38,500 | 25,667 | 21,552 | 4,115 | 16.03% |
| 13200 | Travel & Lodging | 5,000 | 3,333 | 9,631 | (6,297) | -188.92% |
| 13250 | Uniforms | 5,000 | 3,333 | 1,535 | 1,799 | 53.96% |
| 13325 | Recruiting & Medical Testing | 3,500 | 2,333 | 1,245 | 1,088 | 46.63% |
| 13350 | Other | 19,000 | 12,667 | 12,167 | 500 | 3.95% |
| | Subtotal | \$ 72,800 | \$ 48,533 | \$ 47,263 | \$ 1,270 | 2.62% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | \$ 60,000 | \$ 40,000 | \$ 16,654 | \$ 23,347 | 58.37% |
| 20200 | Financial & Administrative Services | 46,450 | 30,967 | 46,175 | (15,209) | -49.11% |
| 20250 | Bond Issuance Costs | - | - | - | - | - |
| 20300 | Engineering & Technical Services | 30,000 | 20,000 | 44,216 | (24,216) | -121.08% |
| | Subtotal | \$ 136,450 | \$ 90,967 | \$ 107,045 | \$ (16,078) | -17.68% |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 5,700 | \$ 3,800 | \$ 4,413 | \$ (613) | -16.14% |
| 21150 | Advertising & Communication | 18,000 | 12,000 | 7,656 | 4,344 | 36.20% |
| 21250 | Watershed Management | - | - | - | - | - |
| 21253 | Safety Programs/ Supplies | 11,560 | 7,707 | 10,163 | (2,456) | -31.87% |
| 21300 | Authority Dues/ Permits/ Fees | 44,100 | 29,400 | 30,522 | (1,122) | -3.82% |
| 21350 | Laboratory Analysis | - | - | - | - | - |
| 21400 | Utilities | 1,400 | 933 | 1,188 | (255) | -27.32% |
| 21420 | General Other Services | 37,500 | 25,000 | 26,233 | (1,233) | -4.93% |
| 21430 | Governance & Strategic Support | 20,000 | 13,333 | 2,509 | 10,825 | 81.19% |
| 21450 | Bad Debts | 2,500 | 1,667 | 4,956 | (3,289) | -197.37% |
| | Subtotal | \$ 140,760 | \$ 93,840 | \$ 87,640 | \$ 6,200 | 6.61% |
| Communication | | | | | | |
| 22100 | Radio | \$ 1,800 | \$ 1,200 | \$ 1,742 | \$ (542) | -45.19% |
| 22150 | Telephone & Data Service | 23,000 | 15,333 | 34,818 | (19,484) | -127.07% |
| 22200 | Cell Phones, Wireless Data | 18,000 | 12,000 | 11,931 | 69 | 0.58% |
| | Subtotal | \$ 42,800 | \$ 28,533 | \$ 48,491 | \$ (19,958) | -69.94% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 145,000 | \$ 96,667 | \$ 81,616 | \$ 15,051 | 15.57% |
| 31150 | SCADA Maint. & Support | 59,000 | 39,333 | 18,411 | 20,922 | 53.19% |
| 31200 | Maintenance & Support Services | 167,000 | 111,333 | 241,376 | (130,042) | -116.80% |
| 31250 | Software Subscriptions/Purchases | 312,800 | 208,533 | 114,222 | 94,312 | 45.23% |
| 31300 | Security Systems | 95,000 | 63,333 | - | 63,333 | 100.00% |
| 31325 | Asset Mgt / Project Mgt Systems | - | - | - | - | - |
| | Subtotal | \$ 778,800 | \$ 519,200 | \$ 455,624 | \$ 63,576 | 12.25% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ 15,000 | \$ 10,000 | \$ 8,921 | \$ 1,079 | 10.79% |
| 33150 | Subscriptions/ Reference Material | 800 | 533 | 396 | 137 | 25.76% |
| 33350 | Postage & Delivery | 7,000 | 4,667 | 4,816 | (149) | -3.20% |
| | Subtotal | \$ 22,800 | \$ 15,200 | \$ 14,133 | \$ 1,067 | 7.02% |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 50,000 | \$ 33,333 | \$ 25,370 | \$ 7,963 | 23.89% |
| 41100 | Building/Land Lease | 6,200 | 4,133 | 4,130 | 3 | 0.08% |
| 41300 | Dam Maintenance | - | - | - | - | - |
| 41350 | Pipelines/ Appurtenances | - | - | - | - | - |
| 41400 | Materials, Supplies & Tools | 1,500 | 1,000 | 747 | 253 | 25.31% |
| 41450 | Chemicals | - | - | - | - | - |
| 41500 | Vehicle Maintenance | 2,500 | 1,667 | (4,650) | 6,317 | 379.00% |
| 41550 | Equipment Repair, Replace, Maint. | - | - | - | - | - |

Rivanna Water and Sewer Authority
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Administration

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-----------------|-------------------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| 41600 | Instrumentation & Metering | - | - | - | - | |
| 41650 | Fuel & Lubricants | 4,000 | 2,667 | 4,906 | (2,239) | -83.98% |
| 41700 | General Other Maintenance | - | - | - | - | |
| <i>Subtotal</i> | | \$ 64,200 | \$ 42,800 | \$ 30,503 | \$ 12,297 | 28.73% |
| 81000 | Equipment Purchases | | | | | |
| 81200 | Rental & Leases | \$ - | \$ - | \$ 89 | \$ (89) | |
| 81250 | Equipment (over \$10,000) | - | - | - | - | |
| 81300 | Vehicle Replacement Fund | 15,000 | 10,000 | 10,000 | - | 0.00% |
| <i>Subtotal</i> | | \$ 15,000 | \$ 10,000 | \$ 10,089 | \$ (89) | -0.89% |
| | Allocations from Departments | | | | | |
| 95100 | Administrative Allocation | \$ - | \$ - | \$ - | \$ - | |
| 95150 | Maintenance Allocation | - | - | - | - | |
| 95200 | Laboratory Allocation | - | - | - | - | |
| 95300 | Engineering Allocation | - | - | - | - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ - | \$ - | |
| 82100 | Depreciation | \$ - | \$ - | \$ - | \$ - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ - | \$ - | |
| Total | | \$ 4,130,818 | \$ 2,753,879 | \$ 2,562,436 | \$ 191,443 | 6.95% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
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Maintenance

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|--------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 1,066,100 | \$ 710,733 | \$ 734,535 | \$ (23,802) | -3.35% |
| 11000 | Overtime & Holiday Pay | 15,000 | 10,000 | 34,160 | (24,160) | -241.60% |
| 12010 | FICA | 82,704 | 55,136 | 57,064 | (1,928) | -3.50% |
| 12020 | Health Insurance | 235,100 | 156,733 | 133,614 | 23,119 | 14.75% |
| 12026 | Employee Assistance Program | 275 | 183 | 200 | (16) | -8.98% |
| 12030 | Retirement | 89,446 | 59,631 | 56,223 | 3,407 | 5.71% |
| 12040 | Life Insurance | 12,687 | 8,458 | 9,661 | (1,203) | -14.23% |
| 12050 | Fitness Program | - | - | - | - | - |
| 12060 | Worker's Comp Insurance | 17,200 | 11,467 | 12,965 | (1,498) | -13.07% |
| Subtotal | | \$ 1,518,512 | \$ 1,012,341 | \$ 1,038,422 | \$ (26,081) | -2.58% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 250 | \$ 167 | \$ - | \$ 167 | 100.00% |
| 13150 | Education & Training | 15,000 | 10,000 | 11,892 | (1,892) | -18.92% |
| 13200 | Travel & Lodging | 650 | 433 | 1,136 | (703) | -162.13% |
| 13250 | Uniforms | 15,500 | 10,333 | 5,381 | 4,953 | 47.93% |
| 13325 | Recruiting & Medical Testing | 2,500 | 1,667 | 365 | 1,302 | 78.10% |
| 13350 | Other | 800 | 533 | 1,662 | (1,129) | -211.60% |
| Subtotal | | \$ 34,700 | \$ 23,133 | \$ 20,436 | \$ 2,698 | 11.66% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | \$ - | \$ - | \$ - | \$ - | - |
| 20200 | Financial & Administrative Services | - | - | - | - | - |
| 20250 | Bond Issuance Costs | - | - | - | - | - |
| 20300 | Engineering & Technical Services | 25,000 | 16,667 | - | 16,667 | - |
| Subtotal | | \$ 25,000 | \$ 16,667 | \$ - | \$ 16,667 | - |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 7,400 | \$ 4,933 | \$ 5,800 | \$ (867) | -17.57% |
| 21150 | Advertising & Communication | - | - | - | - | - |
| 21250 | Watershed Management | - | - | - | - | - |
| 21253 | Safety Programs/ Supplies | 25,000 | 16,667 | 8,367 | 8,300 | 49.80% |
| 21300 | Authority Dues/ Permits/ Fees | - | - | - | - | - |
| 21350 | Laboratory Analysis | - | - | - | - | - |
| 21400 | Utilities | - | - | - | - | - |
| 21420 | General Other Services | 4,000 | 2,667 | 965 | 1,702 | 63.83% |
| 21430 | Governance & Strategic Support | - | - | - | - | - |
| 21450 | Bad Debts | - | - | - | - | - |
| Subtotal | | \$ 36,400 | \$ 24,267 | \$ 15,132 | \$ 9,135 | 37.64% |
| Communication | | | | | | |
| 22100 | Radio | \$ 500 | \$ 333 | \$ 3,995 | \$ (3,662) | -1098.52% |
| 22150 | Telephone & Data Service | 800 | 533 | - | 533 | 100.00% |
| 22200 | Cell Phones, Wireless Data | 10,000 | 6,667 | 11,023 | (4,356) | -65.34% |
| Subtotal | | \$ 11,300 | \$ 7,533 | \$ 15,018 | \$ (7,484) | - |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 13,000 | \$ 8,667 | \$ 448 | \$ 8,219 | 94.84% |
| 31150 | SCADA Maint. & Support | - | - | - | - | - |
| 31200 | Maintenance & Support Services | 2,500 | 1,667 | 632 | 1,035 | 62.07% |
| 31250 | Software Subscriptions/Purchases | 2,000 | 1,333 | - | 1,333 | 100.00% |
| 31300 | Security Systems | - | - | - | - | - |
| 31325 | Asset Mgt / Project Mgt Systems | - | - | - | - | - |
| Subtotal | | \$ 17,500 | \$ 11,667 | \$ 1,080 | \$ 10,587 | 90.75% |
| Supplies | | | | | | |
| 33000 | Supplies | | | | | |
| 33100 | Office Supplies | \$ 4,000 | \$ 2,667 | \$ 22 | \$ 2,644 | 99.16% |
| 33150 | Subscriptions/ Reference Material | - | - | - | - | - |
| 33350 | Postage & Delivery | - | - | - | - | - |
| Subtotal | | \$ 4,000 | \$ 2,667 | \$ 22 | \$ 2,644 | 99.16% |
| Operation & Maintenance | | | | | | |
| 41000 | Operation & Maintenance | | | | | |
| 41100 | Building & Grounds | \$ 20,000 | \$ 13,333 | \$ 7,925 | \$ 5,408 | 40.56% |
| 41150 | Building/Land Lease | - | - | - | - | - |
| 41300 | Dam Maintenance | - | - | - | - | - |
| 41350 | Pipelines/ Appurtenances | 5,000 | 3,333 | 394 | 2,940 | 88.19% |
| 41400 | Materials, Supplies & Tools | 25,000 | 16,667 | 19,920 | (3,254) | -19.52% |
| 41450 | Chemicals | - | - | - | - | - |
| 41500 | Vehicle Maintenance | 16,800 | 11,200 | 20,977 | (9,777) | -87.29% |
| 41550 | Equipment Repair, Replace, Maint. | 30,350 | 20,233 | 3,938 | 16,295 | 80.54% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
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Maintenance

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|----------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| 41600 | Instrumentation & Metering | 2,000 | 1,333 | 1,366 | (32) | -2.42% |
| 41650 | Fuel & Lubricants | 15,000 | 10,000 | 23,701 | (13,701) | -137.01% |
| 41700 | General Other Maintenance | - | - | - | - | |
| <i>Subtotal</i> | | \$ 114,150 | \$ 76,100 | \$ 78,221 | \$ (2,121) | -2.79% |
| 81000 | Equipment Purchases | | | | | |
| 81200 | Rental & Leases | \$ 1,000 | \$ 667 | \$ - | \$ 667 | 100.00% |
| 81250 | Equipment (over \$10,000) | 70,000 | 46,667 | - | 46,667 | 100.00% |
| 81300 | Vehicle Replacement Fund | 130,000 | 86,667 | 86,667 | 0 | 0.00% |
| <i>Subtotal</i> | | \$ 201,000 | \$ 134,000 | \$ 86,667 | \$ 47,333 | 35.32% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ - | \$ - | \$ - | \$ - | |
| 95150 | Maintenance Allocation | - | - | - | - | |
| 95200 | Laboratory Allocation | - | - | - | - | |
| 95300 | Engineering Allocation | - | - | - | - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ - | \$ - | |
| 82100 | Depreciation | \$ - | \$ - | \$ - | \$ - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ - | \$ - | |
| Total | | \$ 1,962,562 | \$ 1,308,374 | \$ 1,254,997 | \$ 53,378 | 4.08% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
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Laboratory

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 312,800 | \$ 208,533 | \$ 217,974 | \$ (9,440) | -4.53% |
| 11000 | Overtime & Holiday Pay | 17,000 | 11,333 | 5,458 | 5,875 | 51.84% |
| 12010 | FICA | 25,230 | 16,820 | 16,631 | 188 | 1.12% |
| 12020 | Health Insurance | 58,800 | 39,200 | 24,478 | 14,722 | 37.55% |
| 12026 | Employee Assistance Program | 60 | 40 | 53 | (13) | -33.20% |
| 12030 | Retirement | 26,244 | 17,496 | 17,175 | 321 | 1.83% |
| 12040 | Life Insurance | 3,722 | 2,482 | 2,963 | (481) | -19.39% |
| 12050 | Fitness Program | 200.00 | 133.33 | 303 | (169) | -127.12% |
| 12060 | Worker's Comp Insurance | 5,300 | 3,533 | 3,966 | (432) | -12.24% |
| Subtotal | | \$ 449,356 | \$ 299,571 | \$ 289,001 | \$ 10,569 | 3.53% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 100 | \$ 67 | \$ - | \$ 67 | 100.00% |
| 13150 | Education & Training | 4,500 | 3,000 | 1,455 | 1,545 | 51.50% |
| 13200 | Travel & Lodging | 500 | 333 | 924 | (591) | -177.33% |
| 13250 | Uniforms | 1,000 | 667 | 112 | 555 | 83.24% |
| 13325 | Recruiting & Medical Testing | 500 | 333 | 74 | 259 | 77.79% |
| 13350 | Other | 100 | 67 | 60 | 7 | 10.29% |
| Subtotal | | \$ 6,700 | \$ 4,467 | \$ 2,625 | \$ 1,842 | 41.23% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | | \$ - | \$ - | \$ - | |
| 20200 | Financial & Administrative Services | | - | - | - | |
| 20250 | Bond Issuance Costs | | - | - | - | |
| 20300 | Engineering & Technical Services | | - | - | - | |
| Subtotal | | \$ - | \$ - | \$ - | \$ - | |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 500 | \$ 333 | \$ 378 | \$ (45) | -13.48% |
| 21150 | Advertising & Communication | | - | - | - | |
| 21250 | Watershed Management | | - | - | - | |
| 21253 | Safety Programs/ Supplies | 6,580 | 4,387 | 565 | 3,822 | 87.12% |
| 21300 | Authority Dues/ Permits/ Fees | 5,500 | 3,667 | 330 | 3,337 | 91.00% |
| 21350 | Laboratory Analysis | 1,000 | 667 | 206 | 461 | 69.13% |
| 21400 | Utilities | | - | - | - | |
| 21420 | General Other Services | 1,000 | 667 | - | 667 | 100.00% |
| 21430 | Governance & Strategic Support | | - | - | - | |
| 21450 | Bad Debts | | - | - | - | |
| Subtotal | | \$ 14,580 | \$ 9,720 | \$ 1,479 | \$ 8,241 | 84.78% |
| Communication | | | | | | |
| 22100 | Radio | \$ - | \$ - | \$ - | \$ - | |
| 22150 | Telephone & Data Service | | - | - | - | |
| 22200 | Cell Phones, Wireless Data | 1,400 | 933 | 468 | 465 | 49.86% |
| Subtotal | | \$ 1,400 | \$ 933 | \$ 468 | \$ 465 | |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ - | \$ - | \$ - | \$ - | |
| 31150 | SCADA Maint. & Support | | - | - | - | |
| 31200 | Maintenance & Support Services | 1,000 | 667 | - | 667 | 100.00% |
| 31250 | Software Subscriptions/Purchases | | - | - | - | |
| 31300 | Security Systems | | - | - | - | |
| 31325 | Asset Mgt / Project Mgt Systems | | - | - | - | |
| Subtotal | | \$ 1,000 | \$ 667 | \$ - | \$ 667 | 100.00% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ 1,000 | \$ 667 | \$ 1,722 | \$ (1,055) | -158.23% |
| 33150 | Subscriptions/ Reference Material | | - | - | - | |
| 33350 | Postage & Delivery | 200 | 133 | 233 | (99) | -74.43% |
| Subtotal | | \$ 1,200 | \$ 800 | \$ 1,954 | \$ (1,154) | -144.27% |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ - | \$ - | \$ 169 | \$ (169) | |
| 41100 | Building/Land Lease | | - | - | - | |
| 41300 | Dam Maintenance | | - | - | - | |
| 41350 | Pipelines/ Appurtenances | | - | - | - | |
| 41400 | Materials, Supplies & Tools | 45,000 | 30,000 | 34,677 | (4,677) | -15.59% |
| 41450 | Chemicals | 10,000 | 6,667 | 2,342 | 4,325 | 64.87% |
| 41500 | Vehicle Maintenance | 1,000 | 667 | 712 | (46) | -6.86% |
| 41550 | Equipment Repair, Replace, Maint. | 29,500 | 19,667 | 11,913 | 7,754 | 39.43% |

Rivanna Water and Sewer Authority
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Laboratory

| Object Code | Line Item | Total Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|----------------------------|----------------------|---------------------|---------------------|-------------------|---------------------|
| 41600 | Instrumentation & Metering | 28,800 | 19,200 | 7,477 | 11,723 | 61.06% |
| 41650 | Fuel & Lubricants | 1,000 | 667 | 608 | 58 | 8.74% |
| 41700 | General Other Maintenance | - | - | - | - | |
| <i>Subtotal</i> | | \$ 115,300 | \$ 76,867 | \$ 57,899 | \$ 18,968 | 24.68% |
| Equipment Purchases | | | | | | |
| 81000 | Equipment Purchases | | | | | |
| 81200 | Rental & Leases | \$ - | \$ - | \$ - | \$ - | |
| 81250 | Equipment (over \$10,000) | - | - | - | - | |
| 81300 | Vehicle Replacement Fund | 1,700 | 1,133 | 1,133 | (0) | 0.00% |
| <i>Subtotal</i> | | \$ 1,700 | \$ 1,133 | \$ 1,133 | \$ (0) | 0.00% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ - | \$ - | \$ - | \$ - | |
| 95150 | Maintenance Allocation | - | - | - | - | |
| 95200 | Laboratory Allocation | - | - | - | - | |
| 95300 | Engineering Allocation | - | - | - | - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ - | \$ - | |
| 82100 | Depreciation | \$ - | \$ - | \$ - | \$ - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ - | \$ - | |
| Total | | \$ 591,236 | \$ 394,157 | \$ 354,560 | \$ 39,597 | 10.05% |

Rivanna Water and Sewer Authority
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Engineering

| Object Code | Line Item | Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|------------------------------------|-------------------------------------|---------------------|---------------------|---------------------|-------------------|---------------------|
| Salaries & Benefits | | | | | | |
| 10000 | Salaries | \$ 1,489,000 | \$ 992,667 | \$ 980,582 | \$ 12,084 | 1.22% |
| 11000 | Overtime & Holiday Pay | 13,000 | 8,667 | 9,899 | (1,233) | -14.22% |
| 12010 | FICA | 114,903 | 76,602 | 72,734 | 3,868 | 5.05% |
| 12020 | Health Insurance | 206,000 | 137,333 | 98,708 | 38,625 | 28.13% |
| 12026 | Employee Assistance Program | 250 | 167 | 173 | (6) | -3.90% |
| 12030 | Retirement | 124,927 | 83,285 | 82,585 | 700 | 0.84% |
| 12040 | Life Insurance | 17,719 | 11,813 | 14,294 | (2,482) | -21.01% |
| 12050 | Fitness Program | 4,300 | 2,867 | 1,730 | 1,136 | 39.64% |
| 12060 | Worker's Comp Insurance | 22,200 | 14,800 | 16,702 | (1,902) | -12.85% |
| | Subtotal | \$ 1,992,299 | \$ 1,328,199 | \$ 1,277,408 | \$ 50,791 | 3.82% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 3,250 | \$ 2,167 | \$ 918 | \$ 1,249 | 57.63% |
| 13150 | Education & Training | 10,000 | 6,667 | 5,979 | 687 | 10.31% |
| 13200 | Travel & Lodging | 10,000 | 6,667 | 1,015 | 5,652 | 84.77% |
| 13250 | Uniforms | 4,375 | 2,917 | 682 | 2,235 | 76.62% |
| 13325 | Recruiting & Medical Testing | 1,500 | 1,000 | 30 | 970 | 97.00% |
| 13350 | Other | 600 | 400 | 1,806 | (1,406) | -351.55% |
| | Subtotal | \$ 29,725 | \$ 19,817 | \$ 10,430 | \$ 9,386 | 47.37% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | \$ 2,500 | \$ 1,667 | \$ - | \$ 1,667 | 100.00% |
| 20200 | Financial & Administrative Services | 2,500 | 1,667 | 3,300 | (1,633) | -98.00% |
| 20250 | Bond Issuance Costs | - | - | - | - | - |
| 20300 | Engineering & Technical Services | 25,000 | 16,667 | 2,506 | 14,160 | 84.96% |
| | Subtotal | \$ 30,000 | \$ 20,000 | \$ 5,806 | \$ 14,194 | 70.97% |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 4,400 | \$ 2,933 | \$ 3,404 | \$ (471) | -16.06% |
| 21150 | Advertising & Communication | 200 | 133 | - | 133 | 100.00% |
| 21250 | Watershed Management | - | - | - | - | - |
| 21253 | Safety Programs/ Supplies | 9,825 | 6,550 | 3,223 | 3,327 | 50.79% |
| 21300 | Authority Dues/ Permits/ Fees | 1,500 | 1,000 | 208 | 792 | 79.20% |
| 21350 | Laboratory Analysis | 250 | 167 | - | 167 | 100.00% |
| 21400 | Utilities | 825 | 550 | 768 | (218) | -39.68% |
| 21420 | General Other Services | - | - | - | - | - |
| 21430 | Governance & Strategic Support | 5,000 | 3,333 | - | 3,333 | 100.00% |
| 21450 | Bad Debts | - | - | - | - | - |
| | Subtotal | \$ 22,000 | \$ 14,667 | \$ 7,604 | \$ 7,063 | 48.15% |
| Communication | | | | | | |
| 22100 | Radio | \$ 4,600 | \$ 3,067 | \$ 2,747 | \$ 320 | 10.44% |
| 22150 | Telephone & Data Service | 1,500 | 1,000 | 71 | 929 | 92.93% |
| 22200 | Cell Phones, Wireless Data | 13,440 | 8,960 | 6,662 | 2,298 | 25.64% |
| | Subtotal | \$ 19,540 | \$ 13,027 | \$ 9,480 | \$ 3,547 | 27.23% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 12,000 | \$ 8,000 | \$ 4,940 | \$ 3,060 | 38.25% |
| 31150 | SCADA Maint. & Support | - | - | - | - | - |
| 31200 | Maintenance & Support Services | 56,700 | 37,800 | 60,999 | (23,199) | -61.37% |
| 31250 | Software Subscriptions/Purchases | 5,500 | 3,667 | 3,440 | 227 | 6.19% |
| 31300 | Security Systems | 33,300 | 22,200 | - | 22,200 | 100.00% |
| 31325 | Asset Mgt / Project Mgt Systems | 47,400 | 31,600 | - | 31,600 | 100.00% |
| | Subtotal | \$ 154,900 | \$ 103,267 | \$ 69,378 | \$ 33,888 | 32.82% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ 7,000 | \$ 4,667 | \$ 1,748 | \$ 2,918 | 62.54% |
| 33150 | Subscriptions/ Reference Material | 900 | 600 | 600 | - | 0.00% |
| 33350 | Postage & Delivery | 600 | 400 | 264 | 136 | 34.05% |
| | Subtotal | \$ 8,500 | \$ 5,667 | \$ 2,612 | \$ 3,055 | 53.91% |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 19,240 | \$ 12,827 | \$ 4,872 | \$ 7,955 | 62.02% |
| 41150 | Building/Land Lease | 1,900 | 1,267 | 1,262 | 5 | 0.37% |
| 41300 | Dam Maintenance | - | - | - | - | - |
| 41350 | Pipelines/ Appurtenances | 17,000 | 11,333 | 7,334 | 3,999 | 35.29% |
| 41400 | Materials, Supplies & Tools | 14,000 | 9,333 | 4,954 | 4,380 | 46.93% |
| 41450 | Chemicals | - | - | 192 | (192) | - |
| 41500 | Vehicle Maintenance | 24,000 | 16,000 | 1,130 | 14,870 | 92.94% |
| 41550 | Equipment Repair, Replace, Maint. | 1,000 | 667 | 649 | 18 | 2.70% |

**Rivanna Water and Sewer Authority
Fiscal Year 2024
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Engineering

| Object Code | Line Item | Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-----------------|-------------------------------------|---------------------|---------------------|---------------------|-------------------|---------------------|
| 41600 | Instrumentation & Metering | - | - | 1,971 | (1,971) | |
| 41650 | Fuel & Lubricants | 9,600 | 6,400 | 4,718 | 1,682 | 26.28% |
| 41700 | General Other Maintenance | - | - | - | - | |
| <i>Subtotal</i> | | \$ 86,740 | \$ 57,827 | \$ 27,080 | \$ 30,747 | 53.17% |
| 81000 | Equipment Purchases | | | | | |
| 81200 | Rental & Leases | \$ - | \$ - | \$ - | \$ - | |
| 81250 | Equipment (over \$10,000) | - | - | - | - | |
| 81300 | Vehicle Replacement Fund | 21,500 | 14,333 | 14,333 | 0 | 0.00% |
| <i>Subtotal</i> | | \$ 21,500 | \$ 14,333 | \$ 14,333 | \$ 0 | 0.00% |
| | Allocations from Departments | | | | | |
| 95100 | Administrative Allocation | \$ - | \$ - | \$ - | \$ - | |
| 95150 | Maintenance Allocation | - | - | - | - | |
| 95200 | Laboratory Allocation | - | - | - | - | |
| 95300 | Engineering Allocation | - | - | - | - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ - | \$ - | |
| 82100 | Depreciation | \$ - | \$ - | \$ - | \$ - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ - | \$ - | |
| Total | | \$ 2,365,204 | \$ 1,576,803 | \$ 1,424,132 | \$ 152,671 | 9.68% |

Rivanna Water and Sewer Authority
Fiscal Year 2024
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Consolidated

| Object Code | Line Item | Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|--------------------------------------|-------------------------------------|----------------------|---------------------|---------------------|-----------------------|---------------------|
| 10000 Salaries & Benefits | | | | | | |
| 11000 | Salaries | \$ 8,133,800 | \$ 5,422,533 | \$ 5,522,446 | \$ (99,913) | -1.84% |
| 11010 | Overtime & Holiday Pay | 283,500 | 189,000 | 170,732 | 18,268 | 9.67% |
| 12010 | FICA | 643,923 | 429,282 | 414,233 | 15,049 | 3.51% |
| 12020 | Health Insurance | 1,446,550 | 964,367 | 791,985 | 172,382 | 17.88% |
| 12026 | Employee Assistance Program | 1,605 | 1,070 | 1,225 | (155) | -14.53% |
| 12030 | Retirement | 682,426 | 454,951 | 449,728 | 5,223 | 1.15% |
| 12040 | Life Insurance | 96,792 | 64,528 | 69,296 | (4,768) | -7.39% |
| 12050 | Fitness Program | 11,600 | 7,733 | 8,334 | (601) | -7.77% |
| 12060 | Worker's Comp Insurance | 101,200 | 67,467 | 76,264 | (8,797) | -13.04% |
| Subtotal | | \$ 11,401,396 | \$ 7,600,931 | \$ 7,504,244 | \$ 96,687 | 1.27% |
| Other Personnel Costs | | | | | | |
| 13100 | Employee Dues & Licenses | \$ 12,800 | \$ 8,533 | \$ 5,408 | \$ 3,125 | 36.63% |
| 13150 | Education & Training | 91,200 | 60,800 | 59,346 | 1,454 | 2.39% |
| 13200 | Travel & Lodging | 19,650 | 13,100 | 16,047 | (2,947) | -22.50% |
| 13250 | Uniforms | 66,675 | 44,450 | 41,017 | 3,433 | 7.72% |
| 13325 | Recruiting & Medical Testing | 10,470 | 6,980 | 2,949 | 4,031 | 57.75% |
| 13350 | Other | 22,900 | 15,267 | 16,320 | (1,053) | -6.90% |
| Subtotal | | \$ 223,695 | \$ 149,130 | \$ 141,086 | \$ 8,044 | 5.39% |
| Professional Services | | | | | | |
| 20100 | Legal Fees | \$ 69,000 | \$ 46,000 | \$ 27,675 | \$ 18,326 | 39.84% |
| 20200 | Financial & Administrative Services | 58,950 | 39,300 | 55,400 | (16,100) | -40.97% |
| 20250 | Bond Issuance Costs | - | - | - | - | - |
| 20300 | Engineering & Technical Services | 339,900 | 226,600 | 180,535 | 46,065 | 20.33% |
| Subtotal | | \$ 467,850 | \$ 311,900 | \$ 263,610 | \$ 48,290 | 15.48% |
| Other Services and Charges | | | | | | |
| 21100 | General Liability/ Property Ins. | \$ 161,800 | \$ 107,867 | \$ 126,651 | \$ (18,784) | -17.41% |
| 21150 | Advertising & Communication | 18,200 | 12,133 | 10,150 | 1,983 | 16.34% |
| 21250 | Watershed Management | 71,000 | 47,333 | 114,654 | (67,321) | -142.23% |
| 21253 | Safety Programs/ Supplies | 118,765 | 79,177 | 71,139 | 8,038 | 10.15% |
| 21300 | Authority Dues/ Permits/ Fees | 104,900 | 69,933 | 124,770 | (54,836) | -78.41% |
| 21350 | Laboratory Analysis | 86,909 | 57,939 | 80,960 | (23,021) | -39.73% |
| 21400 | Utilities | 1,629,225 | 1,086,150 | 1,544,877 | (458,727) | -42.23% |
| 21420 | General Other Services | 1,261,656 | 841,104 | 778,786 | 62,318 | 7.41% |
| 21430 | Governance & Strategic Support | 25,000 | 16,667 | 2,509 | 14,158 | 84.95% |
| 21450 | Bad Debts | 2,500 | 1,667 | 4,956.12 | (3,289) | -197.37% |
| Subtotal | | \$ 3,479,955 | \$ 2,319,970 | \$ 2,859,452 | \$ (539,482) | -23.25% |
| Communication | | | | | | |
| 22100 | Radio | \$ 13,250 | \$ 8,833 | \$ 14,986 | \$ (6,153) | -69.66% |
| 22150 | Telephone & Data Service | 147,600 | 98,400 | 120,221 | (21,821) | -22.18% |
| 22200 | Cell Phones, Wireless Data | 60,590 | 40,393 | 45,167 | (4,774) | -11.82% |
| Subtotal | | \$ 221,440 | \$ 147,627 | \$ 180,374 | \$ (32,748) | -22.18% |
| Information Technology | | | | | | |
| 31100 | Computer Hardware | \$ 215,000 | \$ 143,333 | \$ 98,584 | \$ 44,749 | 31.22% |
| 31150 | SCADA Maint. & Support | 305,475 | 203,650 | 129,991 | 73,659 | 36.17% |
| 31200 | Maintenance & Support Services | 227,700 | 151,800 | 304,380 | (152,580) | -100.51% |
| 31250 | Software Subscriptions/Purchases | 320,300 | 213,533 | 120,301 | 93,232 | 43.66% |
| 31300 | Security Systems | 153,700 | 102,467 | 400 | 102,067 | 99.61% |
| 31325 | Asset Mgt / Project Mgt Systems | 47,400 | 31,600 | - | 31,600 | 100.00% |
| Subtotal | | \$ 1,269,575 | \$ 846,383 | \$ 653,657 | \$ 192,726 | 22.77% |
| Supplies | | | | | | |
| 33000 | Office Supplies | \$ 30,000 | \$ 20,000 | \$ 16,055 | \$ 3,945 | 19.72% |
| 33150 | Subscriptions/ Reference Material | 1,700 | 1,133 | 996 | 137 | 12.12% |
| 33350 | Postage & Delivery | 14,600 | 9,733 | 17,224 | (7,491) | -76.96% |
| Subtotal | | \$ 46,300 | \$ 30,867 | \$ 34,276 | \$ (3,409) | -11.04% |
| Operation & Maintenance | | | | | | |
| 41000 | Building & Grounds | \$ 453,240 | \$ 302,160 | \$ 249,141 | \$ 53,019 | 17.55% |
| 41100 | Building/Land Lease | 183,100 | 122,067 | 180,392 | (58,325) | -47.78% |
| 41300 | Dam Maintenance | 95,200 | 63,467 | 100,189 | (36,723) | -57.86% |
| 41350 | Pipelines/ Appurtenances | 149,000 | 99,333 | 1,692,948 | (1,593,615) | -1604.31% |
| 41400 | Materials, Supplies & Tools | 201,000 | 134,000 | 106,976 | 27,024 | 20.17% |
| 41450 | Chemicals | 3,029,488 | 2,019,659 | 2,279,162 | (259,503) | -12.85% |
| 41500 | Vehicle Maintenance | 77,450 | 51,633 | 46,339 | 5,294 | 10.25% |
| 41550 | Equipment Repair, Replace, Maint. | 1,100,750 | 733,833 | 630,721 | 103,112 | 14.05% |
| 41600 | Instrumentation & Metering | 462,575 | 308,383 | 109,452 | 198,931 | 64.51% |
| 41650 | Fuel & Lubricants | 110,800 | 73,867 | 90,056 | (16,189) | -21.92% |
| 41700 | General Other Maintenance | 173,205 | 115,470 | 93,420 | 22,050 | 19.10% |
| Subtotal | | \$ 6,035,808 | \$ 4,023,872 | \$ 5,578,796 | \$ (1,554,924) | -38.64% |
| Equipment Purchases | | | | | | |
| 81000 | Equipment Purchases | \$ 1,000 | 667 | \$ 16,693 | \$ (16,026) | -2403.90% |
| 81200 | Rental & Leases | | | | | |

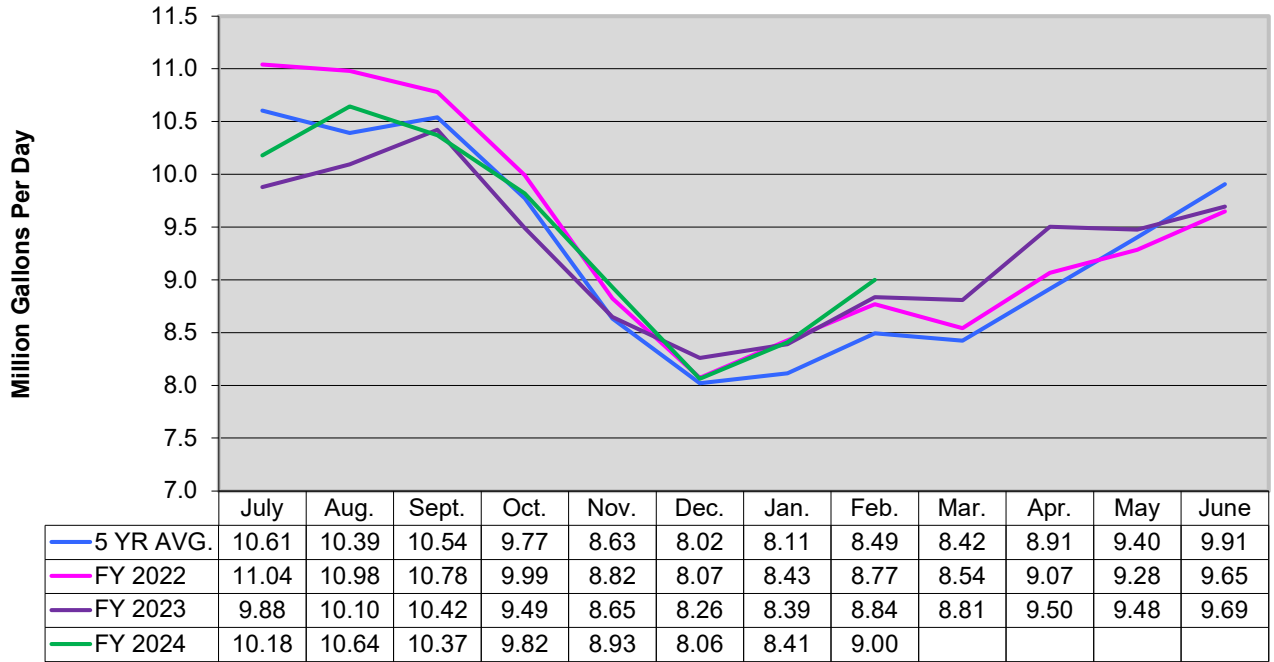
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February 2024 - Expense Detail Report

Consolidated

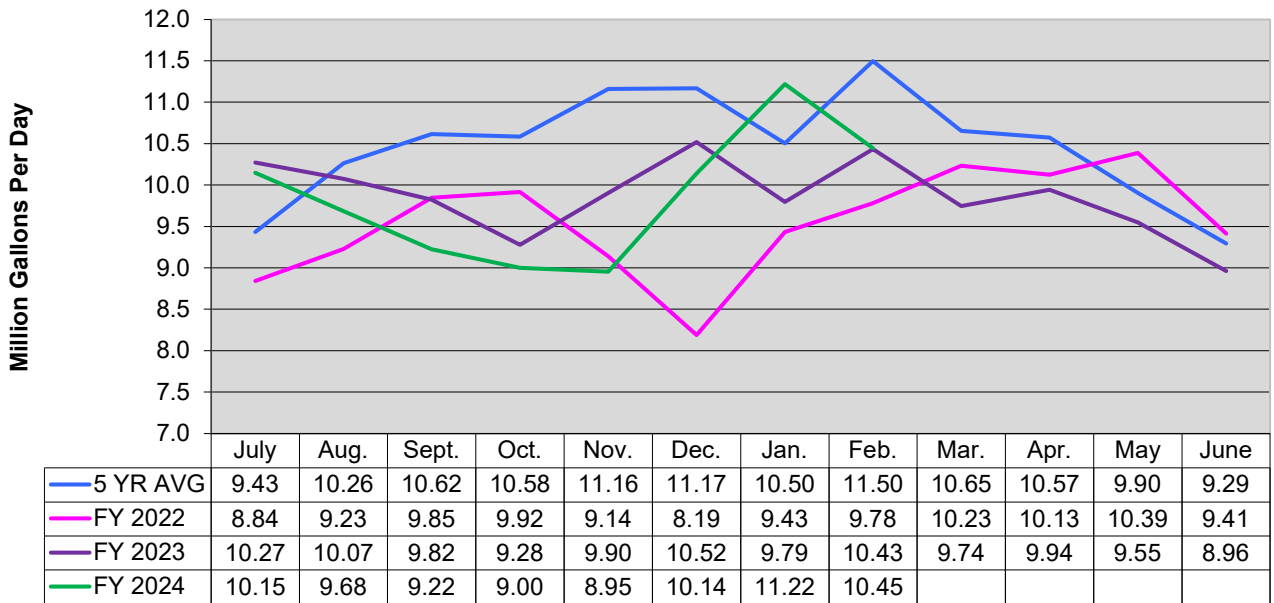
| Object Code | Line Item | Budget FY 2024 | Budget Year-to-Date | Actual Year-to-Date | Budget vs. Actual | Variance Percentage |
|-------------------------------------|---------------------------|----------------------|----------------------|----------------------|-----------------------|---------------------|
| 81250 | Equipment (over \$10,000) | 70,000 | 46,667 | - | 46,667 | 100.00% |
| 81300 | Vehicle Replacement Fund | 274,500 | 183,000 | 183,000 | 0 | 0.00% |
| <i>Subtotal</i> | | \$ 345,500 | \$ 230,333 | \$ 199,693 | \$ 30,641 | 13.30% |
| Allocations from Departments | | | | | | |
| 95100 | Administrative Allocation | \$ - | \$ - | \$ (0) | \$ 0 | |
| 95150 | Maintenance Allocation | - | - | - | - | |
| 95200 | Laboratory Allocation | - | - | 0 | (0) | |
| 95300 | Engineering Allocation | - | - | - | - | |
| <i>Subtotal</i> | | \$ - | \$ - | \$ (0) | \$ 0 | |
| 82100 | Depreciation | \$ 915,000 | \$ 610,000 | \$ 610,000 | \$ - | 0.00% |
| 82110 | Capital Reserve Transfers | - | - | - | - | |
| <i>Subtotal</i> | | \$ 915,000 | \$ 610,000 | \$ 610,000 | \$ - | 0.00% |
| Total | | \$ 24,406,519 | \$ 16,271,013 | \$ 18,025,188 | \$ (1,754,175) | -10.78% |

**Rivanna Water and Sewer Authority
Flow Graphs**

Urban Water Flows



Urban Wastewater Flows





MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: DAVE TUNGATE, DIRECTOR OF OPERATIONS & ENVIRONMENTAL
SERVICES**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: OPERATIONS REPORT FOR MARCH 2024

DATE: APRIL 23, 2024

WATER OPERATIONS:

The average and maximum daily water volumes produced in March 2024 were as follows:

| <i>Water Treatment Plant</i> | <i>Average Daily Production (MGD)</i> | <i>Maximum Daily Production in the Month (MGD)</i> |
|------------------------------|---------------------------------------|--|
| South Rivanna | 7.50 | 8.72 (3/11/2024) |
| Observatory | 0.70 | 1.51 (3/28/2024) |
| North Rivanna | <u>0.43</u> | <u>0.65 (3/22/2024)</u> |
| <i>Urban Total</i> | 8.63 | 9.42 (3/14/2024) |
| Crozet | 0.55 | 0.60 (3/8/2024) |
| Scottsville | 0.04 | 0.052 (3/4/2024) |
| Red Hill | <u>0.0020</u> | 0.003 (3/15/2024) |
| <i>RWSA Total</i> | 9.22 | - |

- All RWSA water treatment facilities were in regulatory compliance during the month of March.

Status of Reservoirs (as of April 17, 2024):

- Urban Reservoirs are 100% of Total Useable Capacity
 - South Rivanna Reservoir is full
 - Ragged Mountain Reservoir is full
 - Sugar Hollow Reservoir is full
- Beaver Creek Reservoir (Crozet) is full
- Totier Creek Reservoir (Scottsville) is full

WASTEWATER OPERATIONS:

All RWSA Water Resource Recovery Facilities (WRRFs) were in regulatory compliance with their effluent limitations during March 2024. Performance of the WRRFs in March was as follows compared to the respective VDEQ permit limits:

| WRRF | Average Daily Effluent Flow (MGD) | Average CBOD₅ (ppm) | | Average Total Suspended Solids (ppm) | | Average Ammonia (ppm) | |
|-----------------------|--|---------------------------------------|--------------|---|--------------|------------------------------|--------------|
| | | RESULT | LIMIT | RESULT | LIMIT | RESULT | LIMIT |
| Moores Creek | 11.0 | <QL | 9 | <QL | 22 | <QL | 2.2 |
| Glenmore | 0.144 | 4.0 | 15 | 6.0 | 30 | NR | NL |
| Scottsville | 0.10 | 4.3 | 25 | 12.0 | 30 | NR | NL |
| Stone Robinson | 0.002 | 3.0 | 30 | 7.8 | 30 | NR | NL |

NR = Not Required

NL = No Limit

<QL: Less than analytical method quantitative level (2.0 ppm for CBOD, 1.0 ppm for TSS, and 0.1 ppm for Ammonia).

Nutrient discharges at the Moores Creek AWRRF were as follows for March 2024.

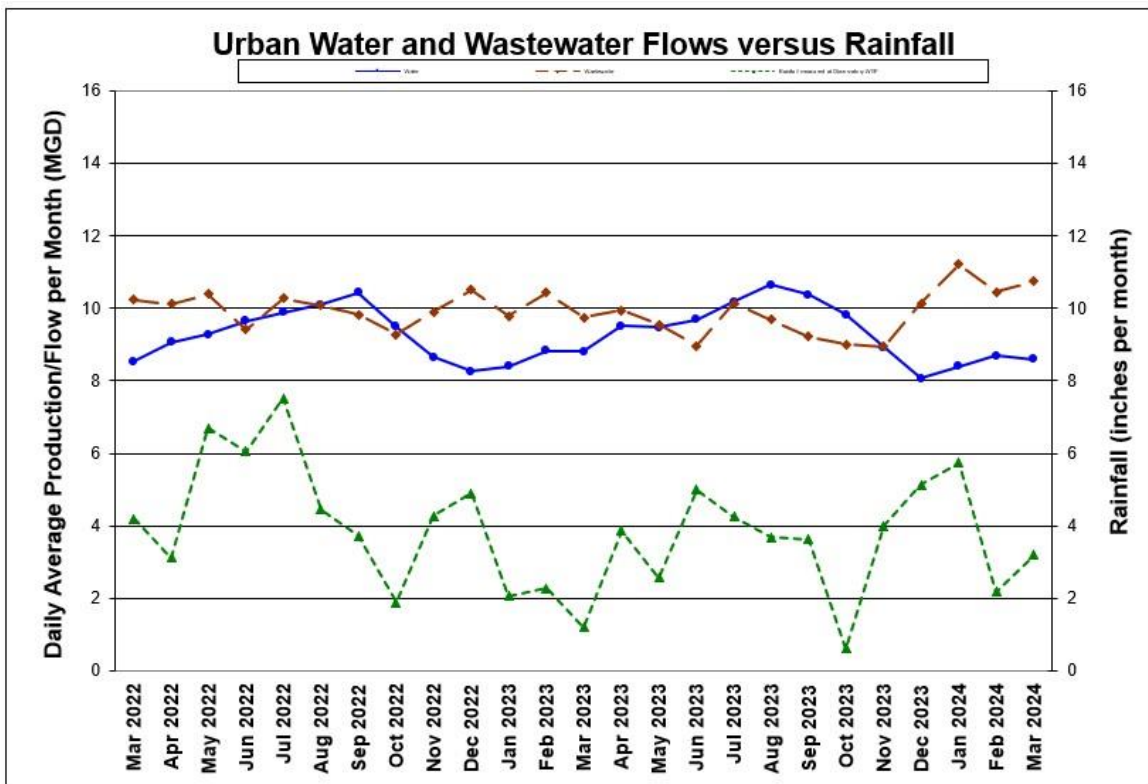
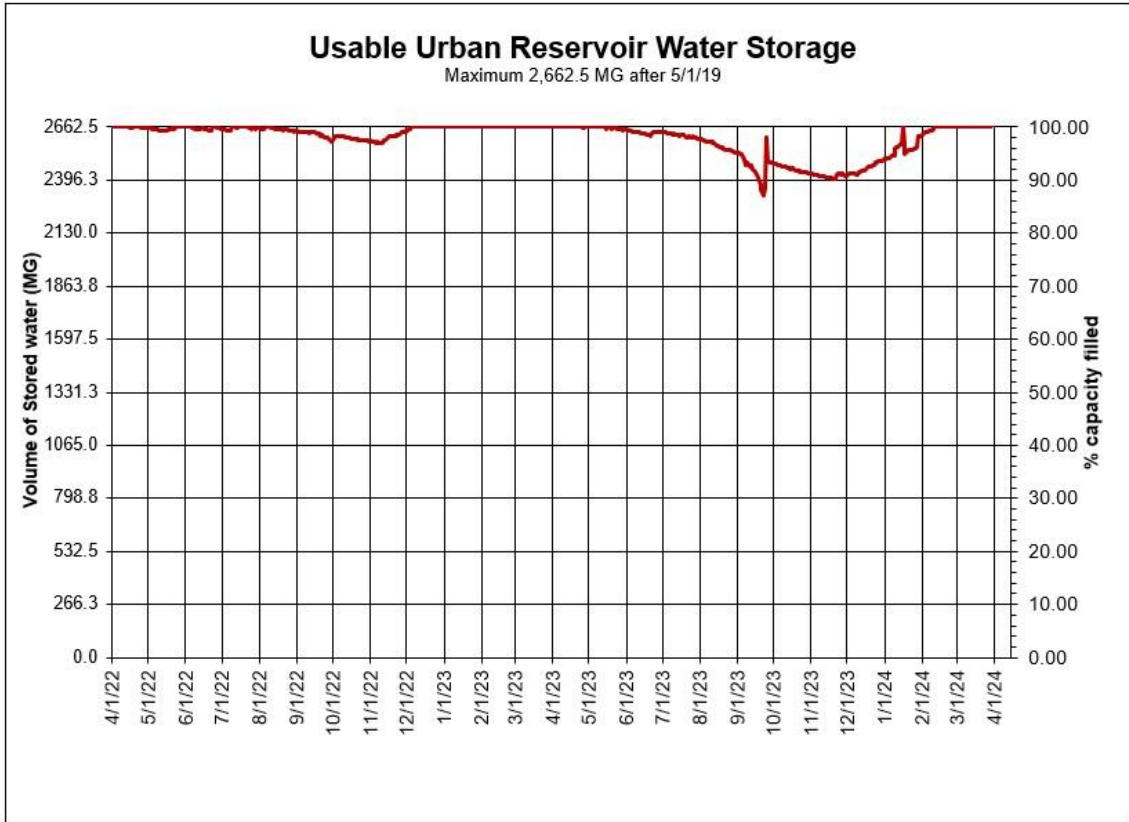
| State Annual Allocation (lb./yr.) Permit | Average Monthly Allocation (lb./mo.) * | Moores Creek Discharge March (lb./mo.) | Performance as % of monthly average Allocation* | Year to Date Performance as % of annual allocation |
|---|---|---|--|---|
| Nitrogen | 282,994 | 23,583 | 32% | 12% |
| Phosphorous | 18,525 | 1,636 | 19% | 4% |

*State allocations are expressed as annual amounts. One-twelfth of that allocation is an internal monthly benchmark for comparative purposes only.

WATER AND WASTEWATER DATA:

The following graphs are provided for review:

- Usable Urban Reservoir Water Storage
- Urban Water and Wastewater Flows versus Rainfall





MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: JENNIFER WHITAKER, DIRECTOR OF ENGINEERING &
MAINTENANCE**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: CIP PROJECTS REPORT

DATE: APRIL 23, 2024

This memorandum reports on the status of the following major Capital Projects as well as other significant operating, maintenance, and planning projects.

For the current CIP and additional project information, please visit: <https://www.rivanna.org/wp-content/uploads/2023/06/2024-2028-CIP-FINAL-DRAFT-1.pdf>

Summary

| | Project | Construction Start Date | Construction Completion Date |
|----|---|--------------------------------|-------------------------------------|
| 1 | Airport Rd. Water Pump Station and Piping | December 2021 | September 2024 |
| 2 | MC 5kV Electrical System Upgrades | May 2022 | December 2024 |
| 3 | Red Hill Water Treatment Plant Upgrades | September 2024 | March 2026 |
| 4 | South Fork Rivanna River Crossing | April 2025 | December 2026 |
| 5 | Central Water Line | April 2025 | December 2028 |
| 6 | MC Administration Building Renovation and Addition | April 2025 | December 2027 |
| 7 | RMR to OBWTP Raw Water Line and Pump Station | December 2024 | December 2028 |
| 8 | MC Building Upfits and Gravity Thickener Improvements | February 2025 | December 2026 |
| 9 | MC Structural and Concrete Rehabilitation | February 2025 | May 2027 |
| 10 | Crozet Pump Stations Rehabilitation | April 2025 | December 2026 |
| 11 | Crozet WTP GAC Expansion – Phase I | August 2025 | March 2027 |
| 12 | Beaver Creek Dam, Pump Station, and Piping | April 2026 | January 2029 |
| 13 | SFRR to RMR Pipeline, Intake, and Facilities | October 2025 | December 2030 |

Under Construction

1. Airport Road Water Pump Station and Piping
2. MC 5kV Electrical System Upgrades
3. Red Hill Water Treatment Plant Upgrades

Design and Bidding

- 4. South Fork Rivanna River Crossing
- 5. Central Water Line
- 6. MC Administration Building Renovation and Addition
- 7. RMR to OBWTP Raw Water Line and Pump Station
- 8. MC Building Upfits and Gravity Thickener Improvements
- 9. MC Structural and Concrete Rehabilitation
- 10. Crozet Pump Stations Rehabilitation
- 11. Crozet WTP GAC Expansion – Phase I
- 12. Beaver Creek Dam, Pump Station, and Piping
- 13. SFRR to RMR Pipeline, Intake, and Facilities

Planning and Studies

- 14. MCAWRRF Biogas Upgrades

Other Significant Projects

- 15. Urgent and Emergency Repairs
- 16. Security Enhancements

Under Construction

1. Airport Road Water Pump Station and Piping

| | |
|---|---|
| Design Engineer: | Short Elliot Hendrickson (SEH) |
| Construction Contractor: | Anderson Construction, Inc. (ACI) (Lynchburg, VA) |
| Construction Start: | December 2021 |
| Percent Complete: | 92% |
| Base Construction Contract + Change Order to Date = Current Value: | \$8,520,312 + \$205,908 = \$8,726,221 |
| Completion: | September 2024 |
| Budget: | \$10,000,000 |

Current Status: Water line installation, disinfection, and tie-ins to the existing system are complete. Paving and curb restoration along Berkmar Drive is proceeding. Pump station startup and testing is underway.

2. MCAWRRF 5kV Electrical System Upgrades

| | |
|---|---|
| Design Engineer: | Hazen and Sawyer (Hazen) |
| Construction Contractor: | Pyramid Electrical Contractors (Richmond, VA) |
| Construction Start: | May 2022 |
| Percent Complete: | 50% |
| Base Construction Contract + Change Order to Date = Current Value: | \$5,180,000 - \$848,368 = \$4,331,632 |
| Completion: | December 2024 |
| Budget: | \$5,635,000 |

Current Status: All major sitework including underground electrical ductbank, equipment pads, and curb and gutter replacements, is complete. Equipment has arrived at the site and low-voltage motor control center replacement is underway. The new 5kV switchgear and enclosure arrived in late March, and the Contractor is working on conduit installation within that enclosure.

3. Red Hill Water Treatment Plant Upgrades

| | |
|--------------------------|-----------------------------------|
| Design Engineer: | Short Elliot Hendrickson (SEH) |
| Construction Contractor: | Anderson Construction (Lynchburg) |
| Construction Start: | September 2024 |
| Percent Complete: | Award, 0% |
| Completion: | March 2026 |
| Budget: | \$2,050,000 |

Current Status: Negotiations with the low bid contractor on modifications to the current design are complete and a recommendation for award is included in this month's Board packet. This negotiation process was done to ensure all operational needs are met while incorporating cost savings measures where feasible. This project received partial grant funding from Albemarle County.

Design and Bidding

4. South Fork Rivanna River Crossing

| | |
|---------------------|-------------------------------------|
| Design Engineer: | Michael Baker International (Baker) |
| Project Start: | November 2020 |
| Project Status: | 90% Design |
| Construction Start: | April 2025 |
| Completion: | December 2026 |
| Budget: | \$7,300,000 |

Current Status: Easement acquisition work is on-going. An easement package for a small temporary easement along Woodburn Rd has been sent to the property owner and will be required to access the VDOT property next to the water treatment plant and river. A purchase agreement package was sent to VEPCO for purchase of a small parcel along Rio Mills Rd since they preferred to sell the property to us rather than grant an easement. The final outstanding easement is with Albemarle County across the Brookhill Park property along Rio Mills Rd and this easement will be presented to the Albemarle County Board of Supervisors in April 2024 and a public hearing will be held in May 2024. Once all easements are acquired, the Water Protection Ordinance requirements with the County can be finalized.

5. Central Water Line

| | |
|---------------------|-------------------------------------|
| Design Engineer: | Michael Baker International (Baker) |
| Project Start: | July 2021 |
| Project Status: | 90% Design |
| Construction Start: | April 2025 |
| Completion: | December 2028 |
| Budget: | \$47,000,000 |

Current Status: Completion of 90% construction documents was achieved in February. A workshop was held in mid-March to discuss the documents. The acquisition process for two private easements

has been initiated with our real estate consultant and RWSA will negotiate the third easement with UVA along Hereford Drive. Railroad permits were submitted in February 2024.

6. Moores Creek Administration Building Renovation and Addition

| | |
|---------------------|---------------|
| Design Engineer: | SEH |
| Project Start: | October 2022 |
| Project Status: | 60% Design |
| Construction Start: | April 2025 |
| Completion: | December 2027 |
| Budget: | \$20,000,000 |

Current Status: Design of the Exhibit space is underway.

7. Ragged Mountain Reservoir to Observatory Water Treatment Plant Raw Water Line and Pump Station

| | |
|---------------------|---------------|
| Design Engineer: | Kimley-Horn |
| Project Start: | August 2018 |
| Project Status: | 92% Design |
| Construction Start: | December 2024 |
| Completion: | December 2028 |
| Budget: | \$46,000,000 |

Current Status: Design documents are being advanced to the bid-ready level. Staff continue to work with UVA on the final remaining easement, and the Design Engineer is also preparing final permitting submissions to all necessary agencies.

8. MCAWRRE Building Upfits and Gravity Thickener Improvements

| | |
|---------------------|--------------------------------|
| Design Engineer: | Short Elliot Hendrickson (SEH) |
| Project Start: | March 2023 |
| Project Status: | 10% Design |
| Construction Start: | February 2025 |
| Completion: | December 2026 |
| Budget: | \$7,500,000 |

Current Status: Design is underway.

9. MCAWRRE Structural and Concrete Rehabilitation

| | |
|---------------------|--------------------------|
| Design Engineer: | Hazen and Sawyer (Hazen) |
| Project Start: | April 2023 |
| Project Status: | 5% Design |
| Construction Start: | February 2025 |
| Completion: | May 2027 |
| Budget: | \$11,300,000 |

Current Status: Preliminary engineering of the digester repairs continues.

10. Crozet Pump Stations Rehabilitation

| | |
|---------------------|----------------|
| Design Engineer: | Wiley Wilson |
| Project Start: | July 2023 |
| Project Status: | 90% Design |
| Construction Start: | April 2025 |
| Completion: | December 2026 |
| Budget: | \$10,350,000 |

Current Status: A value engineering workshop was completed last month. Wiley | Wilson is incorporating accepted recommendations into the 90% design documents.

11. Crozet GAC Expansion – Phase I

| | |
|---------------------|-------------|
| Design Engineer: | SEH |
| Project Start: | July 2023 |
| Project Status: | 5% Design |
| Construction Start: | August 2025 |
| Completion: | March 2027 |
| Budget: | \$6,550,000 |

Current Status: Preliminary design is underway.

12. Beaver Creek Dam, Pump Station and Piping Improvements

| | |
|---------------------|-------------------------------|
| Design Engineer: | Schnabel Engineering (Dam) |
| Design Engineer: | Hazen & Sawyer (Pump Station) |
| Project Start: | February 2018 |
| Project Status: | 25% Design |
| Construction Start: | April 2026 |
| Completion: | January 2029 |
| Budget: | \$47,000,000 |

Current Status: Design work is underway by Hazen for the new raw water pump station, intake, raw water main, and hypolimnetic oxygenation system, and by Schnabel Engineering for final design of the dam spillway upgrades, temporary detour, and spillway bridge. Geological investigation work for the dam design will begin in May.

13. SFRR to RMR Pipeline, Intake, and Facilities

| | |
|---------------------|--------------------------|
| Design Engineer: | Kimley Horn/SEH/Schnabel |
| Project Start: | July 2023 |
| Project Status: | 20% Design |
| Construction Start: | October 2025 |
| Completion: | December 2030 |
| Budget: | \$80,000,000 |

Current Status: Modifications to the RMR intake tower and perimeter clearing to allow for the 12-foot pool raise will be included in this project. A short section of the 36” raw water main has been constructed with the Victorian Heights housing development on Woodburn Road. Geotechnical borings for the new intake at SFRR were completed earlier this month, and the Design Engineer continues work on the overall concept for that facility. Installation of a nutrient analyzer at SFRR has been completed and is awaiting startup. This is the last step of the water quality study, and a final report is anticipated later this year.

Planning and Studies

14. MCAWRRF Biogas Upgrades

| | |
|------------------|-------------------------------------|
| Design Engineer: | SEH |
| Project Start: | October 2021 |
| Project Status: | Preliminary Engineering/Study (99%) |
| Completion: | December 2024 |
| Budget: | \$2,145,000 |

Current Status: This project now includes the Methane Sphere Rehabilitation, in addition to possible Cogeneration upgrades. RWSA and City staff continue to discuss all available options to reuse the biogas, with further investigation and analysis ongoing.

Other Significant Projects

15. Urgent and Emergency Repairs

Staff are currently working on several urgent repairs within the water and wastewater systems as listed below:

| Project No. | Project Description | Approx. Cost |
|-------------|--|--------------|
| 2023-01 | Finished Water System ARV Repairs | \$150,000 |
| 2024-01 | Rivanna Wastewater Pumping Station Flood | TBD |
| 2024-03 | MCAWRRF Secondary Clarifier #4 Equipment Failure | TBD |

- RWSA Finished Water ARV Repairs: RWSA Engineering staff recently met with Maintenance staff to identify a list of Air Release Valves (ARVs) that need to be repaired, replaced, or abandoned. Several of these locations will require assistance from RWSA On-Call Maintenance Contractors, due to the complexity of the sites (proximity to roadways, depth, etc.). The initial round will include six (6) sites, all along the South Rivanna Waterline, and will be completed starting in late Spring.
- Rivanna WWPS Flood: As discussed in the January and February Board of Directors Meeting and in this month’s board packet, the Rivanna Wastewater Pump Station experienced a significant flooding event on the evening of January 9th, 2024, that has rendered the facility inoperable. Installation of a 53 MGD bypass system has been completed, and the bypass has been setup to run automatically, with the capability to notify staff of potential issues as well. In addition, staff continues investigation into the root cause of the event on the dry well side of the facility and has also begun analyzing procurement needs for long-lead equipment items and general pump station rebuild efforts.

- MCAWRRF Secondary Clarifier #4 Equipment Failure:** On Sunday Evening, March 3rd, RWSA Wastewater Department staff identified that Secondary Clarifier #4 at MCAWRRF appeared to have a significant mechanical malfunction. Upon further review by staff, the rotating arm of the clarifier mechanism caught the stationary arm, wrapping it around the center of the clarifier. Staff mobilized MEB General Contractors under its On-Call Maintenance Construction Services Contract with Faulconer, and the clarifier was back up and operational with just one stationary arm on Friday, March 8th. Staff are waiting on the necessary parts to complete repairs to the clarifier arms, but in the meantime, the clarifier is operational should it be needed for wet weather events. The remaining repairs will be completed by the RWSA Maintenance Department.

16. Security Enhancements

| | |
|---|--------------------------------------|
| Design Engineer: | Hazen & Sawyer |
| Construction Contractor: | Security 101 (Richmond, VA) |
| Construction Start: | March 2020 |
| Percent Complete: | 80% (WA9), 50% (WA10) |
| Based Construction Contract + Change Orders to Date = Current Value: | \$718,428 (WA1) + \$834,742 (WA2-10) |
| Completion: | June 2024 (WA9), August 2024 (WA10) |
| Budget: | \$2,810,000 |

Current Status: WA9 will include installation of card access on all exterior doors at the South Rivanna WTP. Work began during the week of January 29th, with most of the device installation complete at this time. WA10 will include installation of card access on the exterior doors of the finished water pump station and “795” tank buildings in Scottsville, as part of the recent transfer in ownership of these facilities to RWSA. Materials have been procured for this work, and conduit work has been completed. Design of MCAWRRF entrance modifications with Hazen & Sawyer also continues, with discussions with Dominion Energy also ongoing, as relocation of existing electrical infrastructure will be required. This relocation process will need to be finalized prior to the project proceeding to the bidding phase. Relocation of existing electrical infrastructure will require coordination with the adjacent landowner, as the infrastructure must be completely relocated from the entrance area. As these discussions are ongoing, staff have submitted appropriate permitting documents with Albemarle County.



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: BETSY NEMETH, DIRECTOR OF ADMINISTRATION AND
COMMUNICATIONS**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: ADMINISTRATION AND COMMUNICATIONS REPORT

DATE: April 23, 2024

Human Resources

Annual turnover for the fiscal year beginning on July 1, 2023, is 12.0% through April 9, 2024.

We have also welcomed five new employees to the team this past month. They are Phillip Allen, Engineering Inspector 2; Tanner Wright, Assistant IS Administrator; Caleb Caton, Engineering Inspector 3; Stephanie Deal, Finance Manager; and Matthew Stumpf, Maintenance Mechanic 3.

We are pleased to report that we have offered four college students intern positions for the summer and all have accepted. They will start on May 24, 2024.

Safety

We completed Arc Flash training for a total of 43 employees on March 27th and March 28th.

Our Safety Manager, George Cheape, along with several other members of our team participated in an emergency response and coordination meeting with the Albemarle County Service Authority and Albemarle County.

The Centers for Disease Control (CDC) updated their recommendations for respiratory viruses to include COVID-19. The guidance now treats all respiratory viruses the same. Because of this change, we have suspended our COVID-19 Response and Infectious Disease Prevention Plan until further notice.

Community Outreach

We were pleased to have two groups of local students tour the Crozet Water Treatment Plant. One of the groups was a sixth-grade geology class from the Charlottesville Waldorf School. The other, smaller group included students from Crozet, working on a water and wastewater project.

We have several employees who have been volunteering with the Rivanna Conservation Alliance to do watershed testing with students from local schools throughout the area. Many thanks to Leah Beard, Jennifer Whitaker, and David Tungate for their work with our community.

We received numerous responses to our Request for Quote for work on a new website: RivannaWater.org. Once we choose a vendor, we will begin that work early this summer.

MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: JENNIFER WHITAKER, DIRECTOR OF ENGINEERING &
MAINTENANCE**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: WHOLESALE METERING REPORT FOR MARCH 2024

DATE: APRIL 23, 2024

The monthly and average daily Urban water system usages by the City and the ACSA for March 2024 were as follows:

| | <i>Month</i> | <i>Daily Average</i> | |
|---------------------------|--------------------|----------------------|--------------|
| City Usage (gal) | 129,930,226 | 4,191,298 | 48.7% |
| ACSA Usage (gal) | 136,748,468 | 4,411,241 | 51.3% |
| <i>Total (gal)</i> | 266,678,694 | 8,602,539 | |

The *RWSA Wholesale Metering Administrative and Implementation Policy* requires that water use be measured based upon the annual average daily water demand of the City and ACSA over the trailing twelve (12) consecutive month period. The *Water Cost Allocation Agreement (2012)* established a maximum water allocation for each party. If the annual average water usage of either party exceeds this value, a financial true-up would be required for the debt service charges related to the Ragged Mountain Dam and the SRR-RMR Pipeline projects. Below are graphs showing the calculated monthly water usage by each party, the trailing twelve-month average (extended back to April 2023), and that usage relative to the maximum allocation for each party (6.71 MGD for the City and 11.99 MGD for ACSA). Completed in 2019 for a cost of about \$3.2 M, our Wholesale Metering Program consists of 25 remote meter locations around the City boundary and 3 finished water flow meters at treatment plants.

Figure 1: City of Charlottesville Monthly Water Usage and Allocation

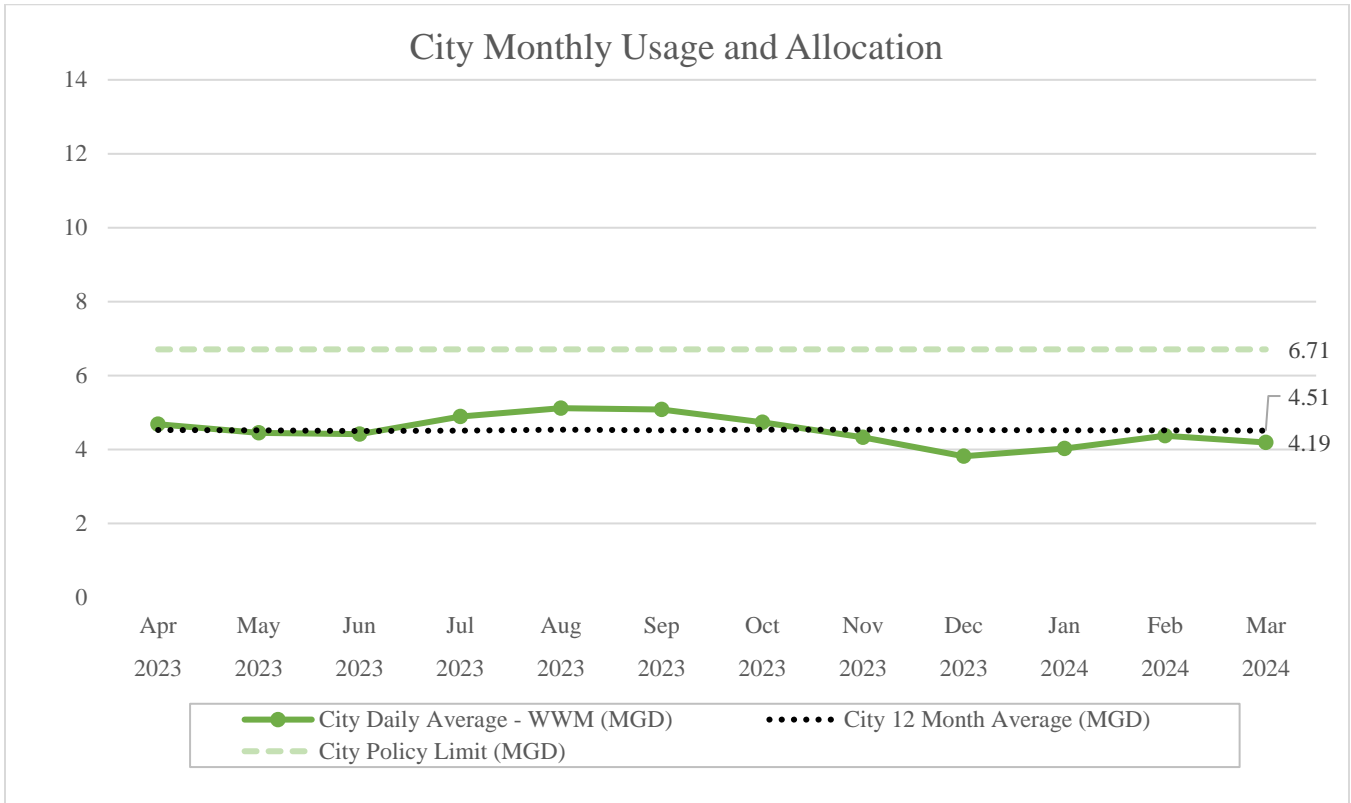
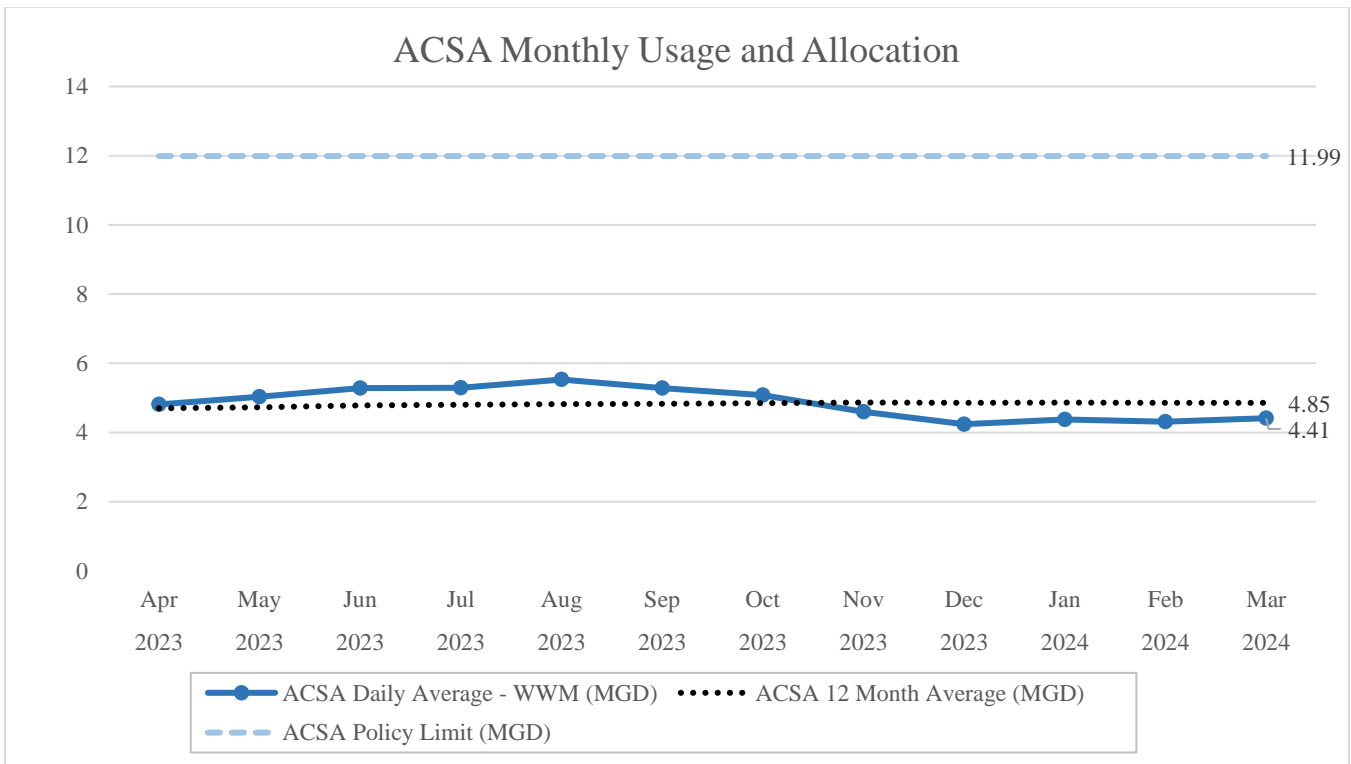
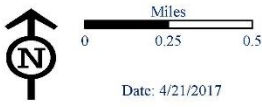


Figure 2: Albemarle County Service Authority Monthly Water Usage and Allocation



Meter Locations for the Wholesale Water Metering Project



695 Moores Creek Lane
Charlottesville, VA 22902
p.434-977-2970
www.rivanna.org
www.rivannagis.org

| Meter Site Locations - WWMP | 08, Franklin St / Carlton Ave / Broadway St | 16, Ricky Rd / Barracks Rd | 23, Greenbrier Dr / Rio Rd | 30, Darden Towle Park |
|-----------------------------|---|-----------------------------------|-----------------------------|-----------------------|
| 01, Pepsi Place | 09, Moores Creek Ln | 17, Ricky Rd (near Wayne Ave) | 24, Greenbrier Ter | 31, Stribling Ave |
| 02, Michael Pl / Wilson Ct | 11, Avon St | 18, North Berkshire Rd | 25, University Heights Apts | 32, Fontaine Ave |
| 03, Wilder Dr | 12, Loma Ln / Harris Rd | 19, Hydraulic Rd / Ingleswood Dr | 26, Seminole Trl | |
| 06, Long St / Rver Rd | 14, Old Lynchburg Rd | 20, Trader Joes | 28, Rio Rd / Melbourne Rd | |
| | 15, Ivy Rd / Colonnade Dr | 22, Rio Rd @ Church of Our Savior | 29, Pen Park Ln | |



**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: JENNIFER WHITAKER, DIRECTOR OF ENGINEERING &
MAINTENANCE**

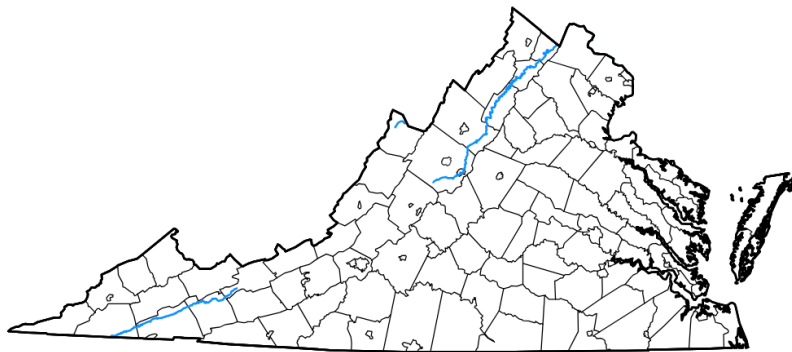
REVIEWED: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: DROUGHT MONITORING REPORT

DATE: APRIL 23, 2024

State and Federal Drought Monitoring, as of April 9, 2024:

- U.S. Drought Monitoring Report: Indicates there are no drought conditions in Albemarle County or Virginia.



Map released: Thurs. April 4, 2024

Data valid: April 2, 2024 at 8 a.m. EDT

Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

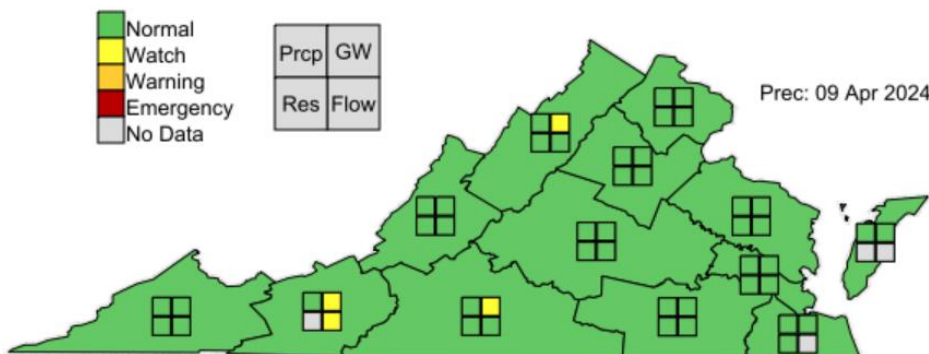
United States and Puerto Rico Author(s):

[Brad Pugh](#), NOAA/CPC

Pacific Islands and Virgin Islands Author(s):

[Anthony Artusa](#), NOAA/NWS/NCEP/CPC

- VDEQ Drought Status Report: Our region is listed as being in a “Normal” level for all indicators.



Precipitation & Stream Flows

| Charlottesville Precipitation | | | | | |
|--------------------------------------|-----------|-------------------|--------------|--------------------|-----------------------------|
| Year | Month | Observed (in.) | Normal (in.) | Departure (in.) | Comparison to Normal (%) |
| 2021 | Jan - Dec | 33.82 | 41.61 | -7.79 | -19 |
| 2022 | Jan - Dec | 43.53 | 41.61 | +1.92 | +5 |
| 2023 | Jan - Dec | 26.95 | 41.61 | -15.98 | -35 |
| 2024 | Jan - Mar | 10.46 | 8.85 | +1.61 | +18 |

Source: National Weather Service, National Climatic Data Center, Climate Summary for Charlottesville, Charlottesville Albemarle Airport station

| USGS Stream Gaging Station Near the Urban Area (April 3-9) | | | | |
|---|--------------------------------|-------|-------------------------|-------|
| Gage Name | Rolling 7-day Avg. Stream Flow | | Median Daily Streamflow | |
| | cfs | mgd | cfs | mgd |
| Mechums River | 123.0 | 79.5 | 85 | 54.9 |
| Moormans River | 108.1 | 69.8 | 87 | 56.2 |
| NF Rivanna River | 149.3 | 96.5 | 106 | 68.5 |
| SF Rivanna River | 320.0 | 206.8 | 256 | 165.5 |

Median daily flow: March 13 for the period of record (approx. 30 - 80 years)

Status of Reservoirs (as of April 10, 2024)

- Urban Reservoirs are 100% of Total Useable Capacity
- Beaver Creek Reservoir (Crozet) is 100% of Total Useable Capacity
- Totier Creek Reservoir (Scottsville) is 100% of Total Useable Capacity

Drought History in Central Virginia

- Severe: 1930, 1966, 1982, 2002
- Longest: May 2007 - April 2009; 103 weeks
- Significant: every 10 -15 years
- Drought of Record: 2001- 2002; 18 months



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: JENNIFER A. WHITAKER, DIRECTOR OF ENGINEERING AND
MAINTENANCE**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: APPROVAL TO AMEND PROFESSIONAL ENGINEERING
SERVICES WORK AUTHORIZATION – MOORES CREEK
ADMINISTRATION BUILDING RENOVATION AND ADDITION
PROJECT– SHORT ELLIOT HENDRICKSON INC.**

DATE: APRIL 23, 2024

This request is to authorize the Executive Director to execute an Amendment to Work Authorization No. 1 with Short Elliot Hendrickson Inc. (SEH) and its subconsultants totaling \$814,434 to provide additional design and construction administration services to provide an education Exhibit space and temporary staff offices for the Administration Building Renovation and Addition project.

Background

RWSA currently has its administrative headquarters in two buildings on the grounds of the Moores Creek Advanced Water Resource Recovery Facility. The two-story, 12,260 SF Administration Building was constructed in the early 1980's and houses offices, IT server space, meeting space and a full-service laboratory. The second building is a series of four trailers installed between 2003 and 2010 that house the Engineering department. Based on the growth of our programs and the population to be served in our community, there is a need to provide about 20,000 SF of additional space to include an Exhibit and Community Engagement Area, office and meeting spaces for the Finance, IT, Purchasing, Human Resources, Executive Director and Administrative staff, along with relocation of the Engineering group into the building to eliminate the trailers. The design amendment will provide an approximate additional 1,500 square feet of exhibit space to highlight RWSA's mission and water treatment processes, while continuing to modernize the IT server and workrooms, laboratory, and board meeting room. This project was coordinated with the MCAWRRF Master Plan to ensure there would be no conflicts with future expansions of our infrastructure, as the building addition will extend into the lower parking area of the Administration Building.

The original Work Authorization was negotiated with SEH for design, bidding and construction phase services including a limited scope of work to integrate an educational space in the facility. That authorization was approved by the Board of Directors at the August 2022 Board meeting. After more detailed investigation and discussion of possible Exhibit space designs, including a

visit to the Exhibit space at the Loudoun Water Authority, staff requested additional design and construction services which included a subconsultant who specialized in Exhibit spaces. The scope of work was also increased to design a temporary on-site trailer plan for staff to use during the renovation, rather than renting space for staff. To account for the additional services requested, Engineering staff negotiated amendment #2 to the initial work authorization to include the following:

- Building and site plan revisions for approximately 1,500 sq. ft of exhibit space, including revised schematic design, conceptual elevations, and assistance through the Albemarle County approval process.
- Temporary office and lab trailer design for the Moores Creek site, including data, power, water, and sewer connections.
- Temporary relocation of IT infrastructure on Moores Creek site.
- Full design development, construction administration, and commissioning of an Exhibit space integrated with the planned administrative space additions and renovations. Additional services will include acoustic analysis as well as fabrication and media content oversight through construction for the Exhibit space.


The original Board authorization for the design and construction administration services totaled \$1,053,688 with a 25% contingency for any potential future amendments needed to complete the work. Amendment #1 totaled \$113,129 for a preliminary assessment of the exhibit space and commissioning of the HVAC system. The requested Amendment #2 totals \$814,434, which exceeds the 25% design contingency authorized by the Board.


Board Action Requested:

Authorize the Executive Director to execute Amendment No. 2 to Work Authorization No. 1 totaling \$814,434 with Short Elliot Hendrickson Inc. for additional professional services to complete the Administration Building Addition and Renovation project, and any further amendments needed to complete the tasks identified above, not to exceed 10% of the revised total contract amount of \$1,981,251, provided the resulting total cost is within the approved CIP project budget.



695 Moores Creek Lane | Charlottesville, Virginia 22902-9016

434.977.2970 

434.293.8858 

www.rivanna.org 

MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: JENNIFER WHITAKER, DIRECTOR OF ENGINEERING AND
MAINTENANCE**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: APPROVAL OF CONSTRUCTION CONTRACT AWARD AND
AMENDMENT TO THE FY 24 CAPITAL IMPROVEMENT
PLAN; RED HILL WATER TREATMENT PLANT UPGRADES –
ANDERSON CONSTRUCTION, INC.**

DATE: APRIL 23, 2024

This recommendation is to award a construction contract to Anderson Construction totaling \$1,742,375 to complete upgrades at the Red Hill Water Treatment Plant (RHWTP), and to increase the FY 2024 Capital Budget by \$1,240,000 to a total project budget of \$2,050,000.

Background:

The RHWTP consists of a submersible well pump and hydropneumatic tank system that historically was operated by the Albemarle County Service Authority. RWSA assumed operation of the facility in 2018. The plant receives its water supply from a well and provides onsite treatment of potable drinking water, at a capacity of 1,823 gallons per day (GPD), to 15 customers along Red Hill Road and Red Hill Elementary School. The RHWTP provides treated well water to the distribution system from its 10,000-gallon hydropneumatics tank, which is attached to a small operations building that houses all chemicals, sampling, and analysis equipment. Recommendations from our Condition Assessment Report dated March 22, 2022 included an expansion of the existing structure to accommodate chemical separation, improved chemical dosing control, and security and safety improvements. Additionally, in accordance with RWSA's mission to provide high-quality water treatment, granular activated carbon (GAC) treatment is being added to the plant treatment process.

This construction project was advertised for bids on October 3, 2023 (RFB No. 403). As the original bid opening date neared, no bids had been received. Staff extended the bid date and contacted potential bidders to make them aware of the project. One bid of \$2,067,000 by Anderson Construction, Inc. from Lynchburg, VA. was received on the extended bid opening day of December 21, 2023. Since this bid value exceeded the total Capital Budget for the project, negotiations to reduce the scope of work were initiated with the contractor. Through a review of the contract documents and the costs associated with the various project elements, it was determined

that modifications could be made to several design elements, including the building expansion construction materials and type, that would result in significant cost savings while continuing to provide the operational improvements of the original design. Based on the revisions, Anderson Construction and staff were able to identify a cost reduction of \$324,625. It was determined that the resulting cost was competitive and reasonable in this challenging construction market, particularly for small projects. After reviewing the bid and negotiation documents, our design engineering consultant, Short-Elliott-Hendrickson, Inc. (SEH), determined the bidder was responsive and responsible and recommended award of the contract to Anderson Construction, Inc.

The current Capital Improvement Plan (CIP) budget for this project is \$810,000. Based on the bid received and the resulting cost reductions that were negotiated, SEH and staff believe the pricing provided reflects current market value for the work. Incorporating Anderson Construction Inc.'s modified bid value of \$1,742,375 represents an increase to the CIP Budget of \$1,240,000 and a total revised project budget of \$2,050,000.

Board Action Requested:

1. Authorize the Executive Director to execute a construction contract with Anderson Construction, Inc. for \$1,742,375 for the Red Hill WTP Upgrades Project, and any additional change orders not to exceed 10% of the original contract amount.
2. Amend the FY 2024 Capital Improvement Plan to increase the project budget by \$1,240,000 to a total project budget of \$2,050,000.



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: LONNIE WOOD, DIRECTOR OF FINANCE
AND INFORMATION TECHNOLOGY**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: APPROVAL OF REIMBURSEMENT RESOLUTION –
RIVANNA PUMP STATION REHABILITATION**

DATE: APRIL 23, 2024

This request is to approve a “RESOLUTION OF OFFICIAL INTENT TO REIMBURSE EXPENDITURES WITH PROCEEDS OF A BORROWING” in an amount not to exceed \$22 million. This resolution does not authorize a bond issue but is a required approval by the Board which allows the Authority to draw bond proceeds for any costs associated with the project that occurred in the past 18 months. This is a normal step in the process of issuing tax exempt debt, and one that the Authority routinely takes yearly action on for the entire CIP.

Background:

The investigation and related insurance claim for the Rivanna Pump Station malfunctioning is still ongoing. Ultimately the repair will need to be funded through a combination of reserves, insurance proceeds and bonded debt.

The repairs to this facility are to bring the asset back into operation, which given the size and scope of the work that has been performed and will most likely be needed, will most likely be a capital project to be included in the Authorities CIP. Once better information is known on the estimated costs and a determination has been completed for the insurance proceeds eligible for reimbursement of costs incurred, a capital project will be presented to the Board. This will most likely be presented to the Board at the regular June or July board meeting. Until that time, and to ensure that we can reimburse the Authority reserves that are currently funding these costs, a reimbursement resolution is needed from the Board - (formally - RESOLUTION OF OFFICIAL INTENT TO REIMBURSE EXPENDITURES WITH PROCEEDS OF A BORROWING.) The current cost estimate for the project is \$22 - \$25 million, which is what the resolution was prepared as the not to exceed amount.

This resolution does not authorize a bond issue currently. In the event of a bond issue to fund the costs of this project, the Authority is intending to use the funds for previously paid costs. It is a required approval by the Board that allows the Authority to draw bond proceeds for any costs associated with the project that occurred in the past 18 months prior – the max. Section 4. explains that this restriction is related to IRS Treasury regulations that cover tax exempt revenue bonds. This is a normal step in the process of issuing tax exempt debt, and one that the Authority routinely takes yearly action on for the entire CIP.

Board Action Requested:

Approve the attached *Resolution of Official Intent to Reimburse Expenditures with Proceeds of a Borrowing*.

Attachment

**RESOLUTION OF OFFICIAL INTENT TO REIMBURSE
EXPENDITURES WITH PROCEEDS OF A BORROWING**

WHEREAS, Rivanna Water and Sewer Authority (the “Borrower”) intends to acquire, construct and equip improvements to its water and sewer system, including without limitation capital repairs and replacements to its Rivanna Pumping Station (collectively, the “Project”); and

WHEREAS, plans for the Project have advanced and the Borrower expects to advance its own funds to pay expenditures related to the Project (the “Expenditures”) prior to incurring indebtedness and to receive reimbursement for all or a portion of such Expenditures from proceeds of tax-exempt bonds or taxable bonds, or both;

BE IT RESOLVED BY THE RIVANNA WATER AND SEWER AUTHORITY:

1. The Borrower intends to utilize the proceeds of tax-exempt bonds (the “Bonds”) or to incur other debt, in an amount not currently expected to exceed \$22,000,000 to pay or reimburse costs of the Project.

2. The Borrower intends that the proceeds of the Bonds be used to reimburse the Borrower for Expenditures with respect to the Project made on or after the date that is no more than 60 days prior to the date of this resolution. As of this date, the Borrower reasonably expects that it will reimburse the Expenditures with the proceeds of the Bonds or other debt.

3. Each Expenditure was or will be, unless otherwise approved by bond counsel, either (a) of a type properly chargeable to a capital account under general federal income tax principles (determined in each case as of the date of the Expenditure), (b) a cost of issuance with respect to the Bonds, (c) a nonrecurring item that is not customarily payable from current revenues, or (d) a grant to a party that is not related to or an agent of the Borrower so long as such grant does not impose any obligation or condition (directly or indirectly) to repay any amount to or for the benefit of the Borrower.

4. The Borrower intends to make a reimbursement allocation, which is a written allocation by the Borrower that evidences the Borrower’s use of proceeds of the Bonds to reimburse an Expenditure, no later than 18 months after *the later of* (a) the date on which the Expenditure is paid or (b) the Project is placed in service or abandoned, but in no event more than three years after the date on which the Expenditure is paid; provided, however, that such timing limitations are subject to the applicability of (x) Treasury Regulations Section 1.150-2(d)(2)(ii) related to expenditures by “small issuers” (based on the year of issuance and not the year of expenditure), and (y) Treasury Regulations Section 1.150-(d)(2)(iii) related to expenditures for “long-term” construction projects requiring at least five years to complete.

5. The Borrower recognizes that the limitations set forth in the foregoing paragraphs 2 and 4 may not apply to certain “preliminary expenditures,” costs of issuance, and certain de minimis amounts.

6. The Borrower intends that the adoption of this resolution confirms the “official intent” within the meaning of Treasury Regulations Section 1.150-2 promulgated under the Internal Revenue Code of 1986, as amended.

7. This resolution shall take effect immediately upon its passage.

*The undersigned Secretary of the Rivanna Water and Sewer Authority hereby certifies that the foregoing is a true and correct copy of the resolutions adopted by the Board of Directors of the Authority at the regular meeting of the Board of Directors held on **April 23, 2024**.*

Name: Jeff Richardson

Title: Secretary, Rivanna Water and Sewer Authority

Succession & Strategic Planning

~ Five-Year Organizational & Staffing Review ~

Presented to the Board of Directors
by Bill Mawyer, Executive Director
April 23, 2024



Succession Planning Process

Objective



```
graph TD; A[Objective] --> B[Continue organizational growth and development of the Authorities by]; B --> C[Recognizing, developing and retaining leadership talent and]; C --> D[Strategically planning for our future];
```

The diagram illustrates a four-step succession planning process. It begins with an orange box labeled 'Objective'. This leads to a yellow box: 'Continue organizational growth and development of the Authorities by'. The next step is a grey box: 'Recognizing, developing and retaining leadership talent and'. The final step is a blue box: 'Strategically planning for our future'. Each step is connected to the next by a downward-pointing arrow of the same color as the box above it.

Continue organizational growth and development of the Authorities by

Recognizing, developing and retaining leadership talent and

Strategically planning for our future



Our Leadership Development Program will include:

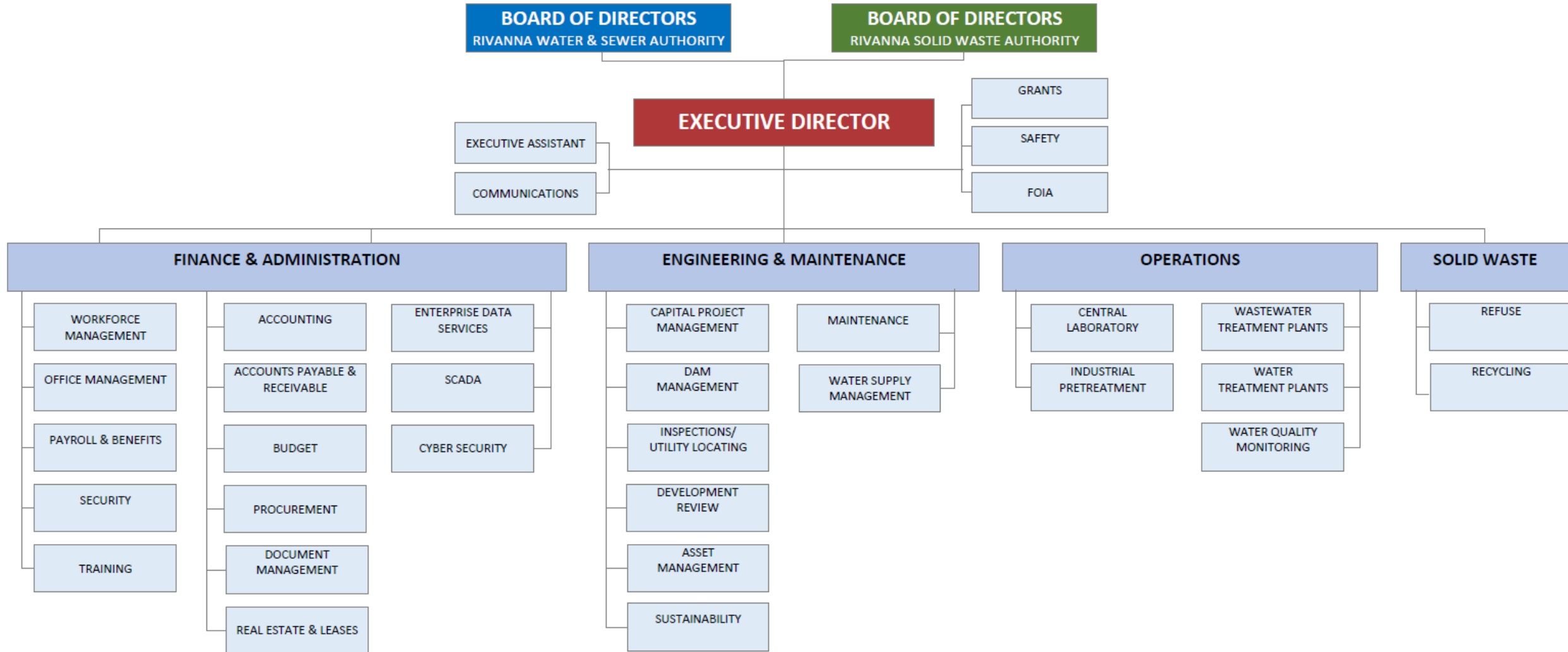
- Training opportunities thru PVCC, UVA/Darden, VRSA, and other on-line resources
 - PVCC recently provided *Presentation Skills* training for the group
- Practical experience working with Senior Managers to gain knowledge and skills by:
 - developing CIP and Operating budgets
 - making presentations to the Board
 - meeting with regional partners and organizations
 - cross-training with other Rivanna departments
 - transferring institutional knowledge from potential retirees

RIVANNA AUTHORITIES

Organization Structure by Function

FY 2022-2023

January 20, 2023

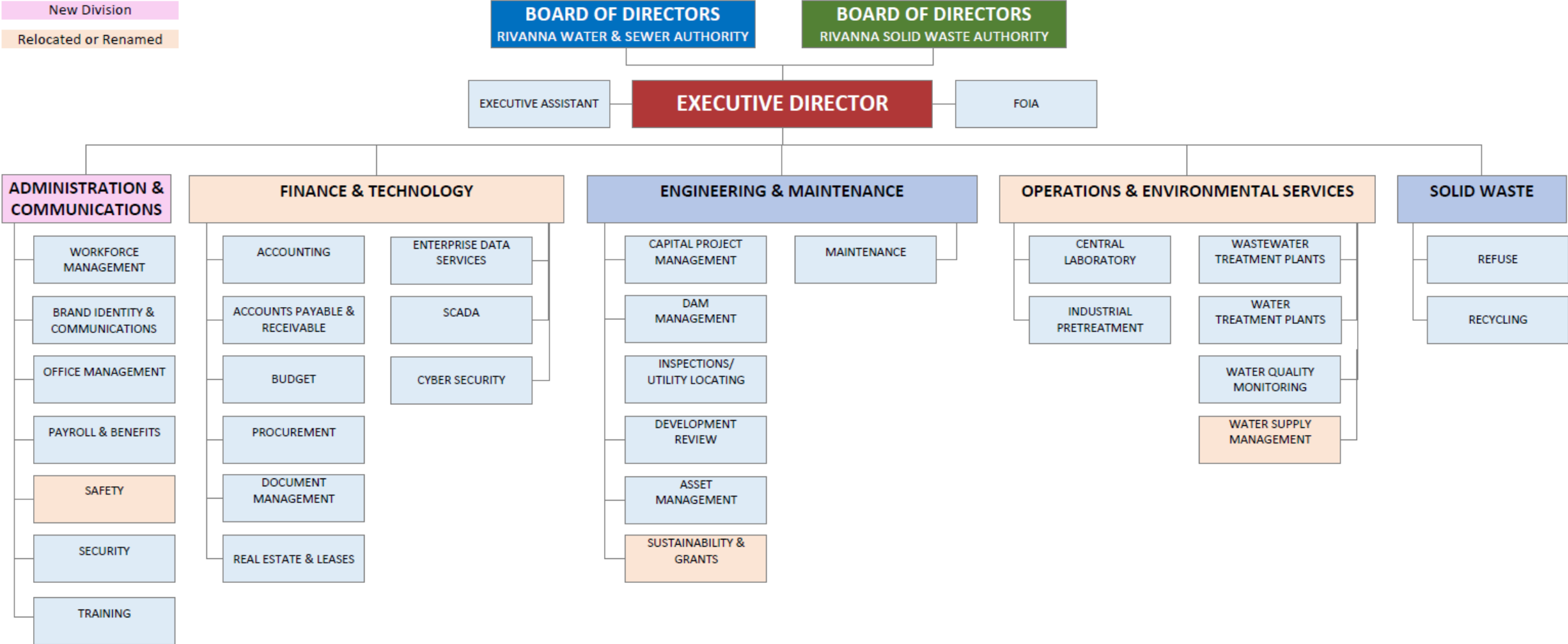


RIVANNA AUTHORITIES

Succession Management Plan for FY 2023 - 2024

January 20, 2023

New Division
Relocated or Renamed



RIVANNA AUTHORITIES

Organization Structure by Position

FY 2022 - 2023

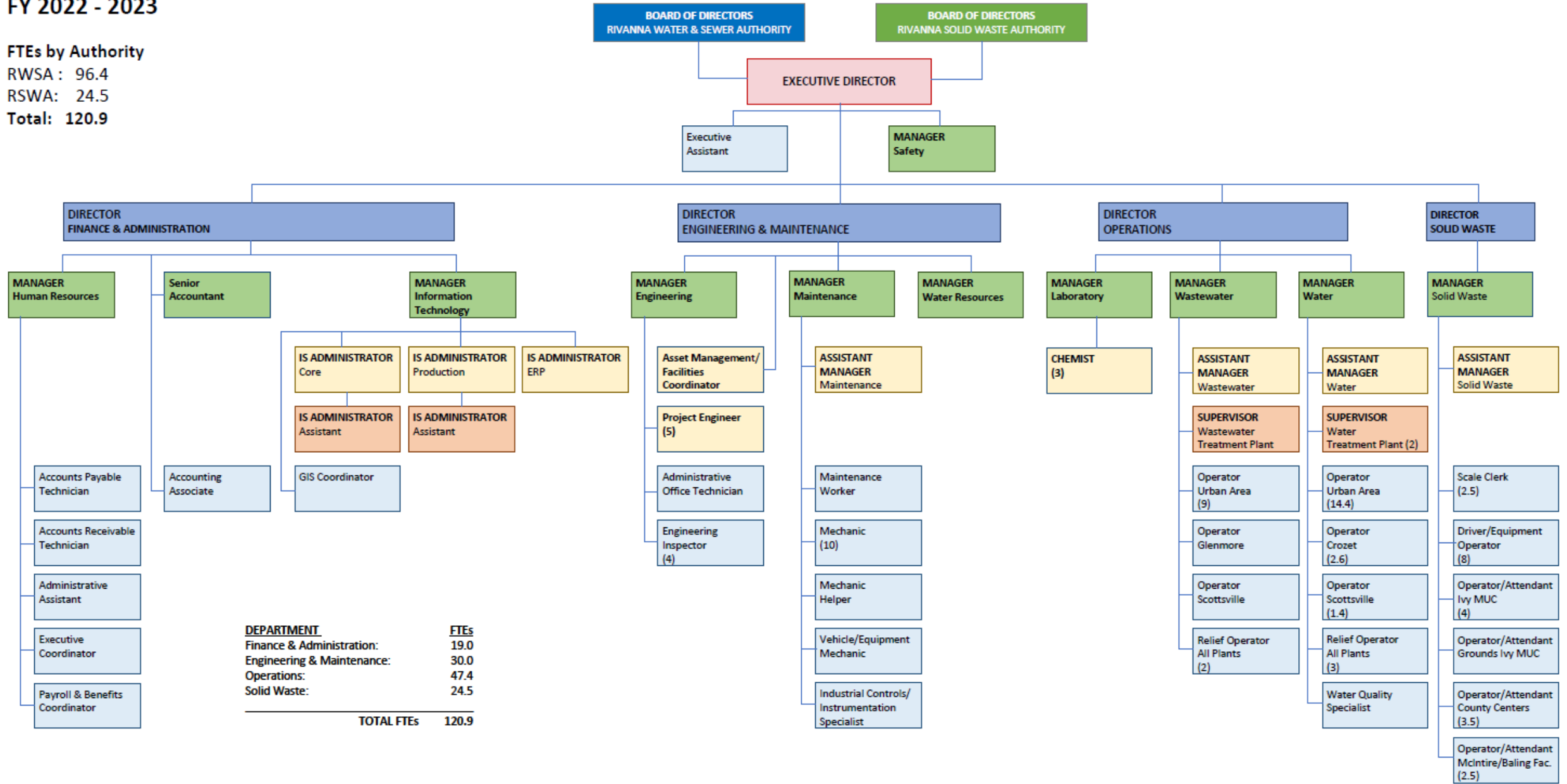
January 20, 2023

FTEs by Authority

RWSA : 96.4

RSWA: 24.5

Total: 120.9



RIVANNA AUTHORITIES

Succession Management Plan for FY 2023 - 2024

January 20, 2023

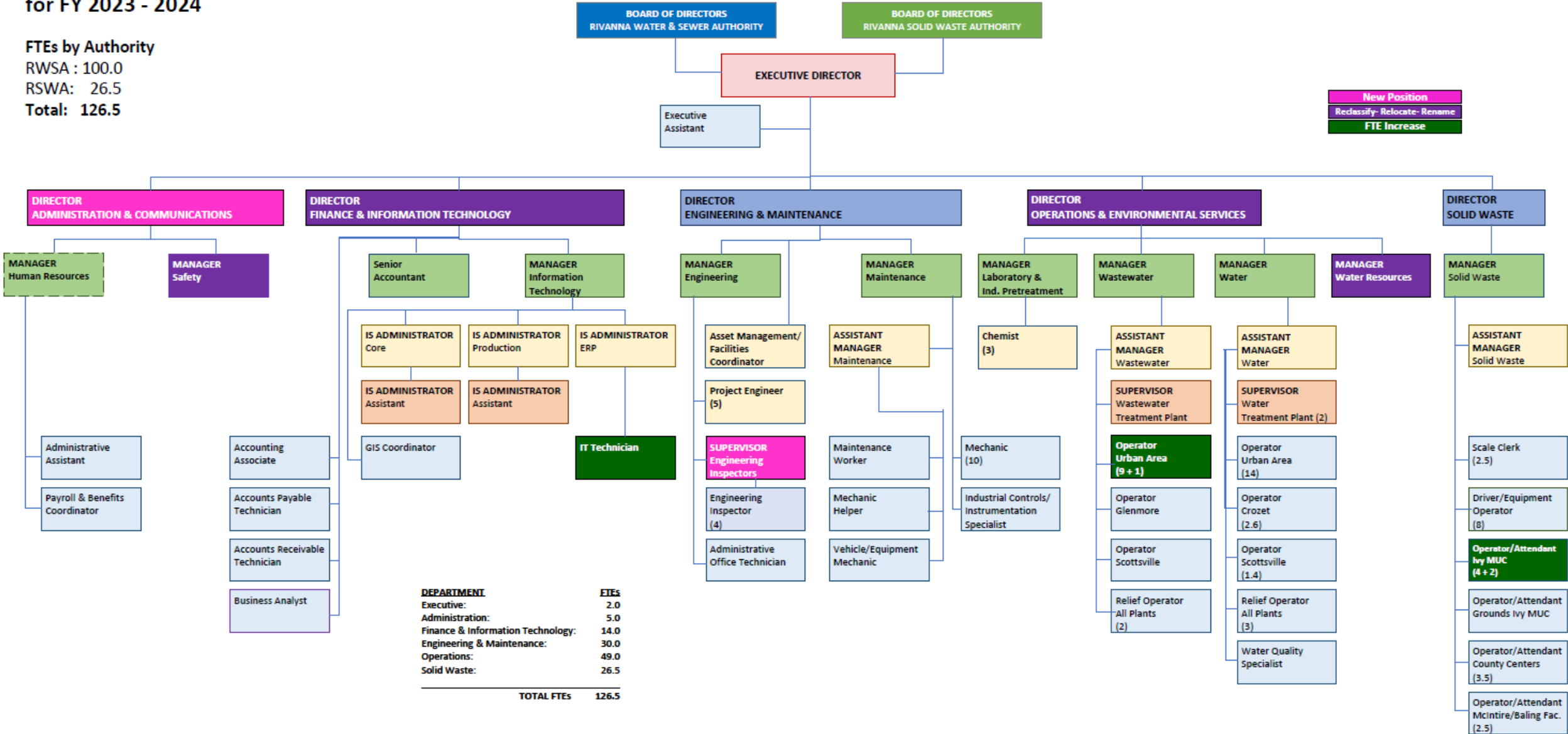
FTEs by Authority

RWSA : 100.0

RSWA: 26.5

Total: 126.5

| |
|------------------------------|
| New Position |
| Reclassify- Relocate- Rename |
| FTE Increase |



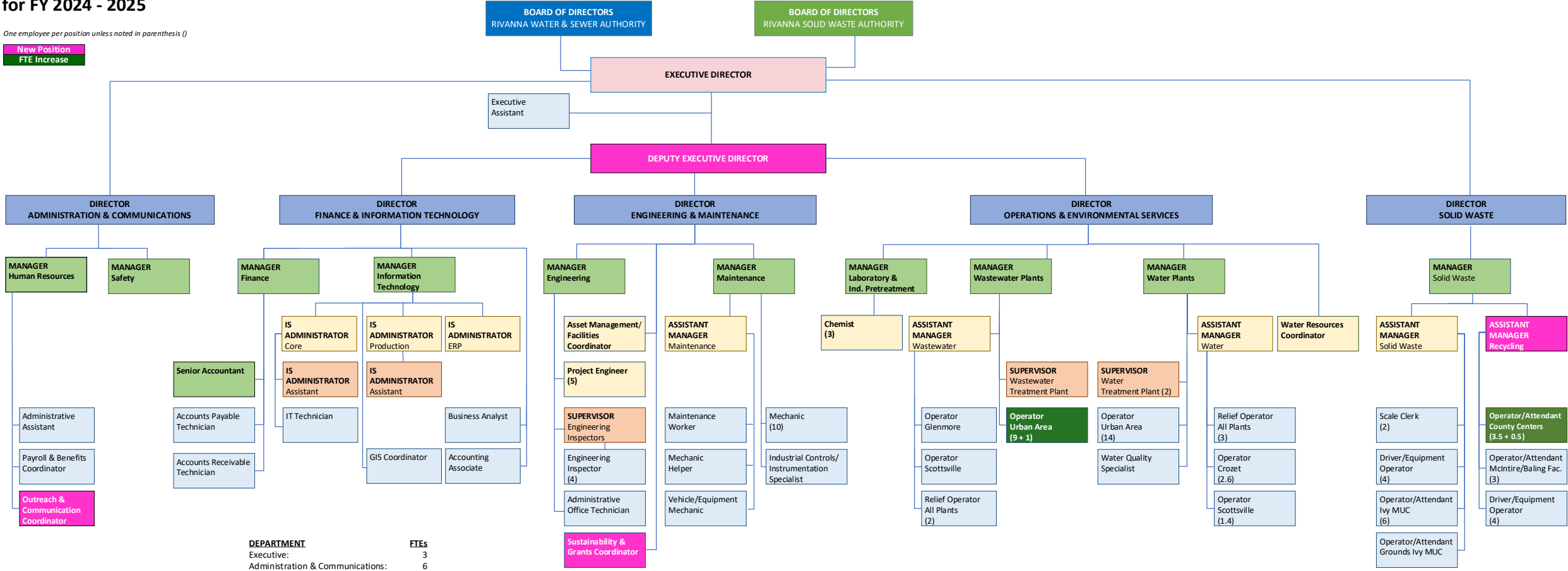
| DEPARTMENT | FTEs |
|-----------------------------------|--------------|
| Executive: | 2.0 |
| Administration: | 5.0 |
| Finance & Information Technology: | 14.0 |
| Engineering & Maintenance: | 30.0 |
| Operations: | 49.0 |
| Solid Waste: | 26.5 |
| TOTAL FTEs | 126.5 |

RIVANNA AUTHORITIES Succession Management & Organizational Development Plan for FY 2024 - 2025

April 23, 2024

One employee per position unless noted in parenthesis ()

New Position
FTE Increase



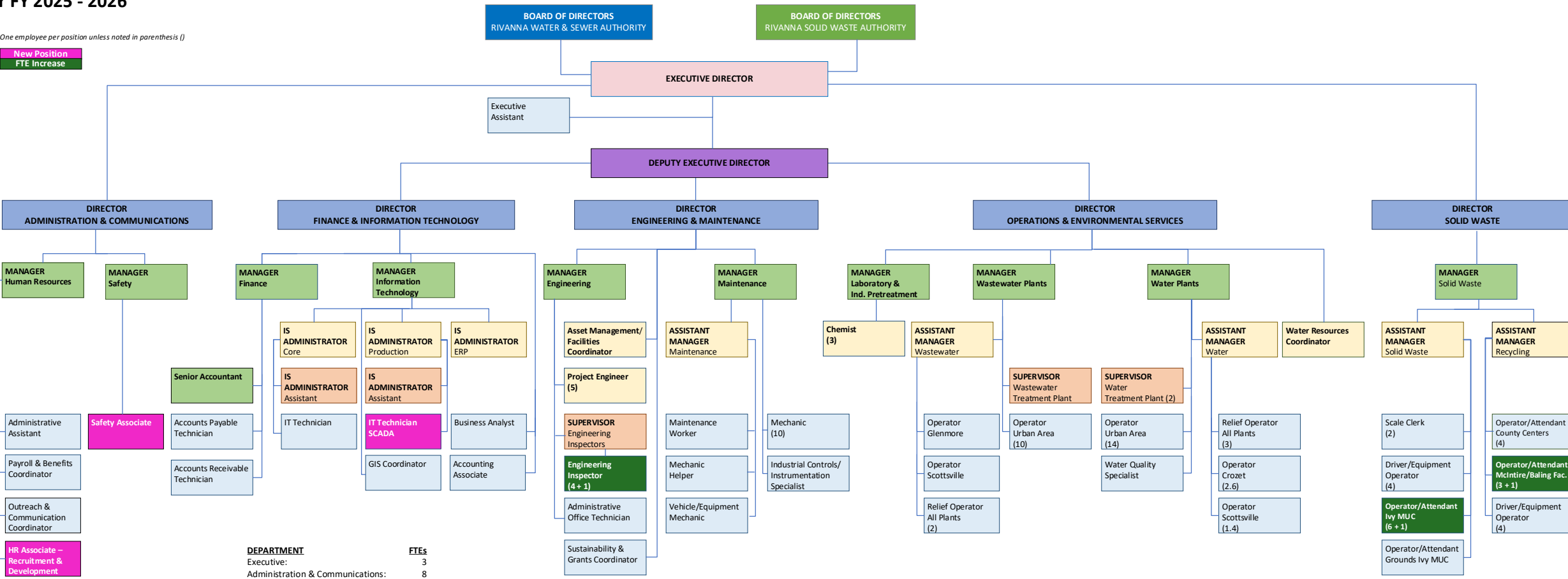
| DEPARTMENT | FTEs |
|--------------------------------------|------------|
| Executive: | 3 |
| Administration & Communications: | 6 |
| Finance & Information Technology: | 15 |
| Engineering & Maintenance: | 31 |
| Operations & Environmental Services: | 49 |
| Solid Waste: | 28 |
| TOTAL FTEs | 132 |

RIVANNA AUTHORITIES Succession Management & Organizational Development Plan for FY 2025 - 2026

April 23, 2024

One employee per position unless noted in parenthesis ()

New Position
FTE Increase

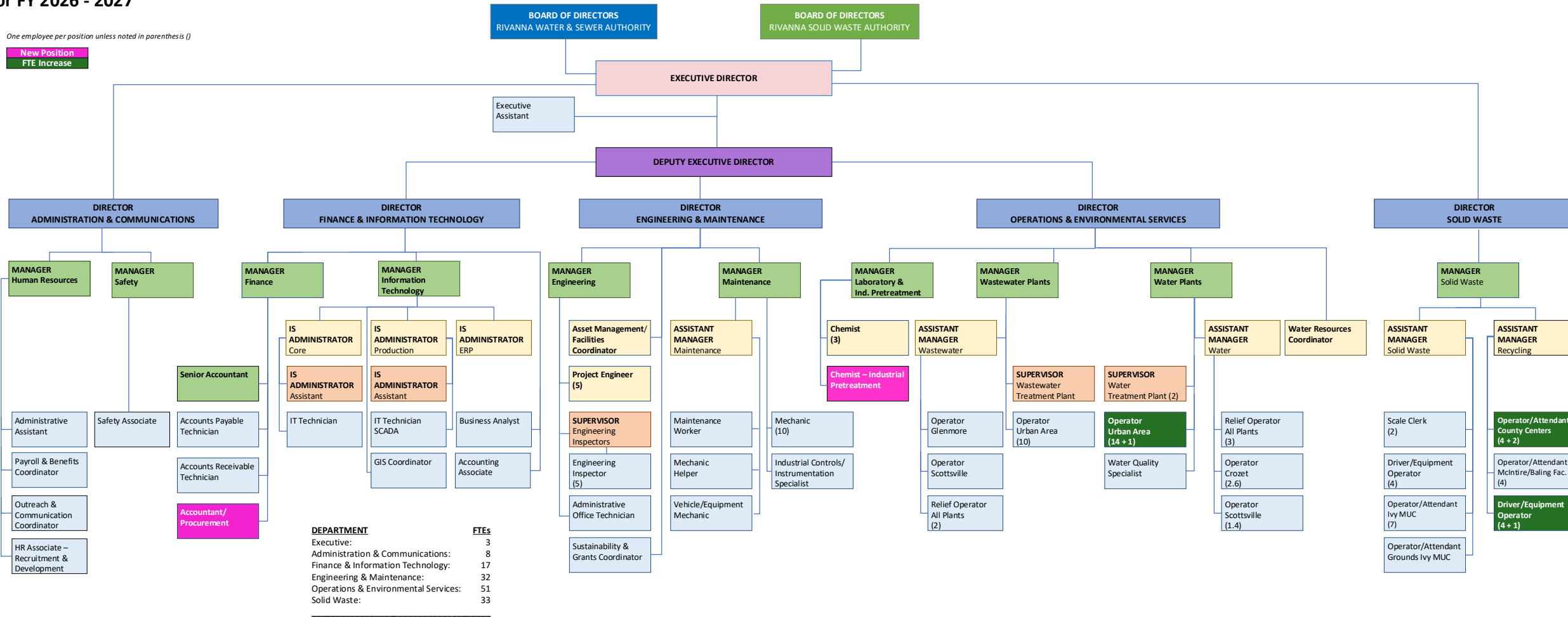


| DEPARTMENT | FTEs |
|--------------------------------------|------------|
| Executive: | 3 |
| Administration & Communications: | 8 |
| Finance & Information Technology: | 16 |
| Engineering & Maintenance: | 32 |
| Operations & Environmental Services: | 49 |
| Solid Waste: | 30 |
| TOTAL FTEs | 138 |

RIVANNA AUTHORITIES Succession Management & Organizational Development Plan for FY 2026 - 2027

One employee per position unless noted in parenthesis ()

New Position
FTE Increase

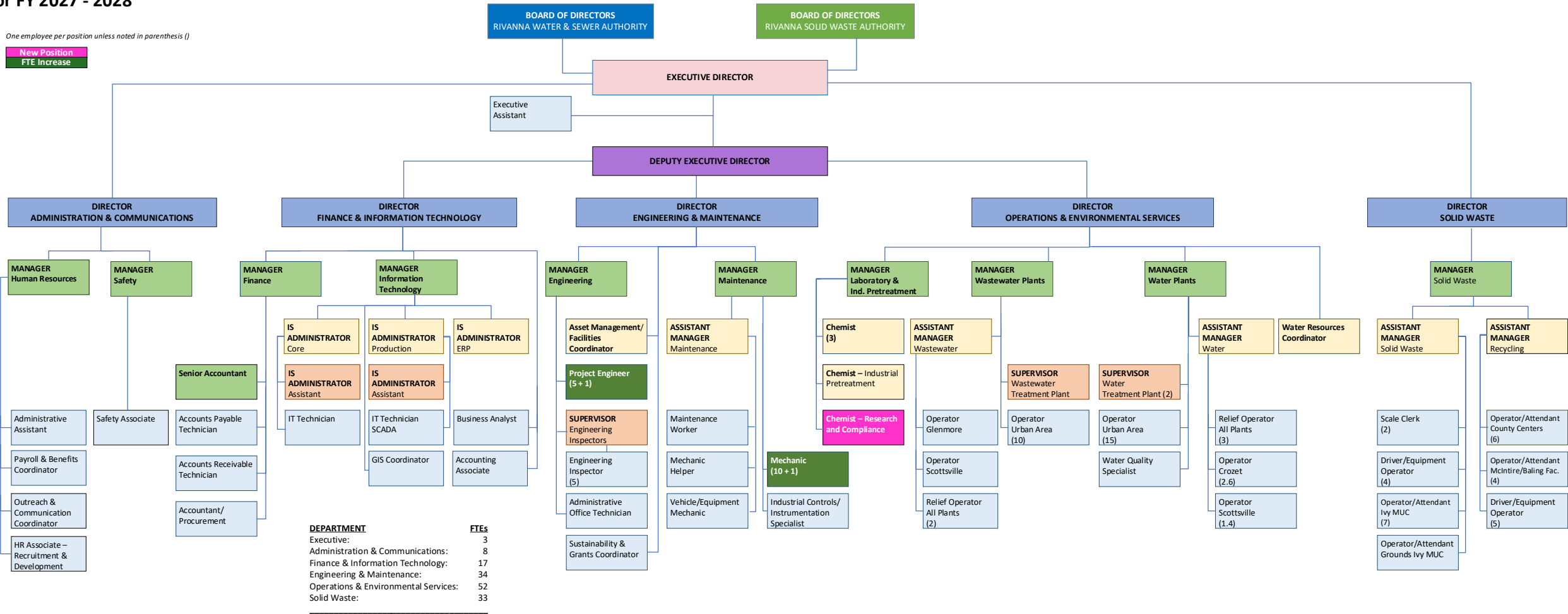


| DEPARTMENT | FTEs |
|--------------------------------------|------------|
| Executive: | 3 |
| Administration & Communications: | 8 |
| Finance & Information Technology: | 17 |
| Engineering & Maintenance: | 32 |
| Operations & Environmental Services: | 51 |
| Solid Waste: | 33 |
| TOTAL FTEs | 144 |

RIVANNA AUTHORITIES Succession Management & Organizational Development Plan for FY 2027 - 2028

One employee per position unless noted in parenthesis ()

New Position
FTE Increase



| DEPARTMENT | FTEs |
|--------------------------------------|------------|
| Executive: | 3 |
| Administration & Communications: | 8 |
| Finance & Information Technology: | 17 |
| Engineering & Maintenance: | 34 |
| Operations & Environmental Services: | 52 |
| Solid Waste: | 33 |
| TOTAL FTEs | 147 |

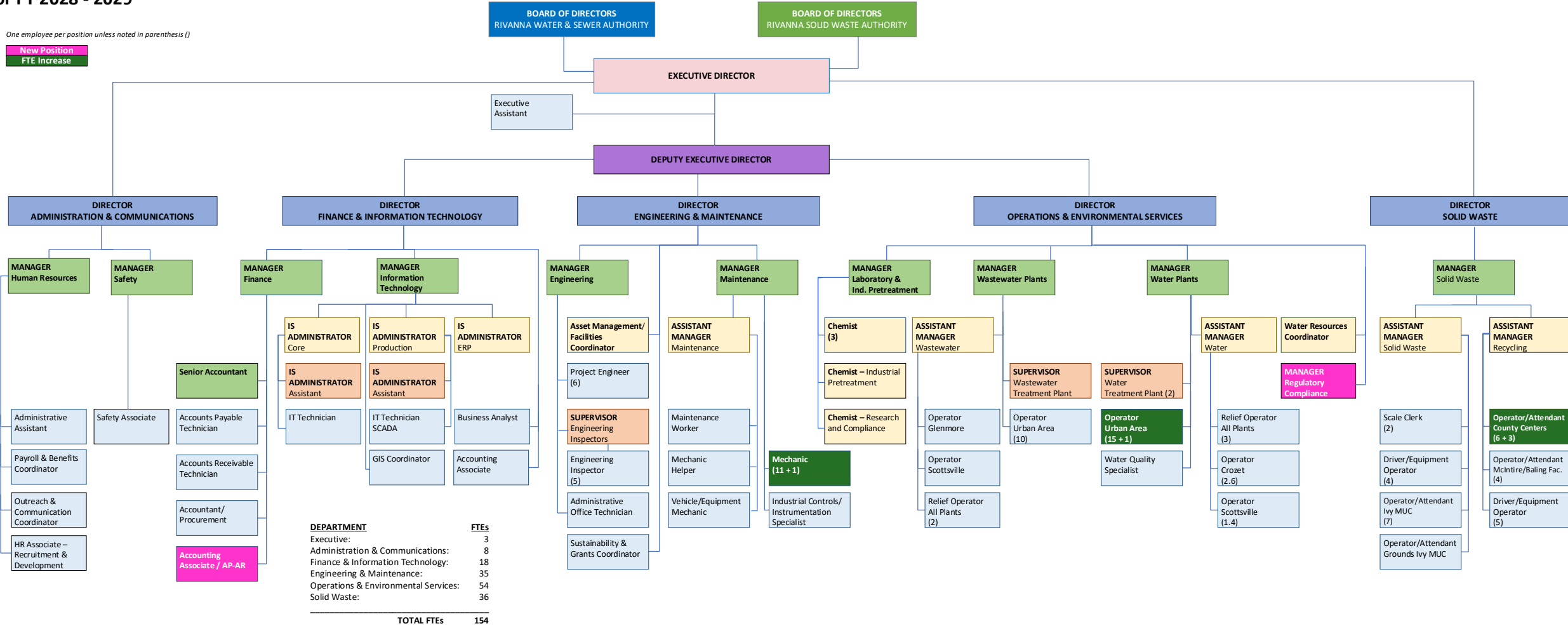
RIVANNA AUTHORITIES

Succession Management & Organizational Development Plan for FY 2028 - 2029

April 23, 2024

One employee per position unless noted in parenthesis ()

New Position
FTE Increase



RIVANNA AUTHORITIES

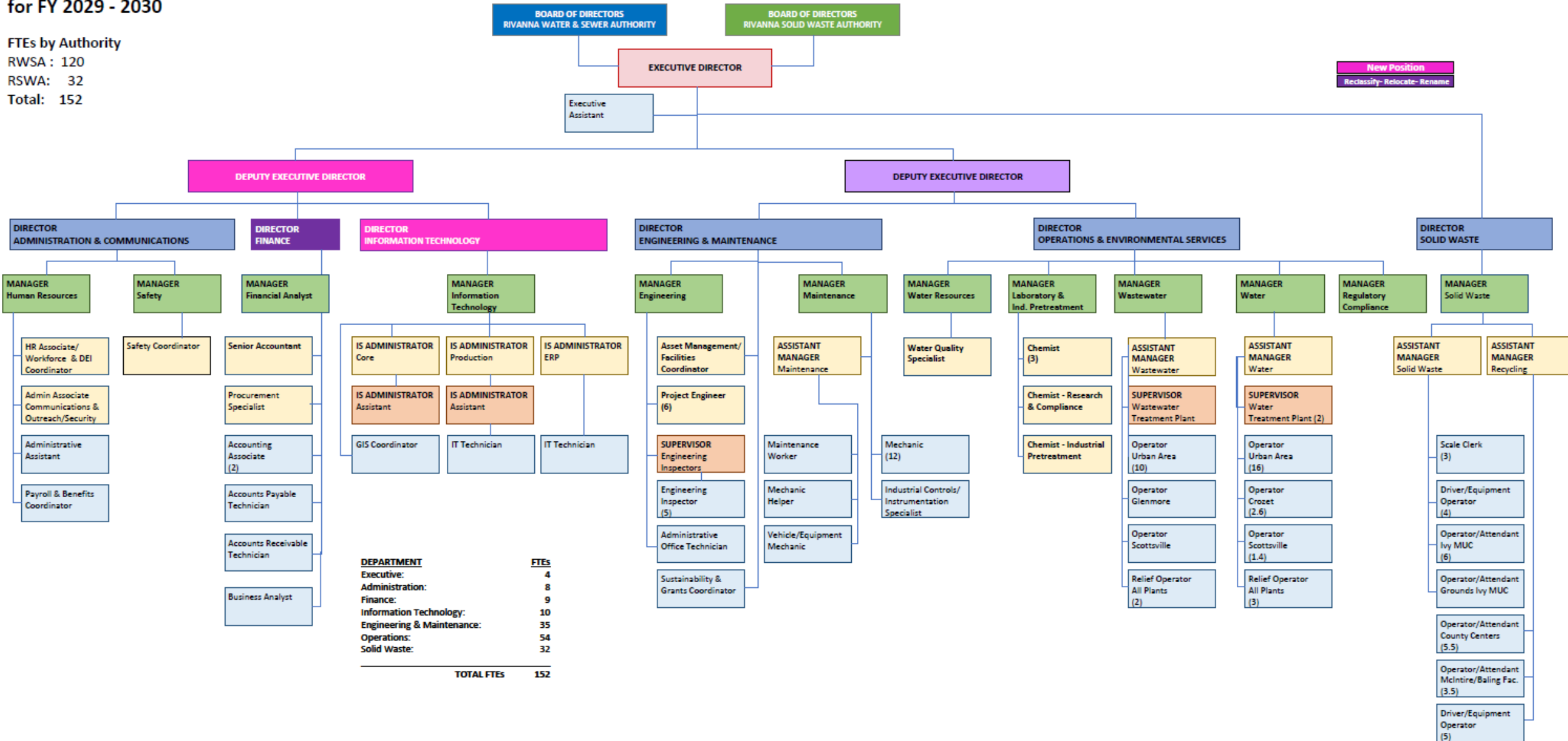
Succession Management Plan

for FY 2029 - 2030

January 31, 2023

FTEs by Authority

RWSA : 120
 RSWA: 32
 Total: 152

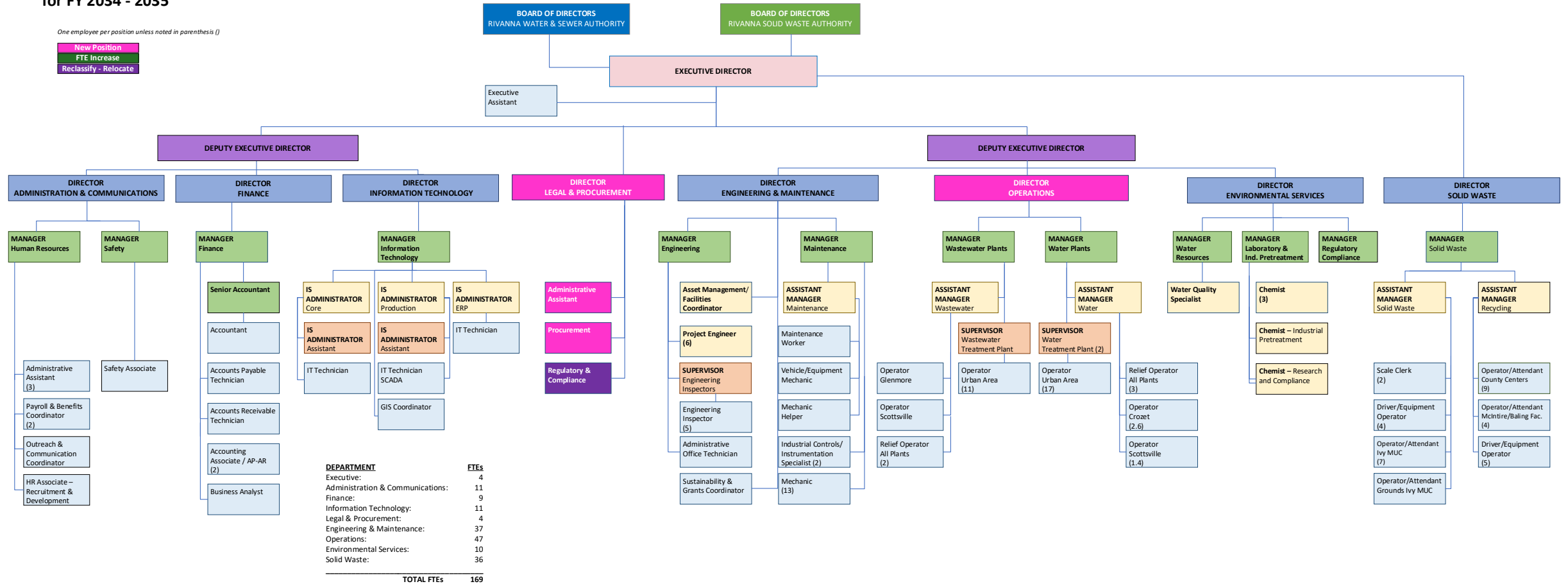


RIVANNA AUTHORITIES Succession Management & Organizational Development Plan for FY 2034 - 2035

April 23, 2024

One employee per position unless noted in parenthesis ()

New Position
FTE Increase
Reclassify - Relocate



| DEPARTMENT | FTEs |
|----------------------------------|------------|
| Executive: | 4 |
| Administration & Communications: | 11 |
| Finance: | 9 |
| Information Technology: | 11 |
| Legal & Procurement: | 4 |
| Engineering & Maintenance: | 37 |
| Operations: | 47 |
| Environmental Services: | 10 |
| Solid Waste: | 36 |
| TOTAL FTEs | 169 |

Summary in 2023

8 key positions have been identified for potential retirements within the next 5 years



Potential successors have been identified for many of the vacancies



Organizational changes have been planned to support the Succession Management Program



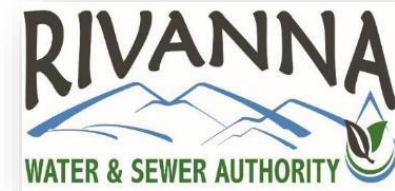
Training will be provided through our Leadership Development Program

Questions and
Comments?





Wastewater Program Review



DAVE TUNGATE

DIRECTOR OF OPERATIONS AND
ENVIRONMENTAL SERVICES

BOARD OF DIRECTORS MEETING

APRIL 23, 2024

Moores Creek Advanced Water Resource Recovery Facility
15 MGD Plant on 80 acres

15 MGD Moores Creek



4 Wastewater Facilities

0.2 MGD Scottsville



Stone Robinson

0.007 MGD



WWTP

WWTP

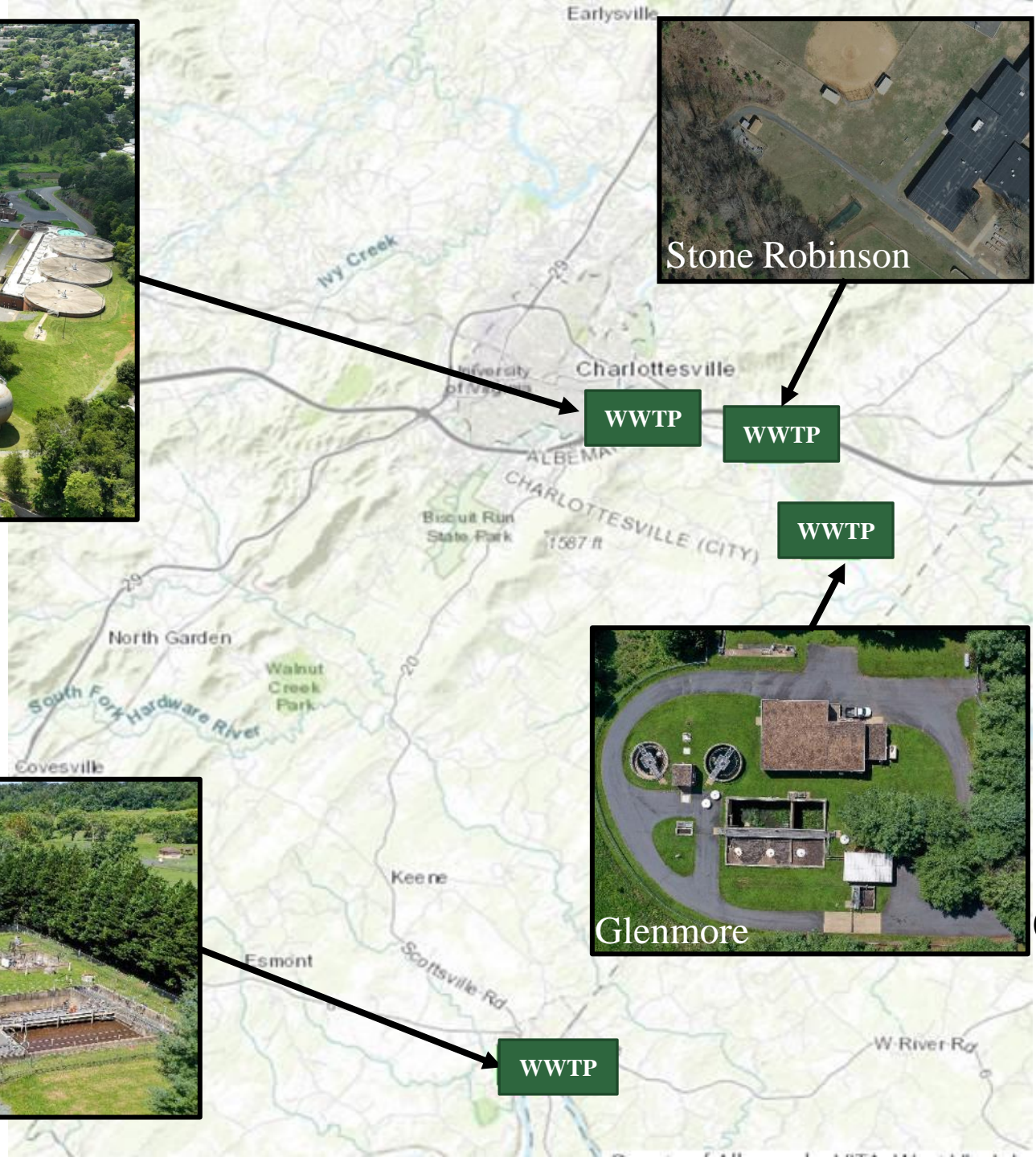
WWTP

Glenmore

0.38 MGD



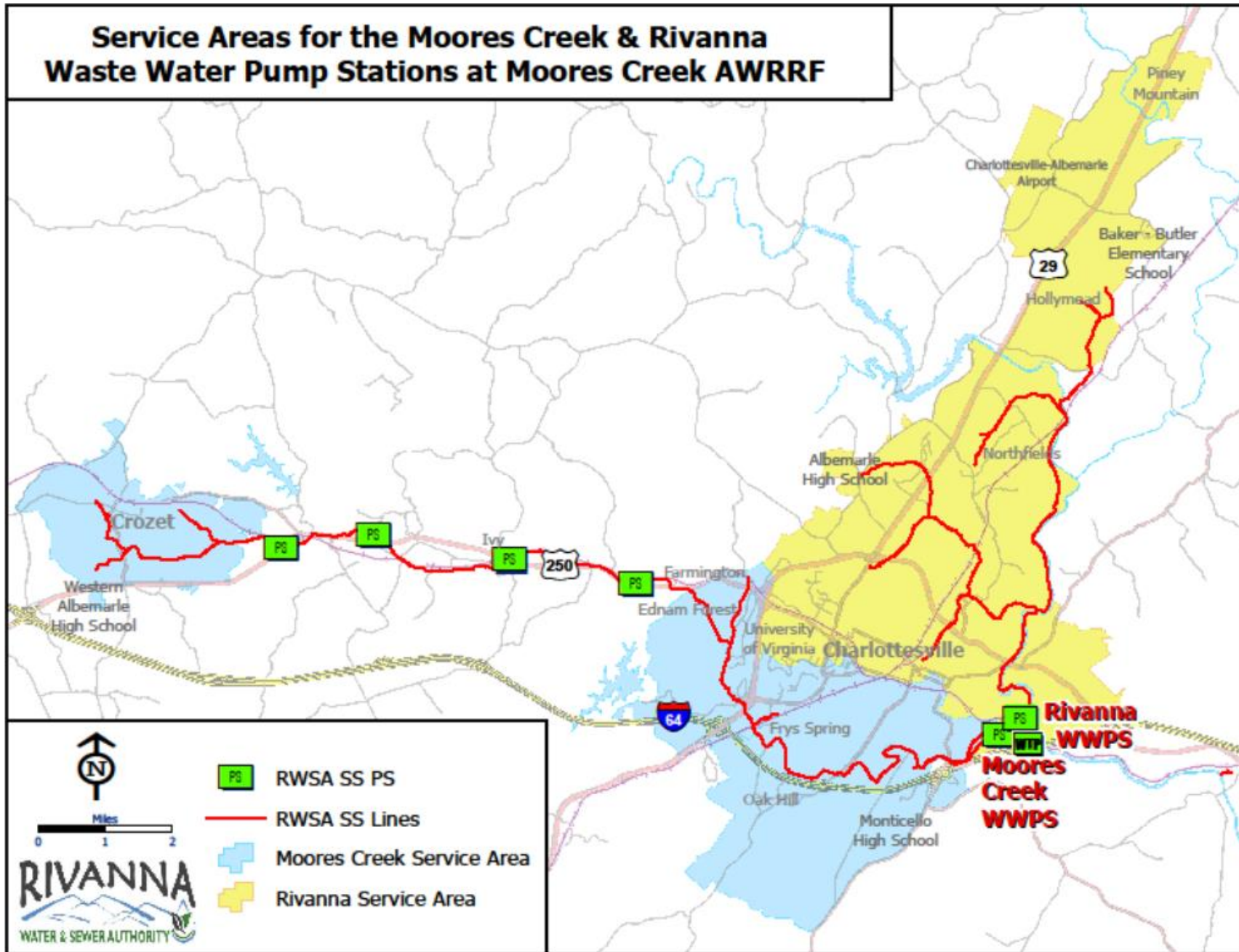
WWTP



Sewer Pump Stations at Moores Creek

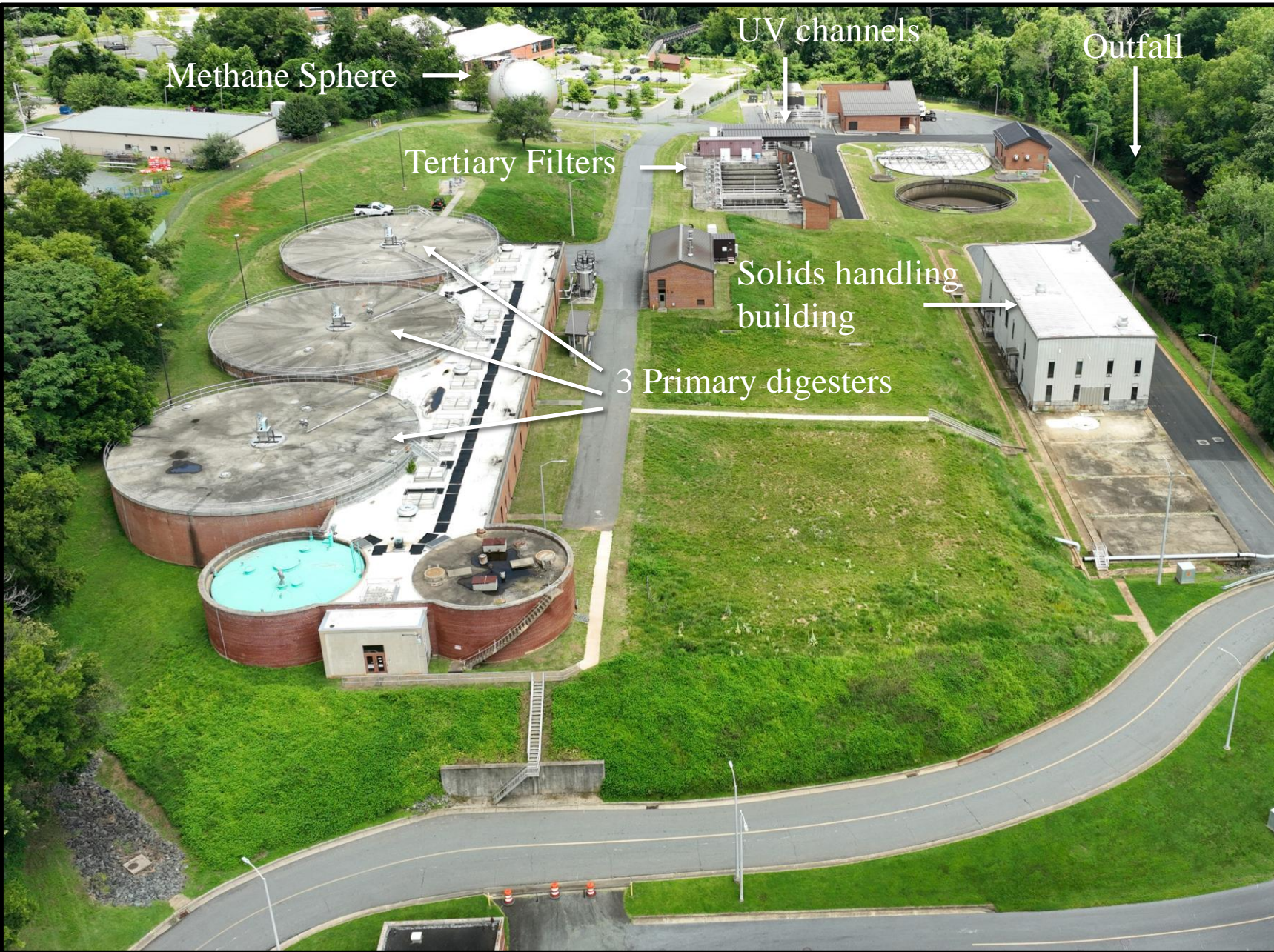


Service Areas for the Moores Creek & Rivanna Waste Water Pump Stations at Moores Creek AWWRF





Moores Creek "Wet Side"



Moores Creek “Solids side”



Band Screens

*remove debris from
wastewater after the
pump stations*



Debris

*removed by the
band screens*

Grit Removal System



Grit removed





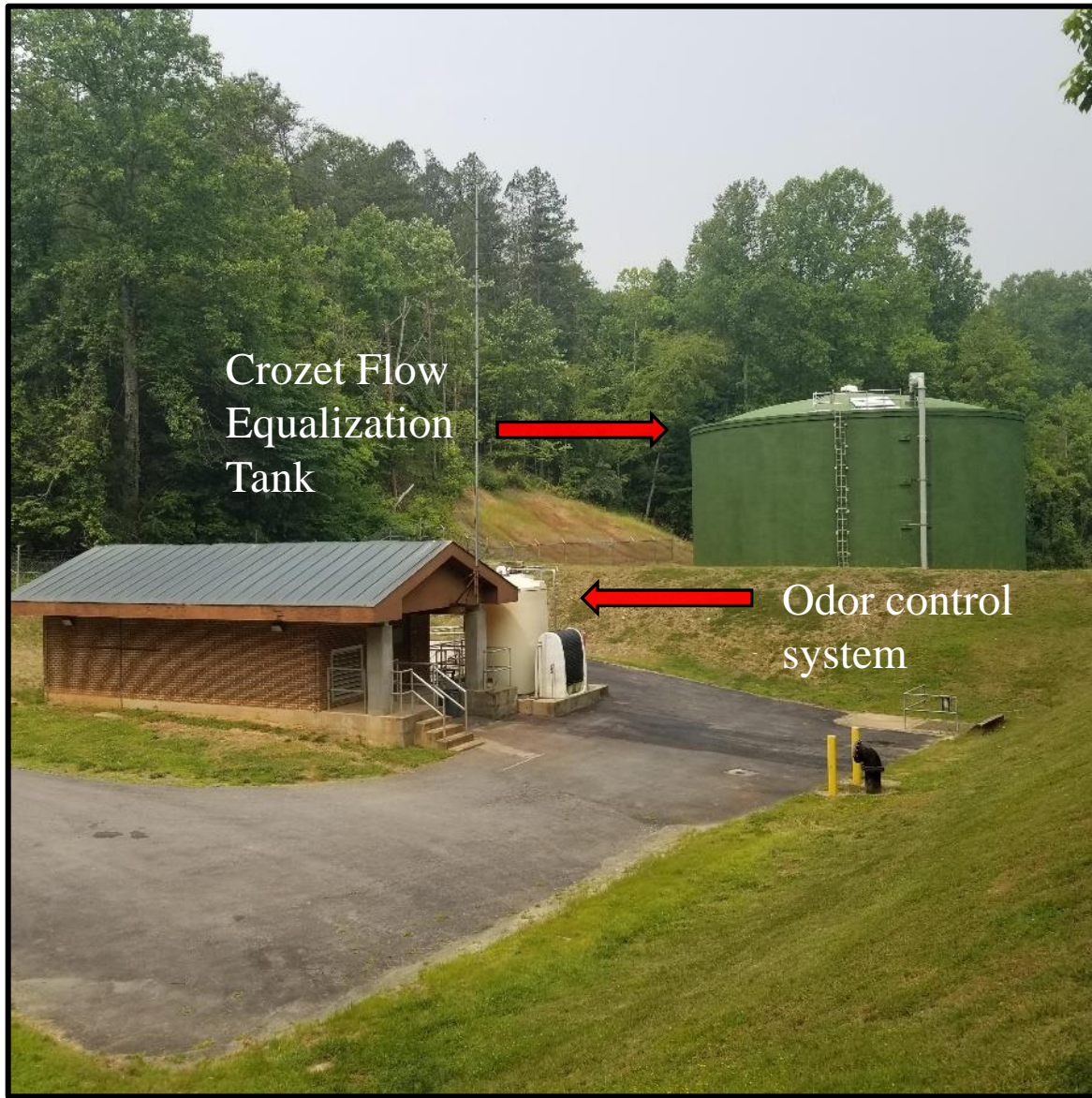
Primary Clarifiers

sludge removal by settling and removal of floating grease/oils



Moores Creek Odor Control

*removes odors from
gases under primary
clarifier covers*



Crozet pump station 4

Crozet sewer Odor Control

*Reduces odors in
sewer line from Crozet
to Charlottesville*

- ◆ *Odor control from Crozet
costs about \$390,000/year*



Crozet sewer Odor Control

*Vendor provides
chemicals and
equipment for odor
control at pump
stations 1,2, and 4*

Crozet pump station 2



Biological Treatment

*enhanced
nutrient removal
by microbes*



Secondary Clarifiers

Final stage of sludge removal



Sand Filters

remove small particles prior to UV disinfection



Ultraviolet light channels
disinfects wastewater effluent flow

Outfall to Moores Creek





Centrifuge

*dewaters
anaerobic sludge
from digesters*



Dewatered solids or Biosolids

*Moore's Creek
generated approx.
14,000 tons of
biosolids in 2023
and made 545 trips to
compost facility*

Moores Creek Nutrients

Nutrient discharges at the Moores Creek AWWRF were as follows for March 2024.

| <i>State Annual Allocation (lb./yr.) Permit</i> | <i>Average Monthly Allocation (lb./mo.) *</i> | <i>Moores Creek Discharge March (lb./mo.)</i> | <i>Performance as % of monthly average Allocation*</i> | <i>Year to Date Performance as % of annual allocation</i> | |
|---|---|---|--|---|-----|
| Nitrogen | 282,994 | 23,583 | 7,603 | 32% | 12% |
| Phosphorous | 18,525 | 1,636 | 695 | 19% | 4% |

*State allocations are expressed as annual amounts. One-twelfth of that allocation is an internal monthly benchmark for comparative purposes only.

Wastewater Plant Performance Testing

Monthly compliance reports are sent to VaDEQ

Moores Creek

- | | |
|-------------------------------------|----------------|
| • Dissolved oxygen | Daily |
| • pH | Daily |
| • Total Suspended Solids | 5 times a week |
| • Ammonia | 5 times a week |
| • Escherichia coli bacteria | 4 times a week |
| • Total Phosphorus | 2 times a week |
| • Total Nitrogen | 2 times a week |
| • Chemical Biological Oxygen Demand | 1 time a week |



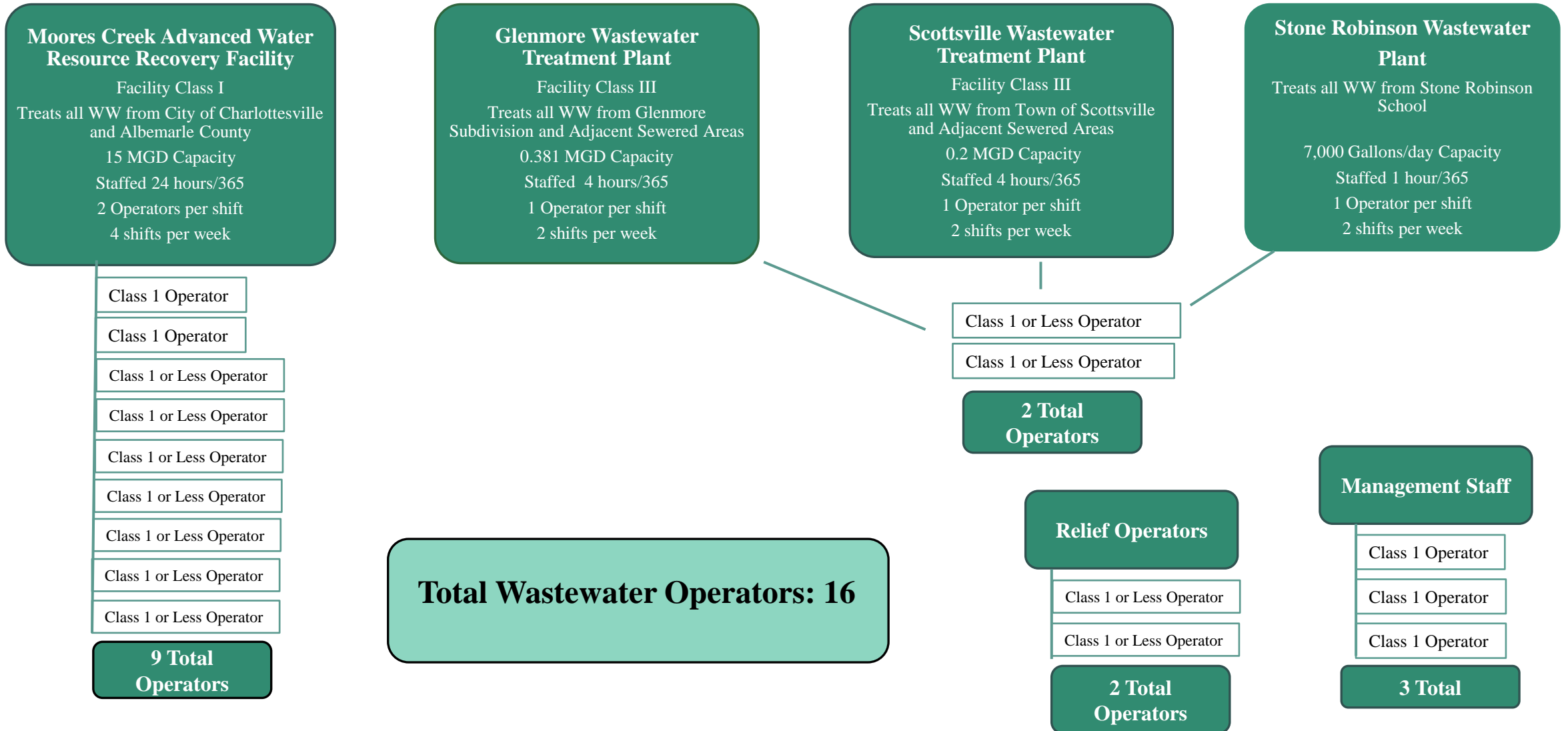
Moores Creek septic station

*approx. 9 million
gallons of septic and
6,100 transactions in
CY 2023*

Amount of Wastewater Treated

| Wastewater Facility Name | Total Annual Flow (MG) |
|---------------------------------|-------------------------------|
| Moores Creek | 3,500 |
| Glenmore | 44.8 |
| Scottsville | 20.66 |
| Stone Robinson | 0.61 |

Wastewater Treatment Plants



Wastewater Staff Licenses

| Wastewater License | Number of Operators |
|----------------------------|---------------------|
| Class 1 | 7 |
| Class 2 | 6 |
| Class 3 | 1 |
| Class 4 | - |
| Unlicensed Trainee | 1 |
| Total Wastewater Operators | 15* |

*- Wastewater currently has an open position

Industrial Waste Pre-Treatment Program



Purpose of the program

- Protect the sewer system and the processes in the wastewater treatment plants by having discharge limits
- Required by Environmental Protection Agency and Virginia Department of Environmental Quality (VaDEQ)



Virginia Pollutant Discharge Elimination System

- VaDEQ Requirements:
 - Implement a pretreatment program that complies with the EPA's Clean Water Act of 1972
 - Submit an annual report on the pretreatment program by January 31st of each year

Discharge limits

- Pretreatment program looks at the following constituents:

- Fats Oils and Greases (FOG)
- Metals (Manganese, Copper, Lead, heavy metals)
- Nutrients (Nitrogen and Phosphorus)
- pH (discharge must be between 6.0 and 9.0)
- Chemical Biochemical Oxygen Demand



Identifying Industrial Users

- Significant Industrial User (SIU)
 - Categorical (metal finishing, semiconductor manufacturing, etc.)
 - Non-categorical (discharges more than 25,000 gal/day or has potential to adversely affect our treatment process)
- Businesses with processes that discharge pollutants of concern to the sewer system
 - Restaurants
 - Breweries and Wineries
 - Food Preparation facilities
 - Soft drink bottling facilities

Current Industrial Permits

- RWSA currently has 3 SIUs in the pretreatment program:



- New permits were issued for all 3 on July 1, 2022 and will expire on June 30, 2025.
- Each industry is required to submit a semi-annual report for the periods ending in June and December of each year.

Wastewater Department Budget ~FY 2025~

- \$22.9 million
 - \$11.2 million for debt service
 - \$4.5 million for central support (Finance, IT, HR, Engineering, Maintenance, Lab services)
 - \$1.7 million for employee salaries
 - \$1.4 million – utility costs (electricity, natural gas)
 - \$1.1 million for wastewater treatment chemicals
 - \$1.1 million (odor control, biosolids disposal and trucking)
 - \$0.8 million – communication lines, IT, misc. supplies, professional services
 - \$1.1 million for operations and maintenance
- treated 3.4 billion gallons of wastewater in FY 2023
- at the cost of \$0.67 per 100 gallons of wastewater



Questions?