



Board of Directors Meeting

January 28, 2025

2:00pm

BOARD OF DIRECTORS

Regular Meeting of the Board of Directors of the Rivanna Solid Waste Authority

DATE: January 28, 2025

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

TIME: 2:00 p.m.

AGENDA

1. **CALL TO ORDER**
2. **AGENDA APPROVAL**
3. **MINUTES OF PREVIOUS BOARD MEETING ON NOVEMBER 19, 2024**
4. **RECOGNITION**
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 Ivy Solid Waste and Recycling Center/Recycling Operations Update*
 - c. *Staff Report on Administration and Communications*
 - d. *Approval of Construction Contract Award; Recycled Materials Baling Facility – R2Build, Inc.*
 - e. *Approval of Special Tire Collection Event at Southern Albemarle Convenience Center*
 - f. *Consideration of a Long-Range Planning Committee*

(Motion and vote to Recess the RSWA Board Meeting)

9. OTHER BUSINESS

(Motion and vote to Reconvene the RSWA in a Combined Session with the RWSA)

- a. *Presentation: Strategic Plan Update*
Betsy Nemeth, Director of Administration and Communications
- b. *Presentation: Asset Management Update*
Katie McIlwee, Asset Management Coordinator
- c. *Presentation: Grant Applications Update*
Annie West, Sustainability and Grants Coordinator

(Complete and close the RWSA meeting, then complete and close the RSWA meeting)

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



RSWA BOARD OF DIRECTORS
Minutes of Regular Meeting
November 19, 2024

A regular meeting of the Rivanna Solid Waste Authority (RSWA) Board of Directors was held on Tuesday, November 19, 2024, at 2:00 p.m. at Rivanna Administration Building, (2nd Floor Conference Room), 695 Moores Creek Lane, Charlottesville, VA 22902.

Board Members Present: Mike Gaffney, Jeff Richardson, Jim Andrews, Brian Pinkston, Sam Sanders (arrived at 2:04 p.m.), Steven Hicks

Board Members Absent: Lance Stewart

Rivanna Staff Present: Bill Mawyer, Phil McKalips, Betsy Nemeth, Lonnie Wood, David Tungate, James Heller, David Rhoades, Deborah Anama, Jacob Woodson

Attorney(s) Present: Valerie Long

1. CALL TO ORDER

Mr. Gaffney convened the November 19, 2024 regular meeting of the Board of Directors of the Rivanna Solid Waste Authority at 2:00 p.m.

2. AGENDA APPROVAL

There were no comments on or questions for the agenda.

Mr. Andrews moved that the Board approve the agenda. Mr. Pinkston seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Stewart were absent.)

3. MINUTES OF PREVIOUS BOARD MEETING

a. Minutes of the Regular Meeting of the Board on September 24, 2024

There were no comments on or questions regarding the minutes for the meeting held on September 24, 2024.

Mr. Pinkston moved that the Board to approve the minutes from the meeting held on September 24, 2024. Mr. Andrews seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Stewart were absent.)

4. RECOGNITION

a. Resolution of Appreciation for Lance Stewart, RSWA Board Member

Resolution of Appreciation for Mr. Lance Stewart

47 **WHEREAS**, Mr. Stewart has served as a member of the Rivanna Solid Waste Authority
48 Board of Directors since May 2019; and
49

50 **WHEREAS**, over that same period Mr. Stewart has demonstrated leadership in solid waste
51 and recycling services and has been a valuable member of the Board of Directors and a resource to
52 the Rivanna Solid Waste Authority; and
53

54 **WHEREAS**, Mr. Stewart's understanding of the solid waste and recycling operations of the
55 Solid Waste Authority has supported a strategic decision-making process that provided benefits to
56 the customers served by the County of Albemarle as well as the community as a whole. During Mr.
57 Stewart's tenure, major initiatives and projects were completed for the Authority including:
58

- 59 – a 5-year Strategic Plan to provide direction for the programs of the Authority
- 60 – market-based tipping fees to increase community services
- 61 – vegetative buffer management and large clean fill disposal programs at the Ivy Solid Waste
62 & Recycling Center
- 63 – construction of the Ivy and Southern Albemarle Convenience Centers for collection of
64 recyclable materials and household refuse
- 65 – and planning for construction of a new recyclable materials Baling Facility and a Northern
66 Albemarle Convenience Center
67

68 **NOW, THEREFORE, BE IT RESOLVED** that the Rivanna Solid Waste Authority Board
69 of Directors recognize, thank, and commend Mr. Stewart for his distinguished service, efforts, and
70 achievements as a member of the Rivanna Solid Waste Authority, and present this Resolution as a
71 token of esteem with best wishes in his future endeavors.
72

73 **BE IT FURTHER RESOLVED** that this Resolution be entered upon the permanent
74 Minutes of the Rivanna Solid Waste Authority.
75

76 Michael Gaffney, Chairman
77 Jim Andrews
78 Steven Hicks
79 Brian Pinkston
80 Jeff Richardson
81 Sam Sanders
82

83 **Mr. Andrews moved that the Board adopt the Resolution of Appreciation for Mr. Lance**
84 **Stewart. Mr. Pinkston seconded the motion, which carried unanimously (6-0). (Mr. Stewart**
85 **was absent.)**
86

87 b. Resolution of Appreciation for James Heller, Driver/Operator
88

89 **Resolution of Appreciation for James Heller**
90

91 **WHEREAS**, Mr. Heller has served as a Driver/Operator for the Rivanna Solid Waste Authority
92 since August of 2004; and
93

94 **WHEREAS**, over a period of 20 years, Mr. Heller has demonstrated leadership in his field and
95 has been a valuable resource to the Authority and its employees; and
96

97 **WHEREAS**, Mr. Heller's understanding of the Authority's operation and dedication and
98 loyalty to the Authority has positively impacted the Authority, its customers and its employees; and
99

100 **WHEREAS**, the Rivanna Solid Waste Authority Board of Directors is most grateful for the
101 professional and personal contributions Mr. Heller has provided to the Rivanna Solid Waste
102 Authority and to its customers and its employees; and
103

104 **NOW, THEREFORE, BE IT RESOLVED** that the Rivanna Solid Waste Authority Board of
105 Directors recognizes, thanks, and commends Mr. Heller for his distinguished service, efforts, and
106 achievements as a member of the Rivanna Solid Waste Authority, and presents this Resolution as a
107 token of esteem, with its best wishes in his retirement.
108

109 **BE IT FURTHER RESOLVED** that this Resolution be entered upon the permanent Minutes of
110 the Rivanna Solid Waste Authority.
111

112 Michael Gaffney, Chairman
113 Jim Andrews
114 Steven Hicks
115 Brian Pinkston
116 Jeff Richardson
117 Sam Sanders
118 Lance Stewart
119

120 **Mr. Pinkston moved that the Board adopt the Resolution of Appreciation for Mr. James**
121 **Heller. Mr. Andrews seconded the motion, which carried unanimously (6-0). (Mr. Stewart**
122 **was absent.)**
123

124 Mr. Mawyer asked if Mr. Heller would like to share his single most memorable event in his time
125 with the Authority.
126

127 Mr. Heller stated that Tom Frederick, who was once in Mr. Mawyer's position, came to them one
128 day and stated that they did not know what they were going to do, and they may need to look for
129 other jobs. He stated that thanks to Liz Palmer, who was a trooper along with Mr. Gaffney and the
130 other Board members, they did some unbelievable work. He stated that this Board understood what
131 was needed in the County and did what needed to be done. He stated that he remembered when they
132 opened the newest transfer station, everything changed.
133

134 Mr. Heller stated that the place was so much cleaner and the people who came in were so much
135 nicer. He stated that Mr. Mawyer and Mr. Rhoades' new management was unbelievable. He stated
136 that he was not getting anything out of saying this now, since he was leaving, but he had always
137 stated that these gentlemen here and the two others at Rivanna made a world of difference so that he
138 was able to stay at Rivanna. He stated that they made life here a whole lot better so he could
139 continue, and he thanked them for all that they had done.
140

141 **5. EXECUTIVE DIRECTOR'S REPORT**

142

143 Bill Mawyer, Executive Director, stated that since this was the last RSWA meeting of the year, they
144 were making it a holiday celebration meeting. He stated that as a token of appreciation, they had
145 reusable Rivanna Authorities water bottles and Rivanna grocery totes available for Board members.

He stated that he also wanted to express his gratitude for the members service. He stated that it had been a great year, and they were looking forward to 2025.

Mr. Mawyer stated that to recap, they celebrated Employee Appreciation Day earlier this month and honored several employees. He stated that James Heller had just reached 20 years of service and was retiring, while others reached 10 and 5 years of service. He stated they also recognized Rodney Bright, who recently obtained his CDL Class A driver's license, allowing him to drive the large trucks on public roads.

Mr. Mawyer stated that he also wanted to acknowledge the significant amount of truck driving and road driving that occurred at their facility, with seven loads of leachate being transported to the plant every week. He stated that Mr. Bright's new license was a welcome addition to their team. He stated that business at the Ivy facility remained steady, with an upper level of 240 tons per day transferred in September and 214 tons per day in October, which was similar to 2023. He stated that they were currently leveling out their growth in tonnage, which was a positive trend. He stated that their maximum capacity was 450 tons per day, with occasional days reaching that 450 ton level.

Mr. Mawyer stated that Mr. McKalips' idea for the pumpkin composting event, or "The Pumpkin Smash," had been a success, with 1,700 pounds of pumpkins being collected and trucked to Panorama Farms for composting. He stated that they had also celebrated America Recycles Day on November 15, recognizing their recycling programs. He stated that they had been awarded a grant of approximately \$52,000 from the state for the litter prevention and recycling program.

Mr. Mawyer stated that additionally, they had received a competitive litter grant of \$6,000, which they planned to use to purchase reusable, insulated totes. He stated that the totes would be distributed through the Blue Ridge Area Food Bank, where they would be used to package food products for distribution at Thanksgiving. He stated that they completed the Fall Refuse and Special Collection Program, which saw over 700 customers visit the Household Hazardous Waste collection event over two days. He stated that the special collection program received over 56,000 pounds of products, including furniture, mattresses, appliances, and tires.

Mr. Mawyer stated that the United Way Day of Caring event, in partnership with Atlantic Union Bank employees, allowed them to bag oysters received at McIntire and ship them to VCU, where they were reseeded and returned to the James River and Chesapeake Bay. He stated that this program promotes water quality by reintroducing oysters into the environment.

Mr. Mawyer stated that the data also showed that e-waste disposal is a growing program, with a 33% increase in participation from Albemarle County residents and 43% increase in City resident participation over the last three years. He stated that household hazardous waste, appliance disposal, and furniture and mattress collection have also seen significant growth. He stated that they are hopeful the long-running program has helped to stabilize the disposal market for used mattresses. He stated that the City and the County cover the cost of products that are brought to them by customers, as customers do not incur any costs.

Mr. Pinkston asked where the mattresses eventually went.

Mr. McKalips stated that they were disposed of at the landfill in Henrico County.

Mr. Gaffney stated that they could not recycle the mattresses.

Mr. Pinkston asked if they could chip them up.

Mr. Mawyer stated that the springs caused significant problems when attempting to recycle them in the recycling machines. He stated that they received a proposal from van der Linde Recycling, located at Zion Crossroads, which would have cost \$100,000 to process these mattresses. He stated that it was decided not to pursue this program last year, resulting in the mattresses going to the landfill. He stated that if the Board was so inclined, they could reconsider that request.

Mr. Mawyer stated that he attended the annual membership meeting of the Solid Waste Association of North America (SWANA), which provided a valuable networking opportunity. He stated that the RSWA Board meeting schedule for 2025 was included as a consent agenda item, outlining their regular meetings, which took place every other month, starting in January, on the fourth Tuesday at 2:00 p.m., except for November, when they met in the third week due to holidays.

Mr. Mawyer stated that they accepted written comments from the public, which they would read to the Board if received, and offered virtual commenting via Zoom during Board meetings. He stated that they recorded and posted meetings on their website for public viewing. He stated that the 2025 holiday schedule for staff was also included on the consent agenda. He stated that this schedule included 13.5 holidays, with 12.5 standard holidays and the addition of December 26th next year. He stated that for next year, they propose adding the Friday following Christmas on Thursday, resulting in 13.5 days of holidays for staff.

Mr. Gaffney asked if the schedule was similar to the County, City, and Albemarle County Service Authority schedules for 2025.

Mr. Mawyer stated that he believed so, but was not entirely certain. He stated that they typically closely followed the calendars of other governments in the community. He noted that the red stars on the solid waste schedule were six days during the year on which the landfill and recycling facilities would be closed. On the other holidays, staff would be working and all facilities would be open. Staff would receive additional vacation time pay for those holidays.

Mr. Hicks asked if there was a reason for the half-day on Wednesday, November 26th.

Mr. Mawyer stated that traditionally they had allowed employees to take a half-day off before Thanksgiving, so it had become a standard part of their holiday package over the years.

6. ITEMS FROM THE PUBLIC

Matters Not Listed for Public Hearing on the Agenda

Liz Palmer stated that she was a County resident and a former member of this Board. She stated that she had a statement and a request to share with this Board today, and to be mindful of their time, she would just read her written statement. She stated that approximately 10 years ago, the County formed the Long-Range Solid Waste Solutions Advisory Committee, comprised of interested citizens, professionals in solid waste management, recycling, and other related professions.

Ms. Palmer stated that this committee was designed as a temporary entity for strategic planning. She stated that in 2014, when she joined the Board of Supervisors, the County was poised to close the Ivy Transfer Station and replace it with a couple of convenience centers for residential use only and to be operated by a private company. She stated that the new Board of Supervisors decided to take a different approach and formed the committee to guide decision-making.

Ms. Palmer stated that the committee included an impressive lineup of experts, including two engineers from the UVA Facilities Department, a chemist, a former GBB planner, Supervisor Mallek's husband, and a retired hauler who suggested building a new state transfer station on the hill, operating it six days a week, setting a competitive tipping charge, and expect a significant increase in business within three years. She stated that she believed that suggestion was spot on. She stated that next October will mark the 10th anniversary of that plan. She stated that while the County has made significant progress, she thought it was time to repeat the process.

Ms. Palmer stated that one aspect of the original plan that remained relevant was the County's hiring of a solid waste manager. She stated that it was now clear that this position was unnecessary, given the expertise and resources available through the Rivanna Authorities. She stated that furthermore, the City had undergone significant changes, including redevelopment plans that would generate a substantial amount of demolition debris and require special collections for sizable pickups, composting, and other services. She stated that perhaps this time around, it would make sense for the City to consider joining this process.

Ms. Palmer stated that she was here today to ask the Board to consider the formation of a new group. She stated that with joint City-County participation under the leadership of RSWA for strategic planning over the next 10 years, the resulting plan would hopefully be considered and approved by both the Board of Supervisors and the City Council, providing RSWA with clear direction for future improvements in service delivery.

Ms. Palmer stated that she was confident that if the RSWA could facilitate a hybrid participation in this meeting, they could truly capitalize on the extraordinary local talent that they had here. She stated that they did have an incredible amount of local talent. She stated that if one thing she had learned from her experience on various boards was that there were many people out there who could offer valuable assistance. She stated that she appreciated their time and any questions they may have. She stated that she looked forward to hearing their opinions.

7. RESPONSES TO PUBLIC COMMENT

Mr. Sanders stated that he would appreciate some insight into the City's perspective on the issue prior to their current engagement. He stated that since they were now asking the City to participate, he would like to gain a better understanding of what that entailed and what it meant for their current discussion. He stated that as he was not present at the previous discussions, he was seeking clarification on this matter.

Mr. Gaffney stated that perhaps Ms. Palmer could meet with Mr. Sanders to review the past actions.

Mr. Mawyer stated that they would be glad to help coordinate that.

Mr. Gaffney stated that it was a great idea.

Mr. Andrews stated that they could review the charges of that group and update them, involving Mr. McKalips in that process.

Mr. Richardson stated that before they left the topic, he wanted to clarify that the Board was asking Mr. Mawyer and his team to follow up on the history of the Solid Waste Advisory Committee, as requested by the City Manager, and they would get staff perspective for the Board to consider. He

296 stated that he would love to hear about what staff had to say about the work, which had been
297 ongoing since 2014. He stated that Rivanna staff could share their thoughts on their progress in that
298 time and what the future work may entail. He stated that without a determinate timeframe, he would
299 simply ask that Mr. Mawyer and his team further discuss this topic with the Board.

300
301 Mr. Gaffney asked if Mr. Andrews would also like to be a part of this work.

302
303 Mr. Andrews stated yes, he would like to understand the charge given to the committee and what
304 was needed to update it to reflect the desired outcome.

305
306 Mr. Gaffney stated that it was a great idea.

307 308 **8. *CONSENT AGENDA***

309
310 *a. Staff Report on Finance*

311
312 *b. Staff Report on Ivy Solid Waste and Recycling Center/Recycling Operations Update*

313
314 *c. Staff Report on Administration and Communications*

315
316 *d. Approval of Board Meeting Schedule for Calendar Year 2025*

317
318 *e. Approval of the Holiday Schedule for Calendar Year 2025*

319
320 **Mr. Pinkston moved that the Board approve the Consent Agenda as presented. Mr. Andrews**
321 **seconded the motion, which carried unanimously (6-0). (Mr. Stewart was absent.)**

322 323 **9. *OTHER BUSINESS***

324 *a. Presentation and Vote on Acceptance: FY 24 Audit Report*
325 *Matthew McLearen, Robinson, Farmer, Cox Associates*

326
327 Matthew McLearen, with Robinson, Farmer, Cox Associates, stated that they had performed the
328 Fiscal Year 2024 audit of the financial report, and he was here to present the results of that audit
329 and answer any questions the Board may have. He stated that an auditor releases a governance
330 letter, which is a two-page document that summarizes the key findings of the audit. He stated
331 that this letter was available in hard copy format as well. He stated that he would briefly review
332 the five key points in this letter.

333
334 Mr. McLearen stated that firstly, the letter highlighted the responsibilities under the audit,
335 including management of the Authority, the finance staff's role in applying accounting
336 principles, and their responsibility for preparing the financial report. He stated that the financial
337 report was prepared in its entirety by the Finance Department here at Rivanna. He stated that
338 management was also responsible for maintaining sufficient records and implementing a system
339 of internal controls throughout the year to ensure compliance and accuracy of the financial
340 statements.

341
342 Mr. McLearen stated that the auditor's responsibilities included auditing the documents, testing
343 controls, verifying the application of accounting principles, and applying the results to the
344 financial statements at the conclusion of the audit. He stated that the second key takeaway from
345 this letter was accounting estimates. He stated that as with most financial statements, accounting

estimates were used in preparation. He stated that the set of financial statements issued by Rivanna included two to three critical accounting estimates.

Mr. McLearen stated that the first was the depreciable life of long-term assets or fixed assets. He stated that the second and third were related to pension and Other Post-Employment Benefits (OPEB) liabilities, which were estimated by an actuary and used in the evaluation report and financial report. He stated that third, the letter noted any difficulties encountered during the audit process. He stated that this included examples such as incomplete records or inability to access necessary records. He stated that he was pleased to report there were no difficulties encountered during this audit.

Mr. McLearen stated that the fourth item was corrected and uncorrected misstatements. He stated that most audit processes included corrected misstatements. He stated that those were adjustments proposed by the audit staff, management, or the finance department, and were included in the financial report. He stated that uncorrected misstatements were required to be disclosed in detail to the governing body. He stated that those were statements that they had proposed to management, which they had refused to post or had not been included in the Audit Financial Report. He stated that he was pleased to report there were no uncorrected misstatements.

Mr. McLearen stated that the fifth and final item was related to management's consultation with other auditors, requiring professional standards to disclose their knowledge that whether management had sought a second opinion with another audit firm. He stated that this only applied in situations where there had been a disagreement over client accounting principles or audit processes. He stated that they had no knowledge that management had sought a second opinion. He stated that this concluded remarks on the letter to those charged with governance.

Mr. McLearen stated that they had issued a financial report that included an opinion or independent audit report. He stated that he would briefly review this document. He stated that this document was prepared by the Finance Department's Mr. Wood and his team. He stated that they would start with the Independent Auditor's Report. He stated that the auditor was required to apply professional standards to the financial statements. He stated that their opinion was titled the Independent Auditor's Report.

Mr. McLearen stated that to follow along with the actual report documents, pages 13 and 15, they had issued an unmodified or clean opinion on the Fiscal Year 2024 Financial Report. He stated that there were three key exhibits or financial statements in this document. He stated that Exhibit 1 was a statement of net position, which was similar to a balance sheet for a for-profit entity. He stated that it reported the assets, liabilities, and net position or equity of the Authority. He stated that at June 30, 2024, the net position or equity of the Authority was approximately \$11.3 million.

Mr. McLearen stated that Exhibit 2 was a statement of revenues, expenses, and changes in that position. He stated that it reported the total revenues and expenses, as well as the increase and decrease in that equity or net position for the fiscal year. He stated that the change in net position was the third number from the bottom on the slide, but the increase in equity or net position was approximately \$1.1 million annually, as reported in the year ending June 30, 2024 financials.

Mr. McLearen stated that Exhibit 3 was an informational exhibit on cash flows, which provided a detailed breakdown of the Authority's cash position. He stated that approximately two-thirds of

the way down, they would see a double underline indicating the ending cash position for the authority. He stated that this represented the authority's cash position only and did not include other types of assets. He stated that the ending cash position was approximately \$3.1 million. He stated that this exhibit summarized how the authority utilized its actual cash.

Mr. McLearen stated that the second report, commonly referred to as the yellow book opinion or compliance opinion, was included in the financial report. He stated that this report described any significant deficiencies, material weaknesses, or internal control issues. He stated that the auditor was required to test these controls and compliance, and this report would outline any non-compliance or significant deficiencies in the Authority's internal control structure. He stated that the report stated that no significant deficiencies or material weaknesses were found in the Authority's financial reporting structure.

Mr. Gaffney thanked Mr. McLearen for the report. He congratulated Mr. Wood and the Finance Department staff.

Mr. Andrews moved that the Board accept the Fiscal Year 2024 Audit Report. Mr. Sanders seconded the motion, which carried unanimously (6-0). (Mr. Stewart was absent.)

b. Presentation: Future Challenges in Solid Waste
Bill Mawyer, Executive Director

Bill Mawyer, Executive Director, stated that they had a nice aerial photo of the Ivy facility they recently obtained with their drone. He stated that the landfill cells shown with red stars were unlined. They did not get leachate from the unlined cells, but rather from the three lined cells. He stated that they had a mix of three unlined and three lined cells. He stated that the lining was the plastic liner that went under and over the refuse, making it a lined cell. He stated that they had three unlined cells, which lacked these plastic liners.

Mr. Mawyer stated that he gave credit to Ms. Anama for providing the philosophical insight from Voltaire, who noted that choosing not to look into the future was unwise. He stated that when they looked to the future, they saw drivers of capacity, regulations, emerging contaminants, technology, sustainability, and affordability. He stated that in solid waste specifically, they started with capacity and were fortunate to have the university providing a stable economic foundation for the community, which continued to grow. He stated that information from the university indicated it was adding approximately 200,000 square feet of building infrastructure every year.

Mr. Mawyer stated that they looked at the Weldon Cooper population predictions, which showed a growing population with predictions of 155,000 residents in 2050 in the County and 50,000 residents by 2050 in the City. He noted that rising sea levels and coastal migration may push additional people to attractive employment areas like the Charlottesville-Albemarle community. He stated that the construction industry was a major source of waste, as per the Environmental Protection Agency (EPA), which indicated approximately 44 tons per person of waste were in landfills in Virginia.

Mr. Richardson asked Mr. Mawyer if UVA's growth per year was 200,000 square feet per year was what they required in order to continue their university operations.

Mr. Mawyer stated that he believed that was correct. He stated that they had interviewed the architect of the university and gathered planning projections from both the County and City

446 planning departments. He stated that they then aggregated that information to formulate water
447 demand predictions for the RWSA service area. He stated that they had also created a graph in the
448 water and sewer report that illustrated the data. He stated that this was how they make predictions
449 on the growth of the Solid Waste Authority and the products they expect to receive.

450
451 Mr. Mawyer stated that refuse and recycling would continue to be growing services provided to the
452 community. He stated that when they considered service capacity, they were planning to build the
453 Northern Albemarle Convenience Center in a couple of years. He stated that the baling facility was
454 scheduled to go out to bid in the next month or two, and it would be built at the Ivy facility to
455 manage recycled materials. He stated that the baling facility would be completed by the fall of 2026.

456
457 Mr. Mawyer stated that they had a lease with Dominion Power for approximately 15 acres, and they
458 planned to start building solar cells there in January. He stated that Virginia Electric Power had
459 already completed the special use permit process with the County and was ready to proceed with
460 construction of the solar arrays on top of unlined cell #2.

461
462 Mr. Mawyer stated that landfill space was a key theme for them, and according to the Virginia
463 Department of Environmental Quality's (VDEQ) report, Virginia had approximately 21 years of
464 landfill space remaining. He stated that additionally, the refuse transferred from Ivy was sent to a
465 private landfill in Henrico County, which had a remaining life of 17 years. He stated that as they had
466 learned from their discussions with other colleagues, one of the main concerns was that, in 20 years,
467 they would likely run out of landfill space as a state and a nation.

468
469 Mr. Mawyer stated that this raised a significant challenge for the Solid Waste Authority and the
470 broader issue of solid waste management. He stated that they must determine what they would do
471 with the refuse as they exhausted landfill space. He stated it was clear that it was difficult to site
472 landfills, not only due to public opposition and regulatory hurdles, but also because of the
473 complexity of the process. He stated that the main message for today was that they were facing a
474 critical issue: they were running out of landfill space.

475
476 Mr. Gaffney asked if DEQ would not permit any future landfills.

477
478 Mr. Mawyer stated that like many regulatory processes, they expected it would be onerous. He
479 stated that a significant component of waste was electronic waste, which had been growing. He
480 stated that according to data from the Washington Post, the Artificial Intelligence (AI) boom may
481 lead to a global surge in electronic waste, and statistics showed that it had almost doubled over the
482 last 14 years. He stated that electronic waste could be hazardous, depending on the type of elements
483 it contained in laptops, cell phones, and computers. He stated that in 2014, 42 million pounds of e-
484 waste were shipped to developed countries, primarily China, which has now stopped taking
485 recyclables, severely impacting the recycling program. He stated that electronic waste was a
486 growing component of the waste stream.

487
488 Mr. Mawyer stated that the Washington Post article also discussed recycling, highlighting what
489 really got recycled. He stated that the mantra of recycling was to reduce, reuse, and recycle. He
490 stated that they first aimed to reduce products that could not be recycled. He stated that the article
491 indicated that cardboard and paper (81%), aluminum (35%), and glass (31%) were likely to be
492 recycled, while plastics were not (13.6% recycled; 17% incinerated; 70% in landfills). He stated the
493 key takeaway was that types 1 and 2 plastics tended to be the most recycled.

Mr. Mawyer stated that to address this, one potential solution was robotics. He stated that AMP Robotics had developed facilities in Portsmouth and Greenville, North Carolina, that used robotics to sort recyclables, eliminating the need for human intervention. He stated that robots sorted through all the products to identify and extract recyclable materials, aiming for a 90% capture rate of target materials. He stated that this technology may become a local reality in the future, with the possibility of establishing another material recycling facility which could utilize robotic and artificial intelligence systems to minimize waste and reduce landfill contributions.

Mr. Mawyer stated that another issue they would discuss was regulation of emerging contaminants, including leachate. He stated that leachate occurred when rainfall mixed with waste products, creating a unique blend of contaminants. He stated that at Ivy, they collected leachate from the lined landfill cells, pumped it into a temporary storage pond (lined) and transported the liquid to Moores Creek for treatment in the wastewater clarification process. He stated that the presence of PFAS in leachate was a concern. He stated that to address this, they had taken samples over the past four years, which showed varying levels of PFOA and PFOS, two regulated PFAS components. He stated that these results were presented in the accompanying graph, which ranged from 740 to 220 ppm for PFOA and 141 to 83 ppm for PFOS.

Mr. Gaffney asked if those were three tests performed in 2024.

Mr. Mawyer stated that was correct. He stated that they were disposing of leachate from Ivy into the wastewater. He stated that for the future, additional records and disposal options could include incineration, bioreactor landfills, which aimed to reduce the volume of waste by cooking it within a landfill, or composting, which they already did with their solid waste biosolids through McGill Environmental in Waverly, VA, or pyrolysis, a high-temperature technique that would break down organic products.

Mr. Mawyer stated that previously, he had met with Southeastern Public Service Authority (SPSA) and Montgomery Regional Solid Waste Authority, which provided an opportunity to network and discuss these issues with those organizations. He stated that it was essential to stay informed about landfill space, as these authorities had mentioned it as a concern. He stated that in summary, landfill space would be a local, state, and national issue over the next 20 years. He stated that regulatory requirements for leachate and wastewater treatment were uncertain, but regional partnerships may help optimize resources and minimize costs.

Mr. Mawyer stated that as landfill space became scarce, the cost of disposal was expected to rise. He stated that currently it cost the Authority \$16 as a net loss to transfer one ton of refuse, while recycling cost about \$700 per ton. He stated that as disposal options decreased, the costs would go up. He stated that they consistently endorsed the long-range strategic planning effort they had undertaken. He stated that this brief discussion focused on two key areas: landfill space and contaminants, including leachate with PFAS contamination.

Mr. Richardson asked to see the recycling data which showed the diversion from the landfill. He stated that when talking with the regional partners across Virginia, he wanted to know if they shared data to see how our local community performed compared to their peers.

Mr. Mawyer stated that we compare favorably, although recycling rates were sometimes puzzling. He stated that when some localities reported very high recycling rates (50 - 80%), it could be difficult to understand how that was possible. He stated that when recycling rates included vegetative waste and manufacturing byproducts, those numbers became more understandable. He

545 stated that he did not have rates from other localities readily available but could follow up with that
546 information.

547
548 Mr. Richardson stated that he did not expect the specific numbers to be presented but was
549 wondering if they were looking at other communities to see if they had any opportunities to
550 improve.

551
552 Mr. Mawyer stated that they would collect additional data and compare.

553
554 Mr. Hicks stated that in 20 years, they would not have any more landfills in Virginia. He asked what
555 the conversation was with their colleagues about what would happen in 20 years.

556
557 Mr. Mawyer stated that this was a wide-open question. He stated that there was uncertainty
558 surrounding how regulations would be applied at the national level in the future. He stated that
559 when considering a landfill, there were numerous environmental considerations that could be
560 prohibitive. He stated that whether regulations became more stringent or were relaxed, it was
561 essential to acknowledge that they would need to find new ways to dispose of waste in the future.
562 They would need to think creatively about alternative solutions. He stated that for instance, if
563 energy-from-waste plants had been constructed in the past, such as the one in Portsmouth, which
564 had been operational for decades before being shut down, there was a concern about whether similar
565 facilities would become a reality again. He stated that this type of facility raised concerns about air
566 pollution and was increasingly complex. He stated that there did not seem to be a simple answer to
567 this challenge.

568
569 Mr. Gaffney stated that he had been thinking about the 43 tons of waste that each of them would
570 generate in landfills. He stated that this led him to consider the barges that came from New York
571 City years ago, which were unloaded in landfills in Virginia, likely adding a significant amount of
572 waste per person.

573
574 Mr. Mawyer stated that from an economic perspective, it was more cost-effective for those like
575 New York to transport the material on a barge rather than to find a closer location in New York. He
576 stated that he was confident that as an industry, they would find innovative ways to address this
577 issue.

578
579 ***10. OTHER ITEMS FROM BOARD/STAFF NOT ON AGENDA***

580
581 There were none.

582
583 ***11. CLOSED MEETING***

584 There was no closed meeting.

585
586 ***12. ADJOURNMENT***

587 **At 2:52 p.m., Mr. Pinkston moved to adjourn the meeting of the Rivanna Solid Waste**
588 **Authority. Mr. Andrews seconded the motion, which carried unanimously (6-0). (Mr. Stewart**
589 **was absent.)**
590

MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: EXECUTIVE DIRECTOR'S REPORT

DATE: JANUARY 28, 2025

Congratulations to Board Members

- Congratulations to Board Chair, Michael Gaffney, who was reappointed by the City and County to the RSWA. This appointment will be for Mr. Gaffney's 23rd and 24th year on our Board.
- Congratulations to Supervisor Jim Andrews, who was selected to continue serving as Chair of the Albemarle County Board of Supervisors.

STRATEGIC PLAN PRIORITY: PLANNING AND INFRASTRUCTURE

New Recycled Materials Baling Facility

If awarded by the Board, a pre-engineered metal Baling Facility totaling 16,800 SF will be constructed at the Ivy Solid Waste and Recycling Center with completion by the fall of 2026. The bid of \$3.84 M from R2Build, Inc. from Vienna, VA. was within our project budget.

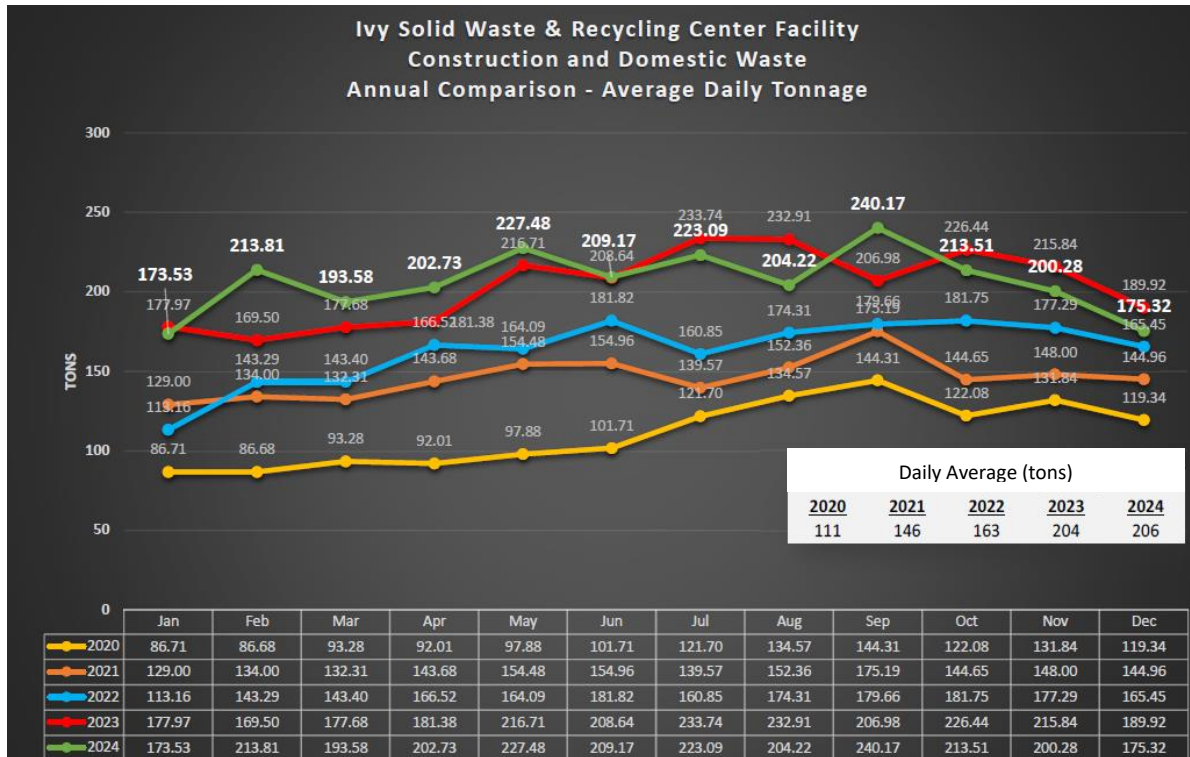


STRATEGIC PLAN PRIORITY: OPTIMIZATION AND RESILIENCY

Transfers from the Ivy Solid Waste and Recycling Center:

Average daily refuse transfer volume has increased from 111 tons per day in 2020 to 206 tons per day in 2024, as shown below:

November 2024	<u>Vehicles</u> 6,615	<u>Avg MSW & CDD Tons/Day</u> 201
December 2024	<u>Vehicles</u> 5,360	<u>Avg MSW & CDD Tons/Day</u> 176



STRATEGIC PLAN PRIORITY: ENVIRONMENTAL STEWARDSHIP

PFAS in Leachate and Wastewater Biosolids

On January 14, 2025, the U.S. Environmental Protection Agency (EPA) released the [**Draft Sewage Sludge Risk Assessment for PFOA and PFOS: Information for Wastewater Treatment Plants.**](#) This draft assessment used hypothetical scenarios to evaluate the health risk of human exposure to PFOS and PFOA found in sewage sludge biosolids that were either land applied for beneficial reuse or surface disposal. The draft risk assessment is not a rule and does not require any action, but it is a step in determining whether regulating PFOA and PFOS in sewage sludge is appropriate under the federal Clean Water Act.

Landfill leachate, water that has filtered through our lined landfill cells, is collected at Ivy and transported to Moores Creek for treatment in the wastewater system. We haul about 5000 gallons per day to Moores Creek.





Proposed Legislation from the General Assembly

1. SB 1319 – Department of Environmental Quality; industrial wastewater; publicly owned treatment works; PFAS monitoring. Directs the Department of Environmental Quality to require quarterly monitoring for one year for per- and polyfluoroalkyl substances (PFAS) for every industrial wastewater source that discharges pollutants into a publicly owned treatment works.
2. HB 2482 - Virginia Public Procurement Act; competitive sealed bidding; required criteria in invitations to bid for certain construction projects. The bill provides that, for nontransportation-related construction projects in excess of \$250,000, shall require at least 12.5 percent of total labor hours of any required construction be performed by individuals registered with and enrolled in approved apprenticeship programs.

Spring E-Waste Special Collection

The Ivy Solid Waste and Recycling Center will be the site for our Spring 2025 e-Waste Collection on Saturday, April 19th. This event provides free disposal of electronic waste for residents of Albemarle County and the City of Charlottesville. Space is limited and **Pre-registration is required and a link will be provided on March 19th at:** www.rivanna.org/ewaste



Special Tire Collection Event at Southern Albemarle Convenience Center



www.rivanna.org/hhw

During community outreach events, we heard from residents about the desire for Special Collection Days at the Southern Albemarle Convenience Center (SACC), 6269 Esmont Rd., Keene, VA. In response, a one-day Tire Collection Event has been proposed for Saturday, March 8, 2025, from 8AM – 4PM. Residents of Albemarle County may dispose of tires at no cost on this day. Limited to 12 tires per household; large tires are not accepted. Due to limited space at the SACC to store tires during this event, a total of 50 reservations will be accepted. Advance registration for this event is required.

STRATEGIC PLAN PRIORITY: EMPLOYEE DEVELOPMENT

Diversity Awareness Workshop



Our Strategic Plan Workforce Development team partnered with an external consultant to provide a diversity awareness workshop for our management staff on December 12th. Training included diversity, gender equity, mentoring, respect, dignity and trust in the workplace.

STRATEGIC PLAN PRIORITY: COMMUNICATION AND COLLABORATION

Community Outreach



On Wednesday, November 20, 2024, we welcomed the Monticello Garden Club for a tour of the Ivy Solid Waste & Recycling Center.



Phil McKalips, Director of Solid Waste, gave a presentation at the Yancey Community Meeting on November 21, 2024, discussing recycling options at the Southern Albemarle Convenience Center.

**MEMORANDUM**

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

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

REVIEWED: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: NOVEMBER 2024 FINANCIAL SUMMARY

DATE: JANUARY 28, 2025

Total operating revenues for the first five months of this fiscal year totaled \$2,482,700, and total operating expenses were \$4,229,400, which resulted in a \$1,746,600 net operating loss. Funding support for operations and remediation of \$2,157,500 has been received through November, and the Authority has processed 96,246 tons of waste and recycling products. A breakdown of net revenue or cost per ton, including overhead and administrative support costs, is shown below.

	<u>Ivy Operations</u>	<u>Ivy Transfer</u>	<u>Recycling</u>	<u>Total</u>
Tonnage	67,595	27,729	922	96,246
Net operating income (loss)	\$ (133,002)	\$ (489,521)	\$ (596,738)	\$ (1,219,261)
Net operating income (loss) per ton	\$ (1.97)	\$ (17.65)	\$ (647.22)	\$ (12.67)

Attachments

**Rivanna Solid Waste Authority
Revenue and Expense Summary Report
FY 2025**

For November 2024

	Budget FY 2025	Budget YTD	Actual YTD	Variance \$	Variance %
--	---------------------------	-----------------------	-----------------------	------------------------	-----------------------

Revenues

Ivy Operations Tipping Fees	\$ 1,360,450	\$ 566,854	\$ 558,049	\$ (8,805)	-1.55%
Ivy Environmental Revenues	-	-	-	-	
Ivy MSW Transfer Tipping Fees	3,804,850	1,585,354	1,703,313	117,959	7.44%
County Convenience Centers	60,000	25,000	28,814	3,814	15.26%
Recycling Revenues	285,000	118,750	126,376	7,626	6.42%
Other Revenues Administration	80,000	8,333	66,181	57,848	694.18%

Total Revenues	\$ 5,590,300	\$ 2,304,292	\$ 2,482,734	\$ 178,442	7.74%
----------------	--------------	--------------	--------------	------------	-------

Expenses

Ivy Operations	\$ 1,099,541	\$ 458,142	\$ 575,887	\$ (117,745)	-25.70%
Ivy Environmental	1,105,926	460,803	389,168	71,635	15.55%
Ivy MSW Transfer	4,659,079	1,941,283	2,077,670	(136,387)	-7.03%
County Convenience Centers	828,216	345,090	322,955	22,135	6.41%
Recycling Operations	841,582	350,659	336,842	13,817	3.94%
Administration	1,291,034	537,931	526,838	11,093	2.06%

Total Expenses	\$ 9,825,378	\$ 4,093,907	\$ 4,229,360	\$ (135,452)	-3.31%
----------------	--------------	--------------	--------------	--------------	--------

Net Operating Income (Loss)	\$ (4,235,078)	\$ (1,789,616)	\$ (1,746,626)	\$ 42,990	2.40%
------------------------------------	-----------------------	-----------------------	-----------------------	------------------	--------------

Other Funding Sources

Local Government Support	\$ 2,765,841	\$ 1,152,434	\$ 1,382,921	\$ 230,487	20.00%
Environmental Support	1,469,237	612,182	774,609	162,427	26.53%
Subtotal	\$ 4,235,078	\$ 1,764,616	\$ 2,157,530	\$ 392,914	22.27%

Net Income (Loss)	\$ -	\$ (25,000)	\$ 410,904	\$ 385,904	
--------------------------	-------------	--------------------	-------------------	-------------------	--

<u>Local Support Detail</u>		Annualized Payments		True-up Est.
				Due to / (Due from)
County - Ivy Operations	\$ 41,849	\$ 23,687	\$ 17,437	\$ (115,565)
County - Ivy Transfer	1,156,987	488,328	482,078	(7,443)
County - Convenience Centers	768,216	320,090	320,090	25,949
County - Recycling	559,152	236,480	232,980	21,162
County - Environmental MOU	896,069	373,362	448,035	-
	<u>\$ 3,422,274</u>	<u>\$ 1,441,947</u>	<u>\$ 1,500,620</u>	<u>\$ (75,897)</u>
City - Recycling	\$ 239,637	\$ 101,349	\$ 99,849	9,069
City - Environmental MOU	493,185	205,494	246,593	-
	<u>\$ 732,822</u>	<u>\$ 306,843</u>	<u>\$ 346,441</u>	<u>\$ 9,069</u>
UVa - Environmental MOU	\$ 79,982	\$ 33,326	\$ 79,982	\$ 162,427
Total Local Support	\$ 4,235,078	\$ 1,782,116	\$ 1,927,043	\$ 95,600

Rivanna Solid Waste Authority
Fiscal Year 2025 - November 2024
Revenue and Expense Summary Report

Ivy Operations

FY 2025			Variance \$	Variance %
Budget FY 2025	Budget YTD	Actual YTD		

Revenues

Clean fill material	\$ 728,000	\$ 303,333	\$ 342,656	39,323	12.96%
Grindable material	486,000	202,500	163,264	(39,236)	-19.38%
Tires whole	50,350	20,979	5,746	(15,233)	-72.61%
Tires and white good per item	21,100	8,792	18,368	9,576	108.93%
Material Sales	75,000	31,250	28,015	(3,235)	-10.35%
Total Operations Revenues	\$ 1,360,450	\$ 566,854	\$ 558,049	\$ (8,805)	-1.55%

Expenses

Personnel Cost	\$ 377,941	\$ 157,475	\$ 174,292	\$ (16,816)	-10.68%
Professional Services	-	-	-	-	
Other Services and Charges	29,700	12,375	19,803	(7,428)	-60.03%
Communications	18,900	7,875	6,125	1,750	22.22%
Information Technology	25,000	10,417	4,221	6,195	59.47%
Vehicles and Equip. Maintenance	82,000	34,167	54,694	(20,527)	-60.08%
Supplies	4,000	1,667	413	1,253	75.21%
Operations and Maintenance	362,000	150,833	233,005	(82,172)	-54.48%
Environmental Remediations	-	-	-	-	
Equipment Replacement	200,000	83,333	83,333	(0)	0.00%
Total Operations Expenses	\$ 1,099,541	\$ 458,142	\$ 575,887	\$ (117,745)	-25.70%
Allocation of Administration Costs	302,758	132,399	115,164	17,235	13.02%
Expenses With Admin Allocations	\$ 1,402,299	\$ 590,541	\$ 691,051	\$ (100,510)	-17.02%
Net Operating Income (Loss)	\$ (41,849)	\$ (23,687)	\$ (133,002)	(109,315) (109,315)	461.49%

Summary of Local Support					
County	\$ 41,849	\$ 23,687	\$ 17,437	\$ 6,250	
	\$ 41,849	\$ 23,687	\$ 17,437	\$ 6,250	

Estimated True-up \$ (115,565)

Rivanna Solid Waste Authority
Fiscal Year 2025 - November 2024
Revenue and Expense Summary Report

Ivy Environmental

Revenues

Forestry Management Revenue

FY 2025			Variance \$	Variance %
Budget FY 2025	Budget YTD	Actual YTD		

\$	-	\$	-	\$	-	-
----	---	----	---	----	---	---

Total Operations Revenues

\$	-	\$	-	\$	-	\$	-
----	---	----	---	----	---	----	---

Expenses

Personnel Cost	\$ 230,426	\$ 96,011	\$ 101,335	\$ (5,324)	-5.55%
Professional Services	40,000	16,667	76	16,591	99.55%
Other Services and Charges	8,200	3,417	2,823	593	17.37%
Communications	5,300	2,208	142	2,066	93.57%
Information Technology	-	-	371	(371)	
Vehicles and Equip. Maintenance	22,000	9,167	11,962	(2,795)	-30.49%
Supplies	-	-	-	-	
Operations and Maintenance	220,000	91,667	48,927	42,740	46.63%
Environmental Remediations	270,000	112,500	94,365	18,135	16.12%
Equipment Replacement	310,000	129,167	129,167	0	0.00%

Total Operations Expenses

\$ 1,105,926	\$ 460,803	\$ 389,168	\$ 71,635	15.55%
--------------	------------	------------	-----------	--------

Allocation of Administration Costs

363,310	158,879	138,197	20,682	13.02%
---------	---------	---------	--------	--------

Expenses With Admin Allocations

\$ 1,469,237	\$ 619,682	\$ 527,365	\$ 92,317	14.90%
--------------	------------	------------	-----------	--------

Net Operating Income (Loss)

\$ (1,469,237)	\$ (619,682)	\$ (527,365)	92,317	-14.90%
----------------	--------------	--------------	--------	---------

Summary of Local Support				
County	\$ 896,069	\$ 373,362	\$ 448,035	\$ (74,672)
City	493,185	205,494	246,593	\$ (41,099)
Uva	79,982	33,326	79,982	(46,656)
	\$ 1,469,237	\$ 612,182	\$ 774,609	\$ (162,427)

Rivanna Solid Waste Authority
Fiscal Year 2025 - November 2024
Revenue and Expense Summary Report

Ivy Transfer Station

Revenues

MSW / Construction Debris	\$ 3,701,850	\$ 1,542,438	\$ 1,632,037	\$ 89,600	5.81%
Compostable Material	-	-	366	366	
Service Charges / other revenues	103,000	42,917	70,910	27,994	65.23%
Total Operations Revenues	\$ 3,804,850	\$ 1,585,354	\$ 1,703,313	\$ 117,959	7.44%

Expenses

Personnel Cost	\$ 712,652	\$ 296,938	\$ 316,662	\$ (19,724)	-6.64%
Professional Services	-	-	-	-	
Other Services and Charges	52,000	21,667	18,272	3,395	15.67%
Communications	16,600	6,917	15,878	(8,961)	-129.56%
Information Technology	55,000	22,917	1,945	20,971	91.51%
Vehicles and Equip. Maintenance	110,000	45,833	41,704	4,129	9.01%
Supplies	10,000	4,167	1,240	2,927	70.25%
Operations and Maintenance	3,574,327	1,489,303	1,631,969	(142,666)	-9.58%
Environmental Remediations	3,500	1,458	-	1,458	100.00%
Equipment Replacement	125,000	52,083	50,000	2,083	4.00%
Total Operations Expenses	\$ 4,659,079	\$ 1,941,283	\$ 2,077,670	\$ (136,387)	-7.03%
Allocation of Administration Costs	302,758	132,399	115,164	17,235	13.02%
Expenses With Admin Allocations	\$ 4,961,837	\$ 2,073,682	\$ 2,192,834	\$ (119,152)	-5.75%

Net Operating Income (Loss)	\$ (1,156,987)	\$ (488,328)	\$ (489,521)	(1,193)	0.24%
-----------------------------	----------------	--------------	--------------	---------	-------

Summary of Local Support					
County	\$ 1,156,987	\$ 488,328	\$ 482,078	\$ 6,250	
City	-	-	-	-	
	\$ 1,156,987	\$ 488,328	\$ 482,078	\$ 6,250	

Estimated True-up	\$ (7,443)
-------------------	------------

Rivanna Solid Waste Authority
Fiscal Year 2025 - November 2024
Revenue and Expense Summary Report

County Convenience Centers

FY 2025			Variance \$	Variance %
Budget FY 2025	Budget YTD	Actual YTD		

Revenues

Material Sales	\$ 60,000	\$ 25,000	\$ 28,814	\$ 3,814	15.26%
Total Operations Revenues	\$ 60,000	\$ 25,000	\$ 28,814	\$ 3,814	15.26%

Expenses

Personnel Cost	\$ 558,716	\$ 232,798	\$ 254,333	\$ (21,535)	-9.25%
Professional Services	-	-	1,334	(1,334)	
Other Services and Charges	16,300	6,792	5,167	1,624	23.92%
Communications	18,200	7,583	7,911	(328)	-4.32%
Information Technology	-	-	957	(957)	
Vehicles and Equip. Maintenance	155,000	64,583	24,005	40,579	62.83%
Supplies	-	-	-	-	
Operations and Maintenance	15,000	6,250	2,165	4,085	65.36%
Environmental Remediations	-	-	-	-	
Equipment Replacement	65,000	27,083	27,083	(0)	0.00%
Total Operations Expenses	\$ 828,216	\$ 345,090	\$ 322,955	\$ 22,135	6.41%
Allocation of Administration Costs	-	-	-	-	
Expenses With Admin Allocations	\$ 828,216	\$ 345,090	\$ 322,955	\$ 22,135	6.41%
Net Operating Income (Loss)	\$ (768,216)	\$ (320,090)	\$ (294,141)	25,949	-8.11%

Summary of Local Support				
County	\$ 768,216	\$ 320,090	\$ 320,090	\$ -
	\$ 768,216	\$ 320,090	\$ 320,090	\$ -

Estimated True-up \$ 25,949

Rivanna Solid Waste Authority
Fiscal Year 2025 - November 2024
Revenue and Expense Summary Report

FY 2025				
Budget FY 2025	Budget YTD	Actual YTD	Variance \$	Variance %

Recycling

McIntire & Paper Sort

Revenues

Material Sales & other revenues	\$ 250,000	\$ 104,167	\$ 73,679	\$ (30,488)	-29.27%
Grants	35,000	14,583	52,697	38,114	261.35%

Total Operations Revenues

\$ 285,000	\$ 118,750	\$ 126,376	\$ 7,626	6.42%
------------	------------	------------	----------	-------

Expenses

Personnel Cost	\$ 457,432	\$ 190,597	\$ 205,161	\$ (14,564)	-7.64%
Professional Services	-	-	4,950	(4,950)	
Other Services and Charges	57,100	23,792	18,088	5,704	23.97%
Communications	3,400	1,417	3,407	(1,990)	-140.49%
Information Technology	-	-	758	(758)	0.00%
Vehicles and Equip. Maintenance	129,600	54,000	31,126	22,874	42.36%
Supplies	1,050	438	-	438	100.00%
Operations and Maintenance	93,000	38,750	31,686	7,064	18.23%
Environmental Remediations	-	-	-	-	0.00%
Equipment Replacement	100,000	41,667	41,667	0	0.00%

Total Operations Expenses

\$ 841,582	\$ 350,659	\$ 336,842	\$ 13,817	3.94%
------------	------------	------------	-----------	-------

Allocation of Administration Costs

242,207	105,919	92,131	13,788	13.02%
---------	---------	--------	--------	--------

Expenses With Admin Allocations

\$ 1,083,789	\$ 456,579	\$ 428,973	\$ 27,605	6.05%
--------------	------------	------------	-----------	-------

Net Operating Income (Loss)

\$ (798,789)	\$ (337,829)	\$ (302,597)	35,232	-10.43%
--------------	--------------	--------------	--------	---------

Summary of Local Support				
County	\$ 559,152	\$ 236,480	\$ 232,980	\$ 3,500
City	239,637	101,349	99,849	1,500
	\$ 798,789	\$ 337,829	\$ 332,829	\$ 5,000

Estimated True-up - County

\$ 21,162

Estimated True-up - City

\$ 9,069

Rivanna Solid Waste Authority
Fiscal Year 2025 - November 2024
Revenue and Expense Summary Report

Administration

Revenues

FY 2025					
Budget FY 2025	Budget YTD	Actual YTD	Variance \$	Variance %	
Interest revenues	\$ 65,000	\$ 2,083	\$ 56,063	\$ 53,980	2591.04%
Late Fees	15,000	6,250	10,118	3,868	61.89%
Total Operations Revenues	\$ 80,000	\$ 8,333	\$ 66,181	\$ 57,848	694.18%
Expenses					
Personnel Cost	\$ 196,634	\$ 81,931	\$ 89,606	\$ (7,676)	-9.37%
Professional Services	105,000	43,750	10,109	33,641	76.89%
Other Services and Charges	974,700	406,125	415,408	(9,283)	-2.29%
Communications	5,700	2,375	1,681	694	29.24%
Information Technology	8,000	3,333	4,275	(942)	-28.25%
Vehicles and Equip. Maintenance	-	-	2,276	(2,276)	
Supplies	1,000	417	784	(367)	-88.08%
Operations and Maintenance	-	-	2,700	(2,700)	
Environmental Remediations	-	-	-	-	
Equipment Replacement	-	-	-	-	
Subtotal Before Allocations	\$ 1,291,034	\$ 537,931	\$ 526,838	\$ 11,093	2.06%
Net Operating Income (Loss)	\$ (1,211,034)	\$ (529,597)	\$ (460,656)	68,941	-13.02%

Allocation to Cost Centers (per agreement)						
	Allocation %					
Ivy Operations	25%	\$ 302,758	\$ 132,399	\$ 115,164	\$ 17,235	-61.96%
Ivy Environmental	30%	363,310	158,879	138,197	20,682	-61.96%
Ivy Transfer	25%	302,758	132,399	115,164	17,235	-61.96%
County Convenience Centers	0%	-	-	-	-	
Recycling	20%	242,207	105,919	92,131	13,788	-61.96%
Total Allocation to Cost Centers	100%	\$ 1,211,034	\$ 529,597	\$ 460,656	\$ 68,941	-61.96%

December 1-31, 2024

Days of

Operation: 25

Operation: 25		MSW collected at Transfer Station (tons)						Non-MSW
	Vehicles	Count	Citizen-Can	Construction	Domestic	MSW Total	Total Tons	
12/01/24	Sunday					-		
12/02/24	Monday	250	311	3.11	77.81	177.89	258.81	270.68
12/03/24	Tuesday	203	264	0.57	82.71	114.25	197.53	209.47
12/04/24	Wednesday	228	288	0.50	83.34	120.36	204.20	421.45
12/05/24	Thursday	167	203	1.37	48.24	121.41	171.02	156.66
12/06/24	Friday	198	234	0.67	64.59	86.02	151.28	169.85
12/07/24	Saturday	237	353	0.71	17.71	34.16	52.58	37.92
12/08/24	Sunday					-		
12/09/24	Monday	237	297	1.75	102.98	145.61	250.34	136.73
12/10/24	Tuesday	205	256	0.47	55.14	94.08	149.69	336.69
12/11/24	Wednesday	152	154	0.38	89.23	104.38	193.99	50.31
12/12/24	Thursday	243	314	1.10	201.51	131.13	333.74	277.68
12/13/24	Friday	238	302	0.56	64.15	128.79	193.50	524.90
12/14/24	Saturday	229	281	0.95	21.61	45.59	68.15	3.71
12/15/24	Sunday					-		
12/16/24	Monday	212	246	1.56	55.93	164.88	222.37	386.36
12/17/24	Tuesday	222	267	0.51	82.80	110.44	193.75	400.87
12/18/24	Wednesday	207	235	0.49	82.92	97.26	180.67	202.93
12/19/24	Thursday	222	270	1.53	60.55	163.81	225.89	272.35
12/20/24	Friday	224	247	0.60	64.52	97.36	162.48	153.83
12/21/24	Saturday	189	225	0.84	21.43	32.53	54.80	20.86
12/22/24	Sunday					-		
12/23/24	Monday	260	307	2.26	41.86	197.21	241.33	142.41
12/24/24	Tuesday	113	141	0.53	29.47	108.53	138.53	7.30
12/25/24	Wednesday					-		
12/26/24	Thursday	223	259	1.23	42.73	144.60	188.56	71.34
12/27/24	Friday	245	312	0.76	23.19	106.49	130.44	20.95
12/28/24	Saturday	171	361	0.71	9.86	63.62	74.19	3.46
12/29/24	Sunday					-		
12/30/24	Monday	277	431	3.05	37.87	180.02	220.94	42.15
12/31/24	Tuesday	208	266	0.88	44.97	105.35	151.20	45.70
Total		5,360	6,824	27.09	1,507.12	2,875.77	4,409.98	4,366.56
Average		214	273	1.08	60.28	115.03	176.40	174.66
Median		222	267	0.76	55.93	110.44	188.56	153.83
Maximum		277	431	3.11	201.51	197.21	333.74	524.90
Minimum		113	141	0.38	9.86	32.53	52.58	3.46

Material Type & Description

Citizen-Can: Roll-off container at the Ivy MUC Convenience Center-citizens dispose of prepaid trashbags

Construction: Construction/demolition debris (shingles, sheetrock, treated lumber, etc.)

Count: Transactions per item (appliances, hauling fees, service fees, tag-bag stickers, tires,

Domestic: Business/residential general or household waste

MSW: Materials processed/handled at the Transfer Station

Non-MSW: Materials processed/handled on-site

Vehicle: Transactions or vehicles processed in a day

November 1-30, 2024

Days of

Operation: **25**

Operation: 25		MSW collected at Transfer Station (tons)						Non-MSW
		Vehicles	Count	Citizen-Can	Construction	Domestic	MSW Total	Total Tons
11/01/24	Friday	262	303	0.55	121.10	117.22	238.87	430.90
11/02/24	Saturday	303	377	0.83	13.71	40.00	54.54	60.40
11/03/24	Sunday						-	
11/04/24	Monday	298	347	1.48	160.93	196.26	358.67	581.59
11/05/24	Tuesday	255	320	0.72	174.61	89.39	264.72	261.04
11/06/24	Wednesday	242	286	0.63	164.84	105.64	271.11	355.06
11/07/24	Thursday	264	357	1.38	135.02	141.70	278.10	272.01
11/08/24	Friday	238	278	0.38	78.61	93.99	172.98	251.42
11/09/24	Saturday	296	341	0.79	23.53	46.00	70.32	17.58
11/10/24	Sunday						-	
11/11/24	Monday	249	270	1.22	93.23	177.46	271.91	197.59
11/12/24	Tuesday	260	301	0.55	92.35	137.68	230.58	671.04
11/13/24	Wednesday	319	370	0.61	153.56	145.84	300.01	723.93
11/14/24	Thursday	253	281	1.11	70.98	131.96	204.05	939.71
11/15/24	Friday	259	337	0.40	50.04	89.95	140.39	1,234.26
11/16/24	Saturday	238	346	0.99	19.19	41.71	61.89	5.68
11/17/24	Sunday						-	
11/18/24	Monday	329	374	1.47	99.43	180.21	281.11	1,154.59
11/19/24	Tuesday	278	357	0.47	64.24	106.37	171.08	586.47
11/20/24	Wednesday	257	338	0.66	87.13	114.03	201.82	609.24
11/21/24	Thursday	224	240	1.43	90.63	121.82	213.88	407.72
11/22/24	Friday	271	324	0.65	53.73	101.29	155.67	572.01
11/23/24	Saturday	280	364	0.75	16.18	52.81	69.74	13.28
11/24/24	Sunday						-	
11/25/24	Monday	261	325	1.94	81.15	159.53	242.62	390.16
11/26/24	Tuesday	277	299	0.56	86.15	143.75	230.46	280.37
11/27/24	Wednesday	282	343	1.02	68.52	178.03	247.57	34.02
11/28/24	Thursday						-	
11/29/24	Friday	207	304	0.67	19.21	185.09	204.97	11.94
11/30/24	Saturday	213	344	0.97	9.30	82.00	92.27	8.33
Total		6,615	8,126	22.23	2,027.37	2,979.73	5,029.33	10,070.34
Average		265	325	0.89	81.09	119.19	201.17	402.81
Median		261	337	0.75	81.15	117.22	213.88	355.06
Maximum		329	377	1.94	174.61	196.26	358.67	1,234.26
Minimum		207	240	0.38	9.30	40.00	54.54	5.68

Material Type & Description

Citizen-Can: Roll-off container at the Ivy MUC Convenience Center-citizens dispose of prepaid trashbags

Construction: Construction/demolition debris (shingles, sheetrock, treated lumber, etc.)

Count: Transactions per item (appliances, hauling fees, service fees, tag-bag stickers, tires)

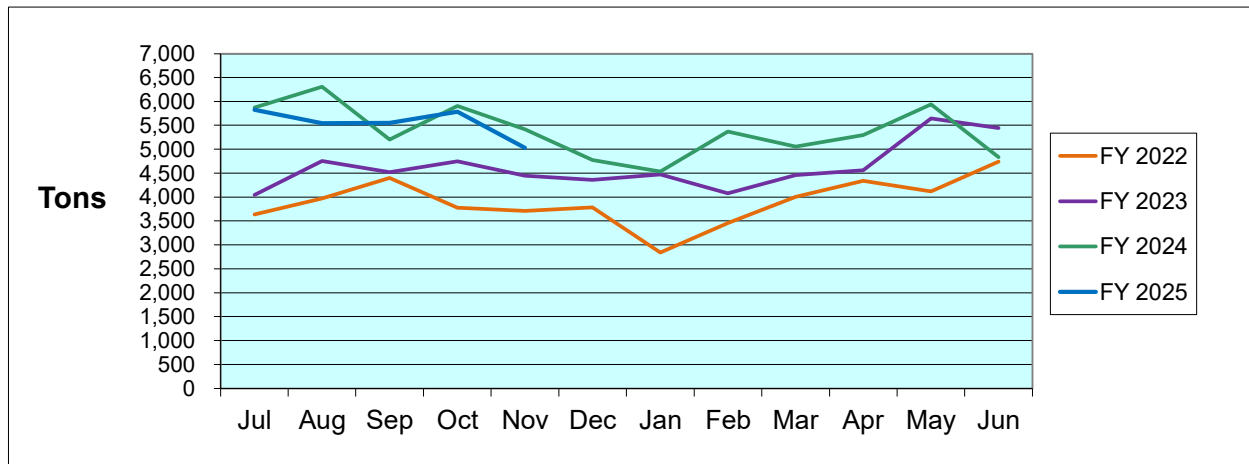
Domestic: Business/residential general or household waste

MSW: Materials processed/handled at the Transfer Station

Non-MSW: Materials processed/handled on-site

Vehicle: Transactions or vehicles processed in a day

Rivanna Solid Waste Authority
Ivy MSW Transfer Tonnages
FY 2022 - 2025





MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

**FROM: DAVID RHOADES, SOLID WASTE MANAGER
PHILLIP MCKALIPS, DIRECTOR OF SOLID WASTE**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: IVY SOLID WASTE AND RECYCLING CENTER REPORT/
RECYCLING OPERATIONS UPDATE**

DATE: JANUARY 28, 2025

Ivy Solid Waste And Recycling Center (ISWRC) : DEQ Permit 132: 450 tons/day MSW limit

November 2024

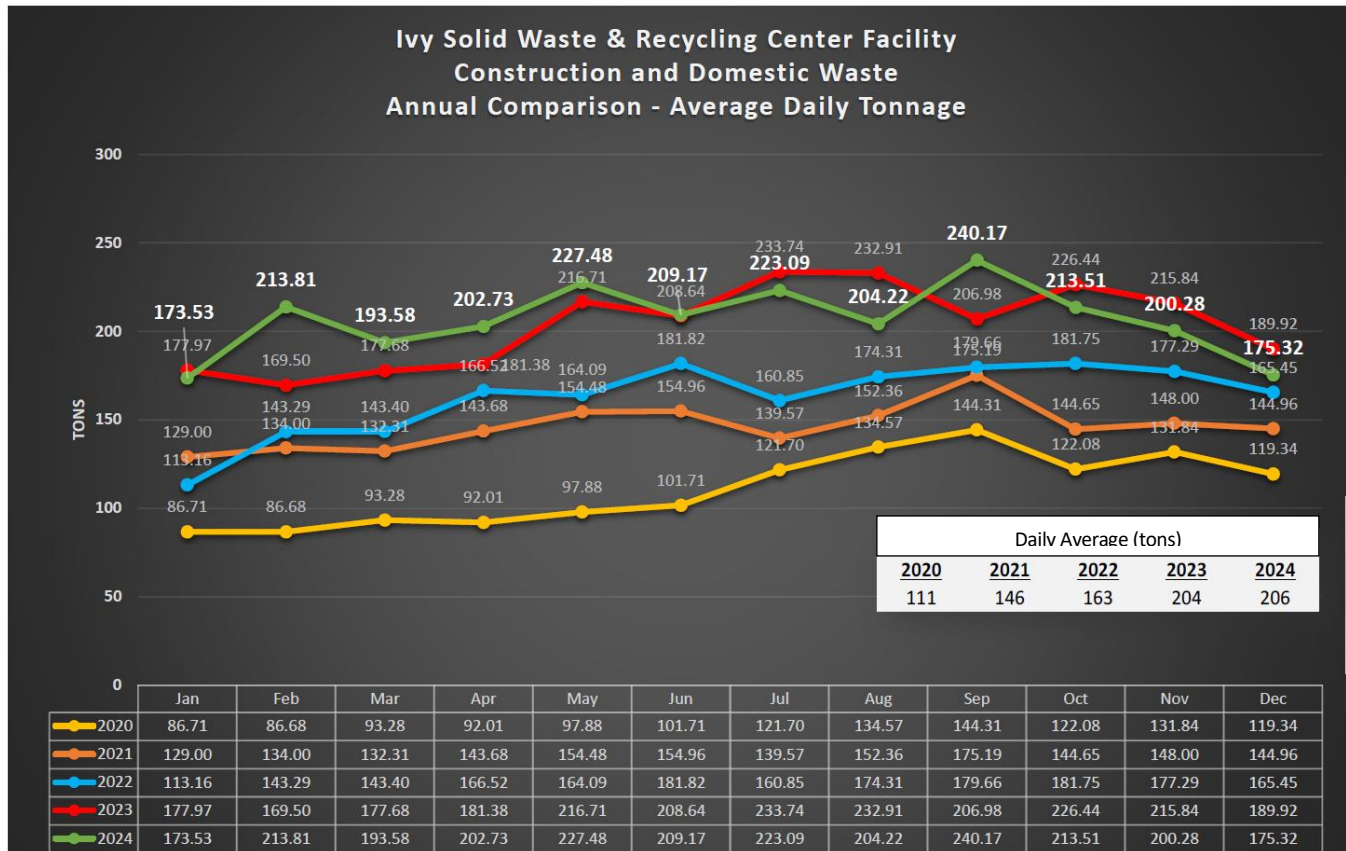
- **6,615 vehicles crossed the scales**
- The ISWRC transfer station operated for 25 days and received a total of 5,029.33 tons of municipal solid waste (MSW), an average of 201.17 tons per day of operation. The monthly transfer station tonnage figures are attached to this report.
- 10,070.34 tons of non-MSW materials were received
- 15,099.67 tons were received as a combined total tonnage (MSW + non-MSW)

December 2024

- **5,360 vehicles crossed the scales**
- The ISWRC transfer station operated for 25 days and received a total of 4,409.98 tons of municipal solid waste (MSW), an average of 176.40 tons per day of operation. The monthly transfer station tonnage figures are attached to this report.
- 4,366.56 tons of non-MSW materials were received
- 8,776.54 tons were received as a combined total tonnage (MSW + non-MSW)

Transfer Station Update

Our average daily tonnages are generally following seasonal trends, as shown in the following figure.



Outreach

RSWA staff conducted the following communication and outreach activities:

- November 20, 2024 – Tour of the ISWRC for the Monticello Gardening Club
- November 21, 2024 – Presented an update on recycling activities at the Yancey Community Meeting
- November 26, 2024 – Interviewed by NBC 29 regarding RSWA donation of insulated reusable shopping bags to the Blue Ridge Area Food Bank
- December 2, 2024 – Interviewed by NBC 29 regarding the future of Landfill capacity in Virginia
- December 27, 2024 – Interviewed by NBC 29 regarding published report that recycling rates have dropped regionally and nationally



MEMORANDUM

TO: RIVANNA SOLID WASTE AUTHORITY BOARD OF DIRECTORS

FROM: BETSY NEMETH, DIRECTOR OF ADMINISTRATION AND COMMUNICATIONS

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: ADMINISTRATION AND COMMUNICATIONS REPORT

DATE: JANUARY 28, 2025

Human Resources

Fiscal year-to-date turnover through January 3, 2025, is 10.7%, which includes one retirement and is under our Strategic Plan goal of 15% maximum turnover.

We are pleased to welcome Kyle Booker to the team as our newest Operator/Attendant. Kyle started with us on December 19, 2024.

Our managers and members of our Workforce Development goal team attended a Diversity Awareness Workshop presented by the Diversity Training Group out of Herndon, VA.

We held our annual Holiday Luncheon for all employees on December 18, 2024. Everyone enjoyed the networking and a good lunch from Firehouse Subs.

Safety

Our new incident reporting system officially went live on January 1, 2025. Any incidents are now reported through Paychex.

Community Outreach

On November 20, 2024, we welcomed the Monticello Garden Club for a tour of the Ivy Solid Waste & Recycling Center.

Phil McKalips gave a recycling presentation at the Yancey Community Meeting on November 21, 2024.

On November 26, 2024, the Rivanna Solid Waste Authority donated 1000 insulated grocery bags to the Blue Ridge Area Food Bank to help with distribution of food for Thanksgiving.

**MEMORANDUM**

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

FROM: PHILLIP MCKALIPS, DIRECTOR OF SOLID WASTE

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: AWARD OF CONSTRUCTION CONTRACT FOR THE RECYCLED
MATERIALS BALING FACILITY – R2BUILD, INC.**

DATE: JANUARY 28, 2025

This request is to authorize award of a construction contract totaling \$3.84 M to “R2Build” from Vienna, VA for completion of a pre-engineered metal Baling Facility totaling 16,800 SF at the Ivy Solid Waste and Recycling Center (ISWRC).

Background

RSWA currently operates a Paper Sort Facility on a leased site off Meade Avenue. At this facility, recycled materials such as mixed brown paper, file stock, cardboard, and newspaper are collected, sorted, baled, and placed into trailers for distribution to the recovery market. As the volume of materials to be recycled continued to grow in our community, it became apparent that a new, larger baling facility was needed. A Preliminary Engineering Report for a new Baling Facility was completed and a site near the rear of the ISWRC was selected. The final design was completed, and the project was advertised for competitive sealed bids on December 6, 2024. A pre-bid conference was held with interested contractors on December 19, 2024. Construction bids were opened on January 14, 2025, and one bid was received for \$3,840,000.

Our design engineer has reviewed the bid received from R2Build and determined that the contractor and bid are both responsible and responsive. The bid amount was less than the engineer’s anticipated construction cost. Therefore, we are recommending award of the contract to R2Build as the low bidder for a fair and reasonable contract price of \$3.84 M. Project costs for the Baling Facility including design, construction, construction administration, inspections, a second new baling machine and other equipment, as well as repairs to the Paper Sort and staff buildings, total \$6 M and are less than the anticipated project budget of \$6.4 M. Project costs will be funded by Albemarle County (70%) and the City of Charlottesville (30%) in accordance with the “Local Government Support Agreement for Recycling Programs” of 2011.

Board Action Requested:

Authorize the Executive Director to execute a construction contract with R2Build, Inc. for \$3.84 M to complete the Baling Facility project, and any change orders up to 10% of the original contract amount.



MEMORANDUM

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

FROM: PHILLIP MCKALIPS, DIRECTOR OF SOLID WASTE

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: APPROVAL OF SPECIAL TIRE COLLECTION EVENT AT
SOUTHERN ALBEMARLE CONVENIENCE CENTER**

DATE: JANUARY 28, 2025

This request is for approval of a Special Collection Event to be held on Saturday, March 8, 2025, at the Southern Albemarle Convenience Center for collection of tires from residents with an estimated cost of \$10,000 to be supported by the County.

Background

During the public outreach efforts by Albemarle County in preparation for construction of the Southern Albemarle Convenience Center (SACC), statements were made that one of the community benefits the facility might offer was to host Special Collection Events (such as Household Hazardous Waste, Electronic Waste, furniture/mattress, appliance, and tire collections). This program has also been discussed with the public during outreach events for the proposed Northern Convenience Center (NCC). At a recent community update meeting at the Yancey Community Center, the topic was again raised by members of the community and the Yancey Program Coordinator. Staff considered several options and determined that a tire collection event would be feasible and beneficial for the community.

Event Details

Our typical Tire Collection Events are held at the Ivy Solid Waste and Recycling Center which allows for an almost unlimited volume of tires to be collected during the event. Space is available to store tires received until they can be hauled to Emanuel Tire in Appomattox, Virginia. The SACC doesn't have the same space resources and therefore the scope of the event must be limited so that regular site operations aren't restricted. Our plan is to host a one-day event on March 8, 2025. We will utilize a voucher system which will limit the number of participants to 50, in much the same way that we use a voucher system for our regular Ewaste Events. As with our regular tire events, each participant will be limited to 12 tires.

The event will have a dedicated staff member on site to manage the tire collection process. Collected tires will be staged on the concrete overflow apron at the rear of the site. Once the event is completed, we will use a small excavator with a hydraulic "thumb" to load the roll-off containers

and haul the tires to Emanuel Tire. Based on the number of tires we might receive (50 participants with 12 tires per participant) we estimate collecting up to 600 tires. Based on our estimate of staff hours, mileage, tire disposal fees, and equipment rental, the event should cost about \$10,000 and will be supported by Albemarle County. Our current plan is to hold the event on Saturday, March 8, 2025, 8 AM to 4 PM, to not conflict with our regular special collection events at the ISWRC that we will host later in the spring. This event will provide a great deal of hands-on experience on how best to provide these kinds of services at the SACC and NCC in the future.

Requested Board Action

Approval of a Special Tire Collection Event to be held on Saturday, March 8, 2025, weather permitting, at the Southern Albemarle Convenience Center for collection of tires from residents, with an estimated cost of \$10,000 to be supported by the County.

**MEMORANDUM**

**TO: RIVANNA SOLID WASTE AUTHORITY
BOARD OF DIRECTORS**

FROM: PHILLIP MCKALIPS, DIRECTOR OF SOLID WASTE

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: CONSIDERATION OF A LONG-RANGE PLANNING
COMMITTEE**

DATE: JANUARY 28, 2025

During the November 19, 2024, Board of Directors meeting, a member of the public, Dr. Liz Palmer, recommended creation of a citizen planning committee to focus on long-range solid waste programs and facilities. Dr. Palmer spoke about the Long Range Solid Waste Solutions Advisory Committee (LRSWSAC) formed in 2014 to identify solid waste best management practices for the County including the possibility of regional cooperation. The committee's report was published on October 7, 2015, and made several immediate and mid-term recommendations to the County. A few of those recommendations include:

- Establish a Sustainable Materials Management Advisory Committee
- Increase recycling options and activities
- Institute education and outreach programs
- Create and staff a County Materials Management Office
- Plan and construct upgrades to facilities in Ivy
- Expand and increase special collections

In response to these recommendations, the County requested RSWA to build a solid waste transfer station (completed in 2018) and a recycling convenience center (completed in 2019) at the ISWRC. The County also developed a Climate Action Plan (October 2020) which incorporated specific strategies and actions toward sustainable materials management with extensive community involvement. A Climate Protection Manager position was also established within the County government to provide continued direction and management of these activities. In 2023, the Southern Albemarle Convenience Center was constructed in Keene and the development of an additional convenience center in the northern part of the county was initiated. This northern convenience facility is expected to open for service in 2027.

To carry on the legacy of the LRSWSAC, the County established the Solid Waste Alternatives Advisory Committee (SWAAC) in 2016 which includes County residents and experts in the recycling and solid waste industry with additional support from UVA and RSWA. The SWAAC continues to be active and holds regular monthly meetings. The County has actively responded to

the suggestions in the 2015 report and has established an organization within the County government to carry on these strategic efforts toward sustainability and climate change. Though not a party to the development of the 2015 report, the City of Charlottesville has also undertaken many of the same activities including development of a climate action plan and establishment of a staffed Office of Sustainability. Regional cooperation continues at many levels between the County, City, RSWA, Thomas Jefferson Planning District Commission, and the Land Use and Environmental Planning Committee (LUEPC) to consider strategic solid waste and recycling planning. The City initiated a “Resilient Together” project (website: ClimateActionTogether.org) and hosted a conference in 2023 with partner organizations to focus on having a strong, safe and healthy community.

We have proposed within our FY 2026 budget a needs assessment study for an additional transfer station to be located somewhere within our service area, as well as a study to develop a design and cost model for the collection of compostable food and yard waste within the City and urban areas of Albemarle County. Through our involvement and coordination with the SWAAC, LUEPC, County and City sustainability departments, as well as our new resources in the Administration and Communications Division along with our Sustainability Coordinator position and Board of Director meetings, the public is readily informed and invited to offer suggestions and keep abreast of our efforts. To establish an additional community committee to focus on these same matters may be redundant.

Board Action Requested:

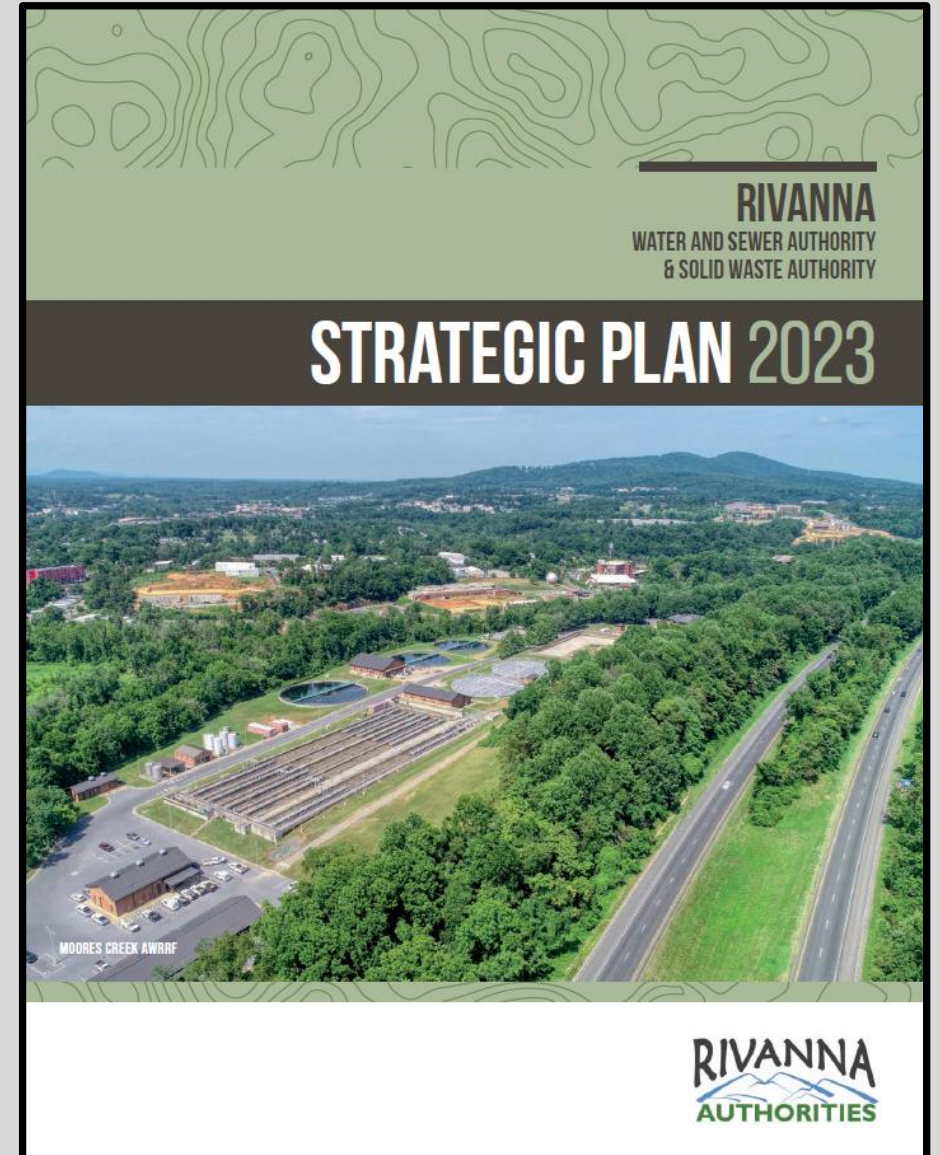
Offer any comments on our recommendation that the creation of a new Community Committee supported by RSWA staffing to focus on long-range planning for solid waste and recycling programs may not be needed at this time.

Rivanna Authorities Strategic Plan Update

Presented to the RSWA and RWSA Boards of
Directors

By Betsy Nemeth, Director of Administration &
Communications

January 28, 2025



Strategic Framework

Vision

To serve the community as a recognized leader in environmental stewardship by providing exceptional water and solid waste services.

Mission

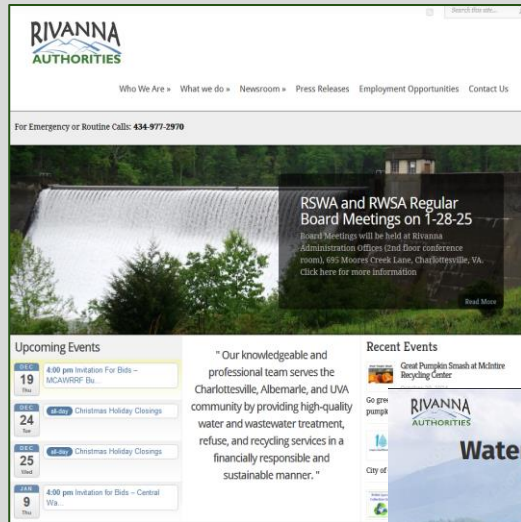
Our knowledgeable and professional team serves the Charlottesville, Albemarle, and UVA community by providing high-quality water and wastewater treatment, refuse, and recycling services in a financially responsible and sustainable manner.

Strategic Framework

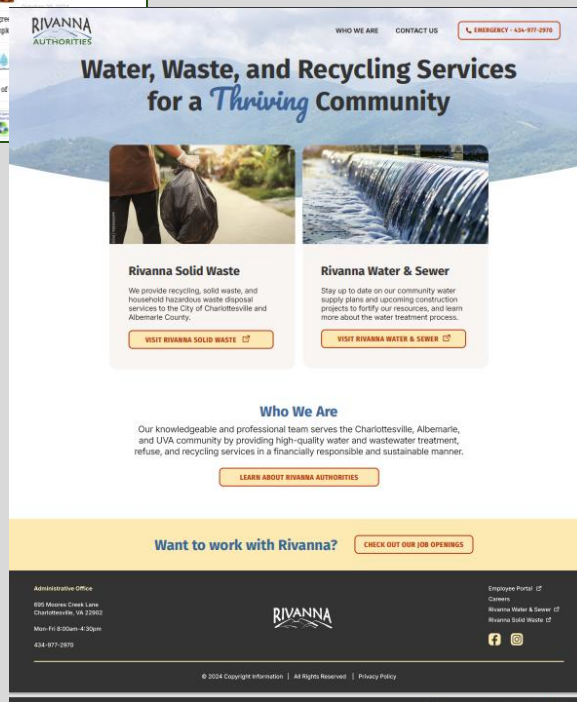
Values

- **Integrity** – We are open and transparent, lead by example, and are committed to ethical behavior.
- **Teamwork** – We work collaboratively to help each other succeed and serve the community.
- **Respect** – We treat our fellow employees, customers, business partners, and stakeholders with dignity and respect by embracing their diverse backgrounds and experiences.
- **Quality** – We deliver exceptional services and products, serve our community responsibly, and safeguard natural resources.

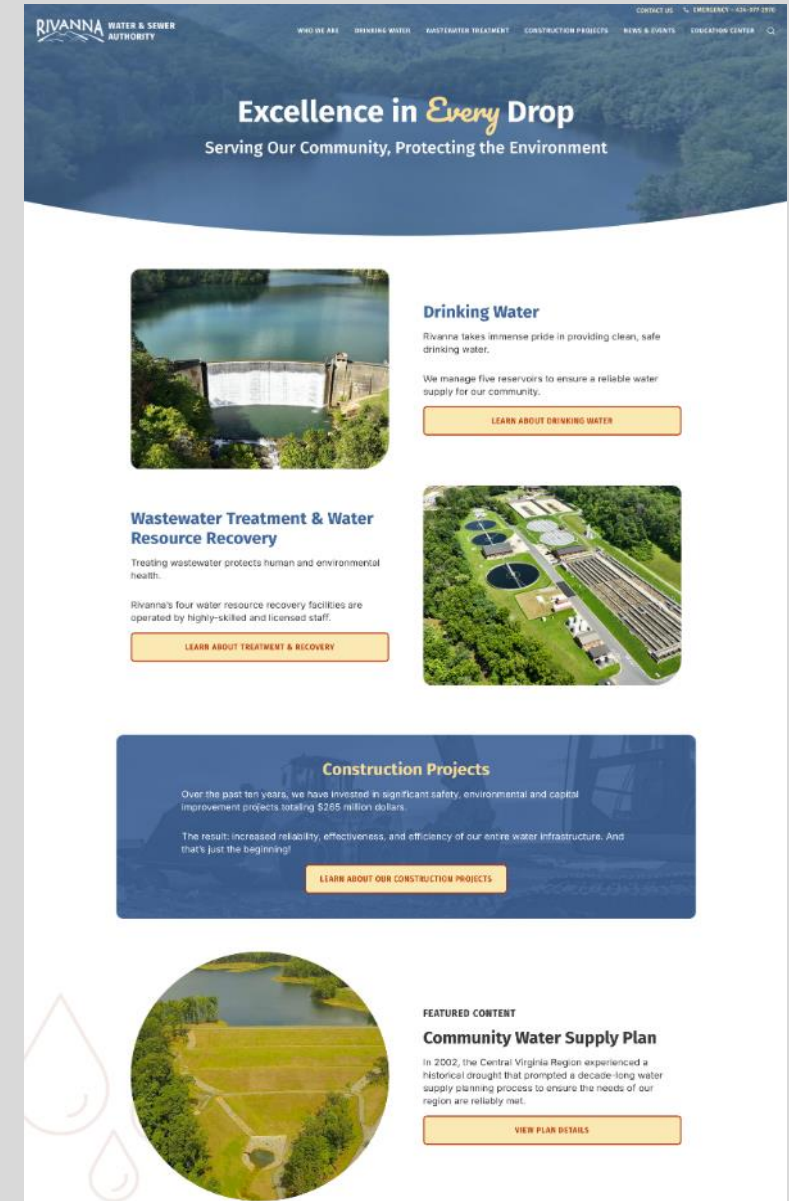
Communication & Collaboration



Current
rivanna.org



www.rivannasolidwaste.com



www.rivannawater.com

Coming this
Spring!

NEW!

www.rivanna.org

Environmental Stewardship

THE ENVIRONMENTAL STEWARDSHIP COMMITTEE'S

FOUND OBJECT ORNAMENT CONTEST

until Dec 17th, 2024

You can help spread joy and love this holiday season by crafting, creating, and upcycling gifts. Shopping locally and with intention is also a great way to celebrate sustainably!

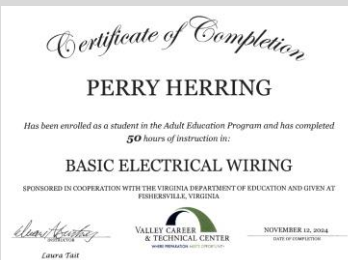
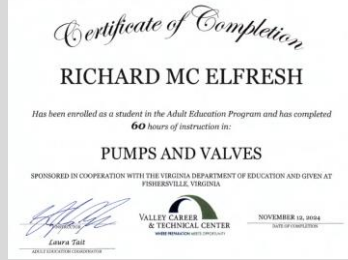
How to participate:
Create and decorate an ornament made from found, reused, or refurbished materials. Drop off submissions to Annie or Betsy!

Voting ends December 20th
Winners announced at January Board Meeting.
There will be prizes!



**And the winner is:
Kenny Lawhorne
Maintenance Dept.**

Workforce Development



2024 College Tuition Reimbursement
Alisa Cooper – PVCC
Brian Haney – PVCC
David Rhoades – SNH University
Leah Beard – Cornell University
Steven Minnis Jr. – PVCC
Duane Houchens – Mountain Empire CC

Diversity Awareness Training for Managers and the Workforce Development team



2024 Internal Promotions

Brad Puffenbarger – Water Asst. Manager
Josh Bowen – Engineering Inspector Supervisor
Cary Wingo – Water Supervisor
Bethany Houchens – Water Resources Coordinator
Michael Webb – Water Quality Specialist
Chris Ragland – SW Operator/Attendant
Jerry Simmons – Recycling Manager
Rodney Bright – SW Driver/Operator
Raashon Aziz – SW Operator/Attendant
Brian Haney – Wastewater Manager
Tom Corrice – Wastewater Asst. Manager
David Tungate – Deputy Executive Director

Optimization & Resiliency

Moore's Creek AWWRF Aeration Basin Operations

- **Electricity Cost Reduction** - The aeration basins require air to help with ammonia removal. Air is supplied by 5 electric blowers. We used to maintain a minimum air flow into the basins for ammonia removal, but we now use an ammonia sensor to adjust the required air flow. This has resulted in a savings of approximately \$17,000 on electrical costs.
- **Chemical Cost Reduction** - Caustic is fed into the aeration basins to adjust pH and add alkalinity which enhances microbial activity. The Operations staff lowered the minimum microbial alkalinity settings which reduced the required caustic feed rate. This resulted in a cost savings of over \$180,000 in 2024.

MCAWRRF Blower



Aeration Basins



Caustic Tanks



Planning & Infrastructure

Asset Management - CityWorks

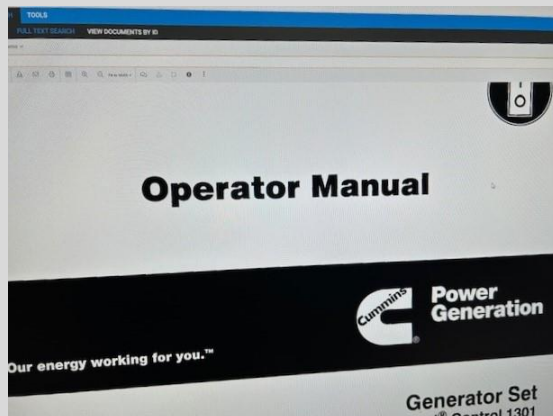
Assets 2024

Total Horizontal Assets: 4296
Total Vertical Assets: 4599
Total Vertical Assets Added in 2024: 990

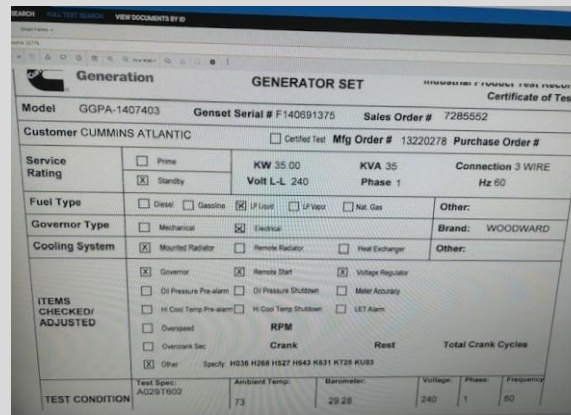
Work Orders 2024

Total Completed Work Orders: 4075
Preventative Maintenance: 3700
Corrective Maintenance: 375

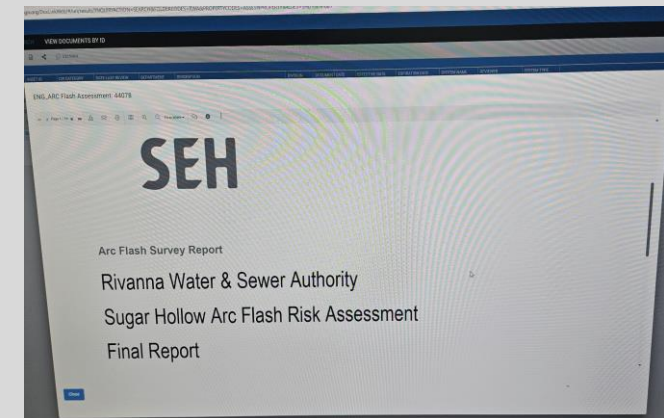
Documents available electronically via CityWorks



Manuals



Inspection Documents



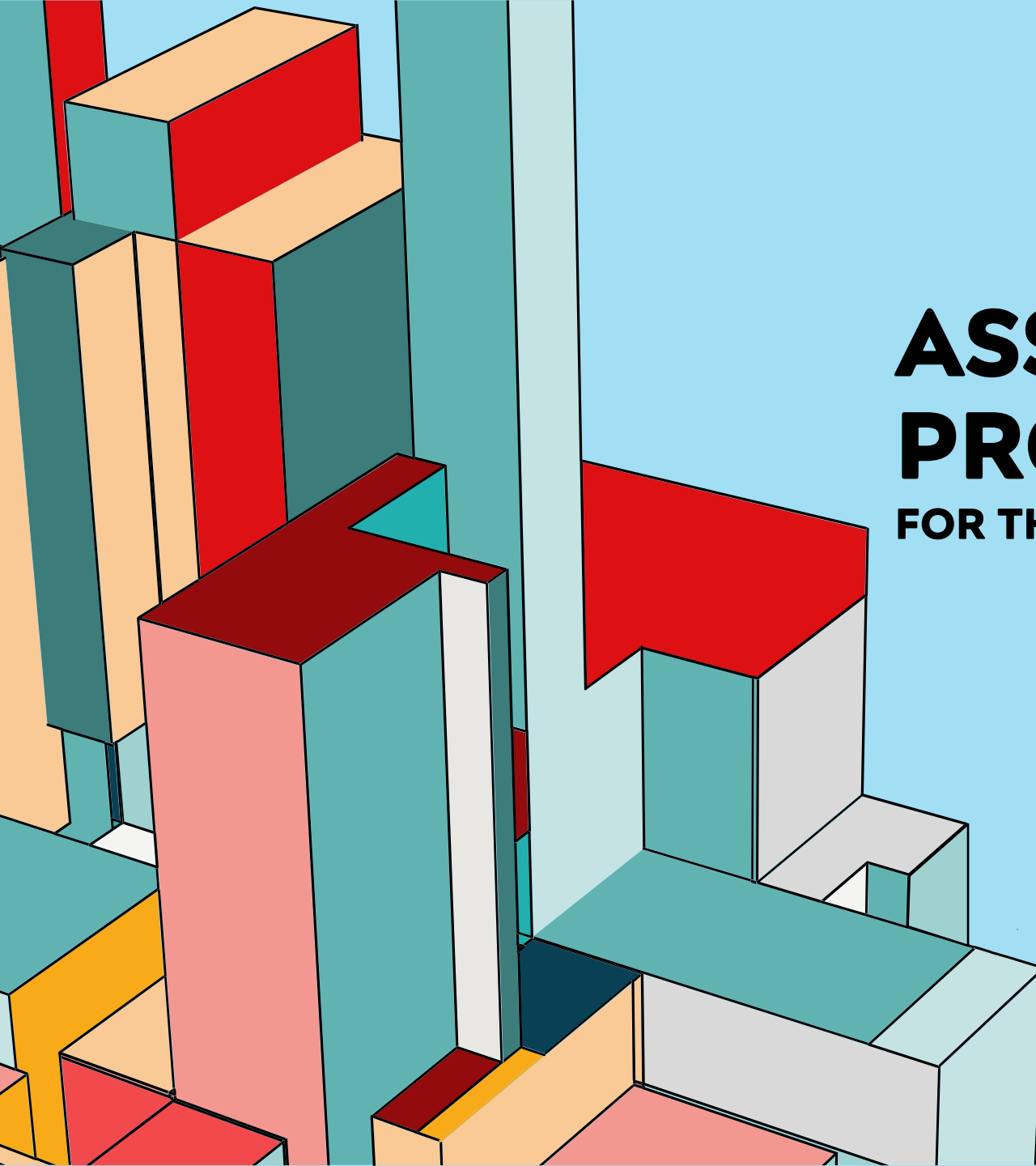
Safety Information



Providing high-quality water, wastewater, refuse and recycling services to the Charlottesville, Albemarle, and UVA community.

www.rivanna.org

Questions?

An abstract graphic on the left side of the slide consists of several 3D rectangular blocks of various colors (red, orange, teal, light blue, and white) arranged in a stepped, architectural fashion. The blocks are outlined in black and set against a solid light blue background.

ASSET MANAGEMENT PROGRAM UPDATE

FOR THE RSWA AND RWSA BOARDS OF DIRECTORS

Presented by:
Katie McIlwee
Asset Management Coordinator

January 28, 2025



STRATEGIC PLANNING

Infrastructure & Master Planning

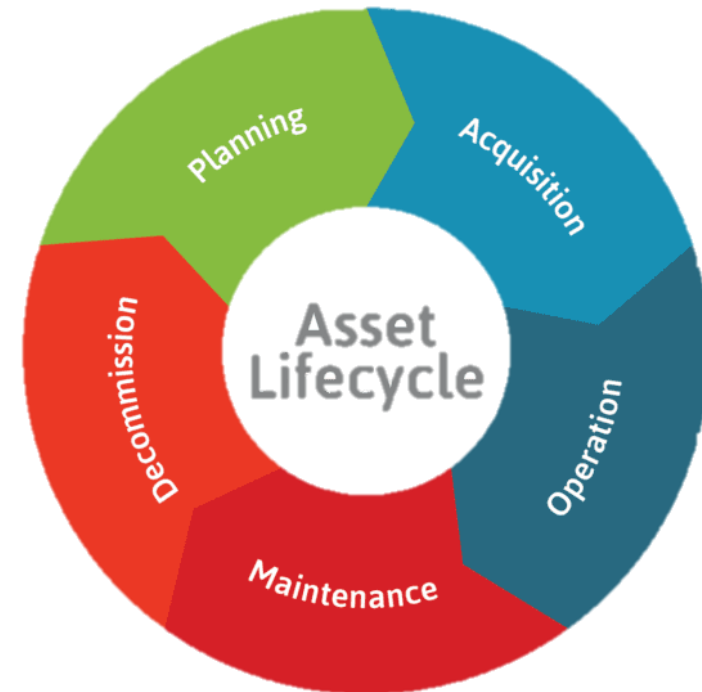
- **Goal:** To plan, deliver, and maintain dependable infrastructure in a financially responsible manner.
- **Strategy:** Implement an Authority-wide asset management program.

Asset Management Policy

- Our staff and management are committed to implementing an Asset Management Program that will provide established levels of service, while minimizing life cycle costs and managing risk.
- The Asset Management Program will link to the Authority's Strategic Framework and Goals for asset related investments and action plans.

WHAT IS ASSET MANAGEMENT?

- A *long-term* program to attain and sustain the chosen level of service for the life of the asset in the most *cost-effective* manner.
- Rivanna's Asset Management Program consists of:
 - Computerized Maintenance Management Software (CMMS)
 - Asset Register/GIS
 - Decision Support Software (DSS)





EFFECTIVE ASSET MANAGEMENT

The US Government Accounting Office (GAO) identified six key characteristics of an effective asset management framework.

GAO 6 Key Characteristics

1. Establishing formal policies & plans
2. Maximizing an asset portfolio's value
3. Maintaining leadership support
4. Using quality data
5. Promoting a collaborative organizational culture
6. Evaluating and improving asset management practices

RWSA Putting it into Practice

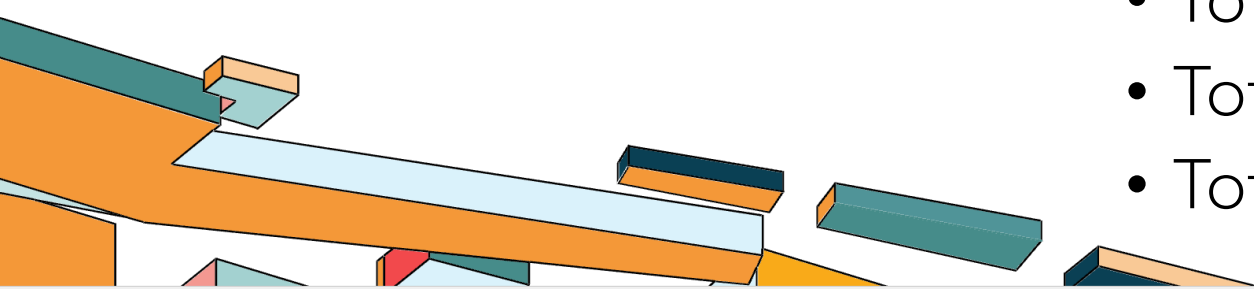
1. Strategic and Tactical Asset Management Plans
2. Decision Support Tools
3. Authority-wide buy-in
4. New Asset Workflow Procedure
5. Coordination with Maintenance, Water, & Wastewater, Lab and Engineering
6. Health Check Report and ongoing feedback from Maintenance & Operations

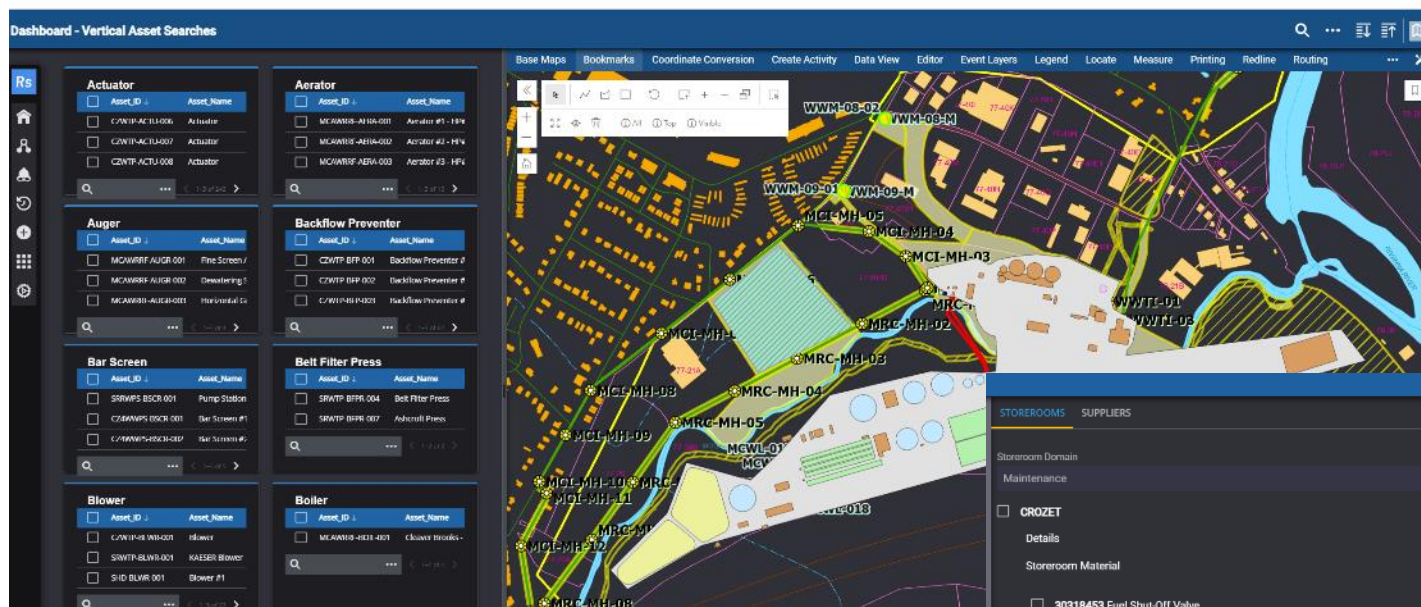


2024 BY THE NUMBERS

- Total Completed Work Orders: 4,075
- Preventative Maintenance: 3,700
- Corrective Maintenance: 375

- Total Horizontal Assets: 4,296
- Total Vertical Assets: 4,599
- Total Vertical Assets Added: 990





Asset Readings

Work Order Id: 75220

	Reading Date	Reading	Comments	Work Order Id
<input type="checkbox"/>	10/29/2024, 6:15 AM	67955		
<input type="checkbox"/>	05/03/2024, 6:15 AM	66674		
<input type="checkbox"/>	02/22/2024, 4:31 PM	66095	7,500 Mile Service	77746
<input type="checkbox"/>	02/11/2024, 6:15 AM	65937		
<input type="checkbox"/>	01/22/2024, 6:15 AM	65835		
<input type="checkbox"/>	01/16/2024, 6:15 AM	65733		
<input type="checkbox"/>	12/14/2023, 2:54 PM	64775	State Inspection	
<input type="checkbox"/>	12/02/2023, 6:15 AM	64667		
<input type="checkbox"/>	08/29/2023, 1:42 PM	64215	Battery Replacement	
<input type="checkbox"/>	08/08/2023, 6:15 AM	63921		

Assets

Asset Type	Asset Id
<input checked="" type="checkbox"/> FLEET	IRWSA-FLEET-007

Assets & Related Documents

By Type

Type	Uid	Sid	Feature Type
<input type="checkbox"/> ELECTRICAL	MCAWRRF-ELEC-091	219	MCAWRRF_BU
<input type="checkbox"/> MCAWRRF_BUILDING	MCAWRRF-BLDG-004	24	MCAWRRF_BU

2 RESULTS

MCAWRRF-ELEC-091 [DocLink](#)

MCAWRRF-BLDG-004 [DocLink](#)

SEARCH WORKFLOW TOOLS

ADVANCED SEARCH FULL TEXT SEARCH VIEW DOCUMENTS BY ID

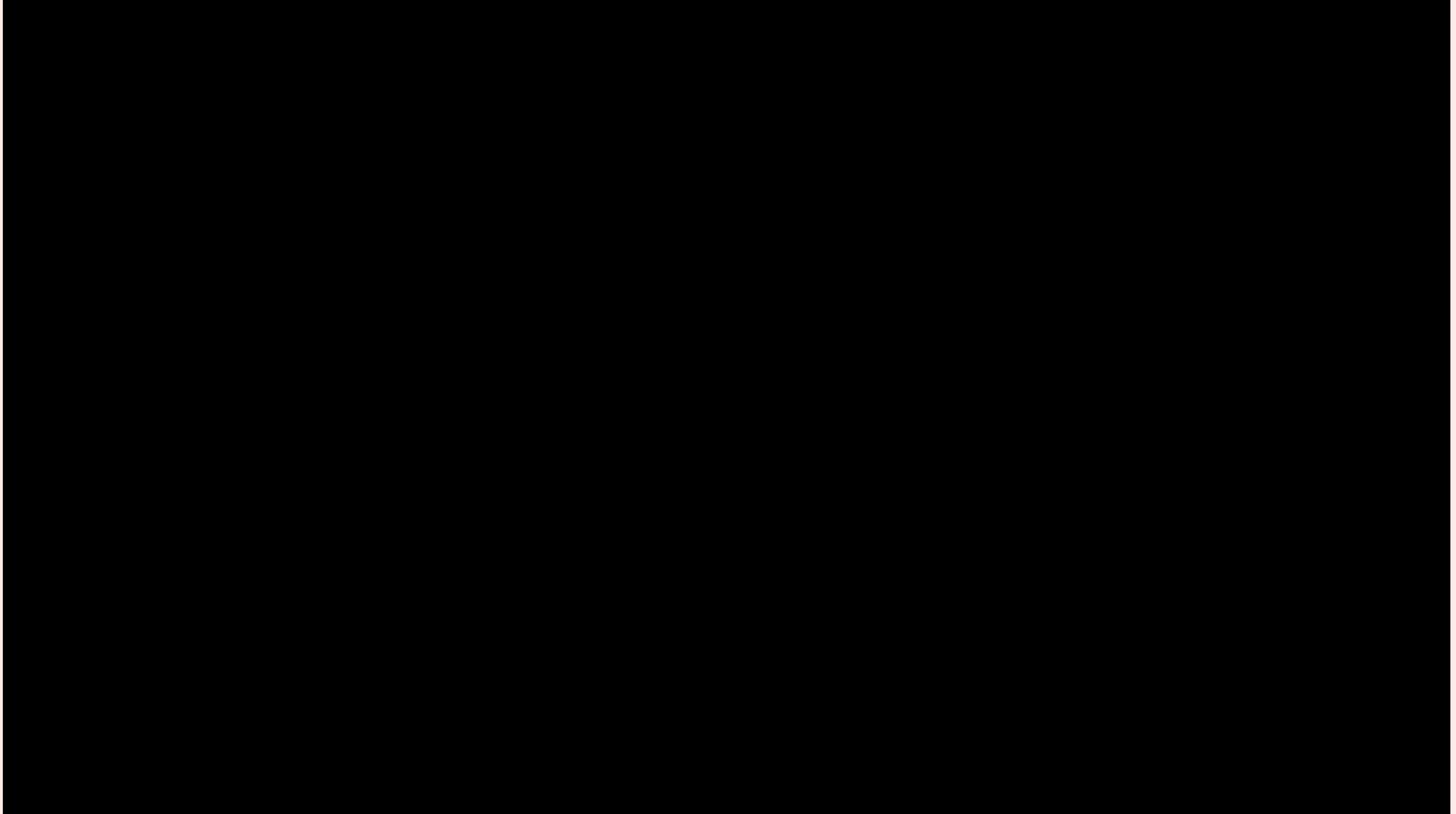
2 RESULTS

	DOCUMENT TYPE	PAGES	ASSET ID	DATE LAST REVIEW	DEPARTMENT	DESCRIPTION	DIVISION
<input type="checkbox"/>	ENG_ARC Flash Assessment	38	MCAWRRF-WRRF-001 *	03/01/2023	Maintenance	Final Report - Moores Creek Rivanna Pump Station Arc Flash Risk Assessment	
<input type="checkbox"/>	ENG_ARC Flash Assessment	19	MCAWRRF-WRRF-001 *	03/01/2023	Maintenance	Final Report - Moores Creek Effluent Building Arc Flash Risk Assessment	

DATA INTEGRATION

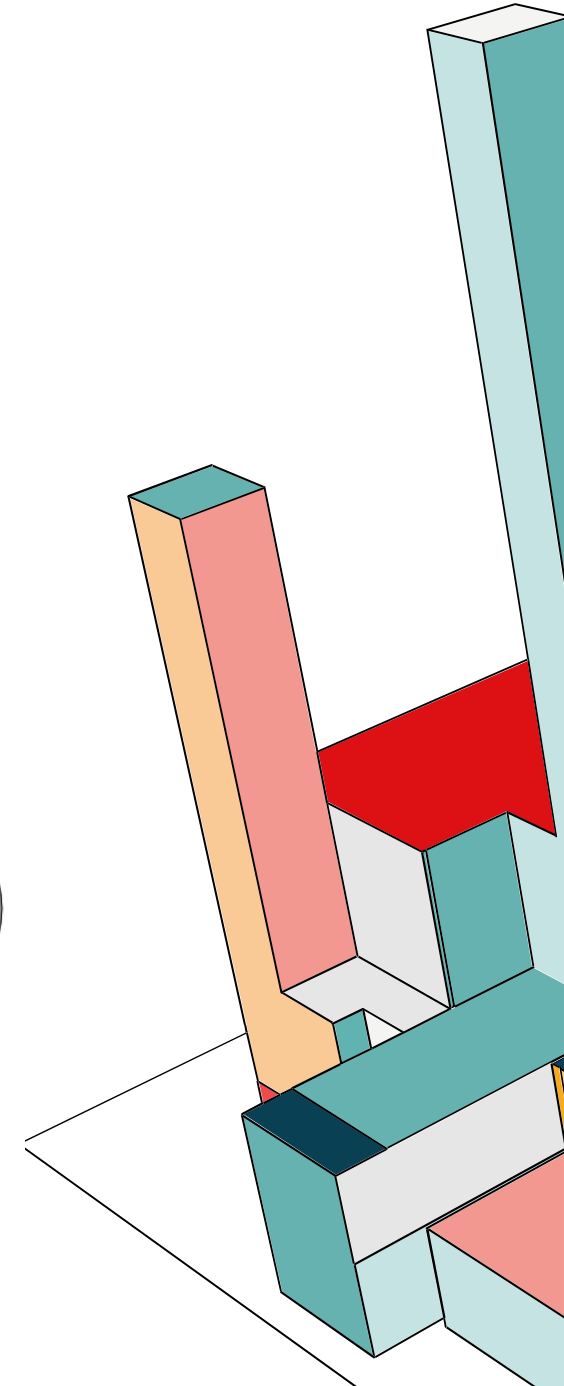
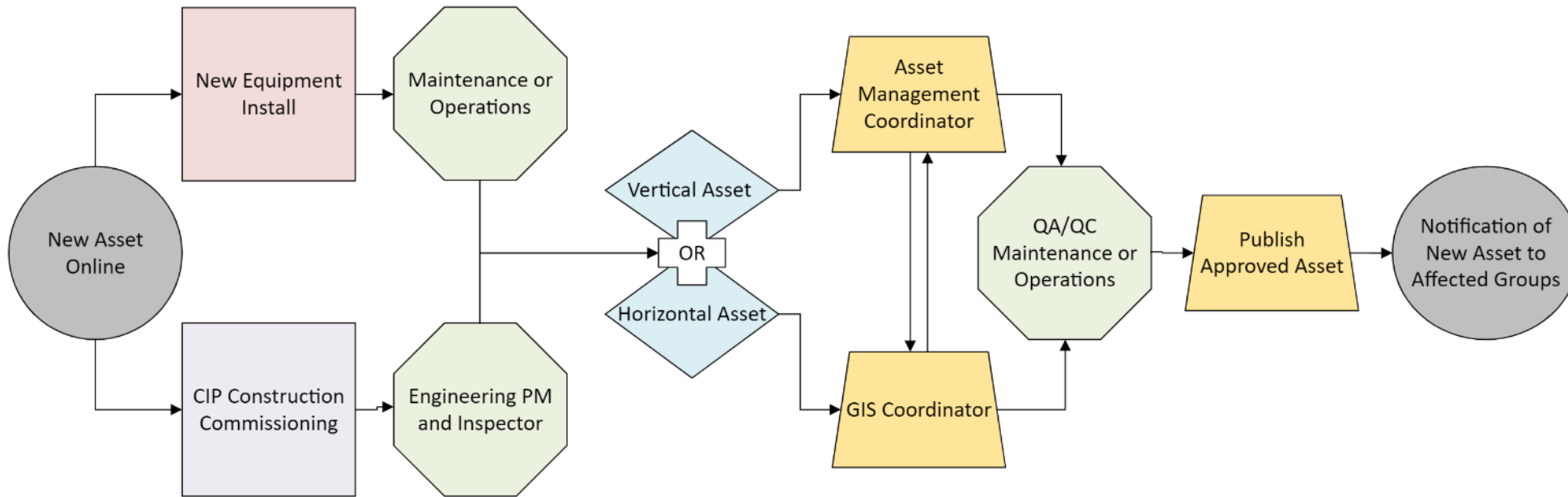
- EKOS: Fuel Management
- ESRI: GIS/Spatial Management
- DocLink: Records Management
- Storeroom: Inventory/Materials Management

WORK ORDER PROCESS *(VIDEO)*



NEW ASSET WORKFLOW

- Several ways new assets are entered into the asset register/GIS
 - Contractor provides information throughout the project
 - Internal asset information request workflow



INTERNAL ASSET INFORMATION REQUEST



Asset Information Request

Department:

Facility: Building: Room (if applicable):

Parent ID (if known): New, Replacement, or Current:

Asset Type: Asset Class: Asset Name:
(Vertical or Horizontal) (include asset ID if replacement)

PM Required (Y/N): Frequency: Date of First PM:

PM Type/Work to be Done:

Date Installed: Hour/Meter Reading:
(at time of form submission)

Manufacturer: Model: Serial Number:

Cost:

Physical Condition Score:

1 – Very Good: Excellent physical condition. Operable & well maintained. Asset likely to perform acceptably with routine maintenance for 10+ years. No work required.

2 – Good: Good physical condition and meets current standards. Asset shows minor wear. Deterioration has minimal impact on performance. Minimal short-term failure risk but potential for deterioration or reduced performance in the medium term (5-10 years). Only minor work required, if any.

3 – Moderate/Fair: Fair condition. Functionally sound plant and components but showing some wear with minor failures and some diminished efficiency. Minor components or isolated sections of the asset require replacement or repair, but asset still functions safely at acceptable level of service. Work required but still serviceable.

4 – Poor: Plant and components function but require a high level of maintenance to remain operational. Likely to cause a noticeable deterioration in performance in short-term. No immediate risk to health or safety but work required to ensure asset remains safe. Substantial work required in short-term, asset barely serviceable.

5 – Very Poor: Failed or failure imminent. Asset effective life exceeded, and significant maintenance costs incurred. A high risk of breakdowns with a serious impact on component. No life expectancy. Health and safety hazards exist which present a possible risk to public safety, or asset cannot be serviced/operated without risk to personnel. Major work or replacement.

ON-PLANT VALVE INVENTORY PROGRAM

- Long Standing Off-Site Valve Program
- On-Plant Program Began in March 2024
- Completed in December 2024
- Visited every facility with Water, Wastewater, and Maintenance to confirm all valves are in the Asset Register and GIS/Cityworks
- Added 428 valves to inventory
- Created Preventative Maintenance Work Orders (PMs) for valves
 - Based on manufacturer recommendations and
 - Best practices from Maintenance, Water, and Wastewater



CONDITION ASSESSMENT

Level 1: Desktop

- Completed by Maintenance, Water, Wastewater & Engineering
- On 100% of vertical assets
- Standard scale of 1-5 to define condition score

1 – Very Good: Excellent physical condition. Operable & well maintained. Asset likely to perform acceptably with routine maintenance for 10+ years. No work required.

2 – Good: Good physical condition and meets current standards. Asset shows minor wear. Deterioration has minimal impact on performance. Minimal short-term failure risk but potential for deterioration or reduced performance in the medium term (5-10 years). Only minor work required, if any.

3 – Moderate/Fair: Fair condition. Functionally sound plant and components but showing some wear with minor failures and some diminished efficiency. Minor components or isolated sections of the asset require replacement or repair, but asset still functions safely at acceptable level of service. Work required but still serviceable.

4 – Poor: Plant and components function but require a high level of maintenance to remain operational. Likely to cause a noticeable deterioration in performance in short-term. No immediate risk to health or safety but work required to ensure asset remains safe. Substantial work required in short-term, asset barely serviceable.

5 – Very Poor: Failed or failure imminent. Asset effective life exceeded, and significant maintenance costs incurred. A high risk of breakdowns with a serious impact on component. No life expectancy. Health and safety hazards exist which present a possible risk to public safety, or asset cannot be serviced/operated without risk to personnel. Major work or replacement.

Level 2: Field

- Completed by Maintenance
- Top 10% of vertical assets* (~715)
 - *Determined using assets with the highest Business Risk Exposure (BRE)
- Asset specific questions to define condition score

Building Roof

Include Roof Membranes	Access	Built-up	Concrete Deck	Curbs	Eaves
Finishes & Trims	Flashing	Glazed Openings	Guttering and Downsp	Metal Standing Seam	Metal Deck Roofs
Openings	Parapet	Penetrations	Shingle Roof	Single-Ply	Skylights
Slate roofs	Soffit	Tile Roof	Traffic Pads	Ventilation Shafts	Watershedding system components

	Aspect	Distress Mode	Rating 1	Rating 2	Rating 3	Rating 4	Rating 5
CONDITION ASSESSMENT							
A	Roof Structure	Deterioration	Appears in excellent or as new condition with no visible signs of deterioration.	Minor deterioration evident <10% of asset value required to restore asset to near new condition.	Moderate deterioration. < 30% of asset value required to restore asset to near new condition.	Significant deterioration. < 50% of asset value required to restore asset to near new condition.	Major deterioration of assets performance. Failure likely within near future .
PERFORMANCE ASSESSMENT							
B	Functionality	Suitability of the asset to perform its intended function	Asset able to perform its intended current function.	Some minor elements of the asset's function are not able to be provided.	Minor operational difficulties or costs being presented by the loss of function.	Significant operational difficulties or costs presented by the loss of function.	Asset provides very little of its intended function and requires enhancement to correct.
C	Reliability	Leakage	No leakage	Small amount of leakage	Moderate amount of leakage occurs	Large amount of leakage occurs	Extensive amount of water gets through roof

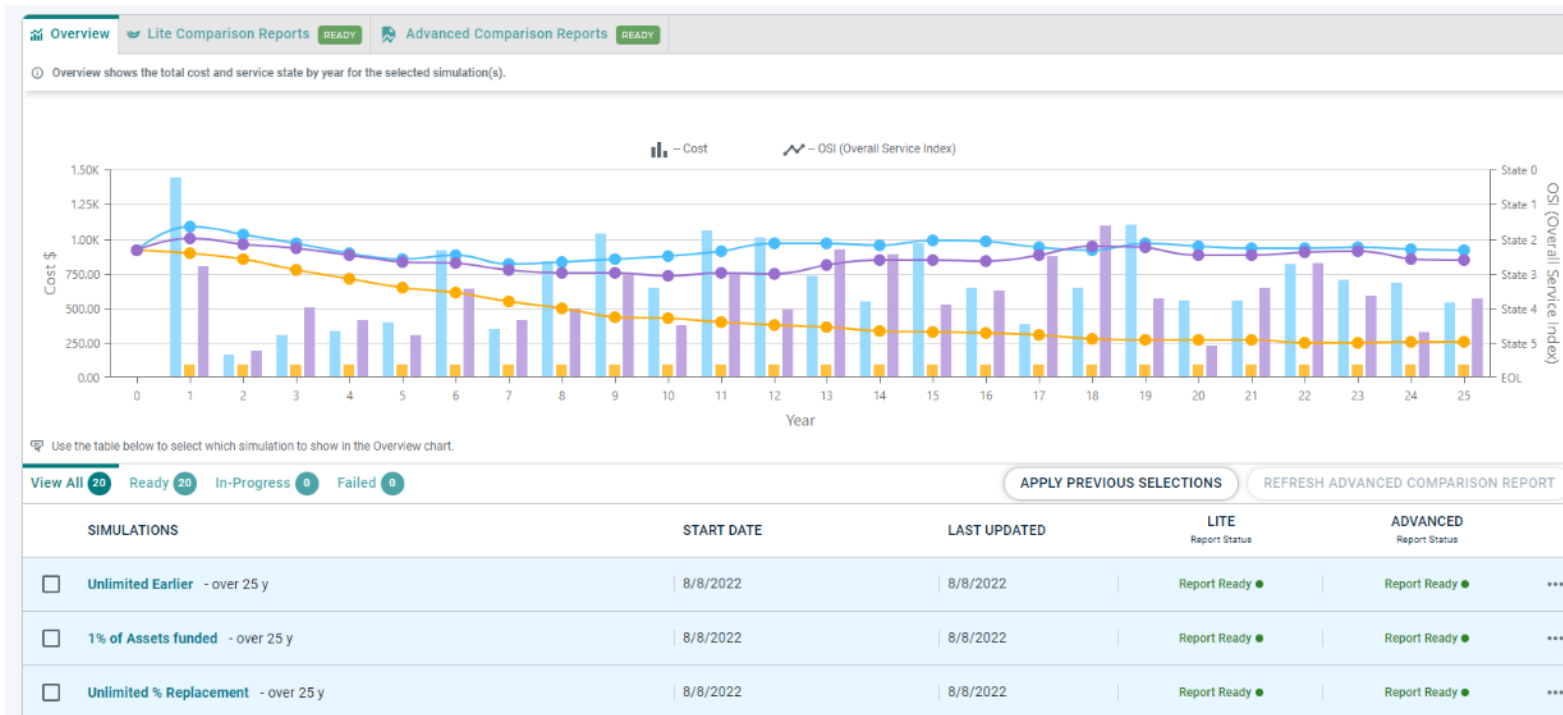
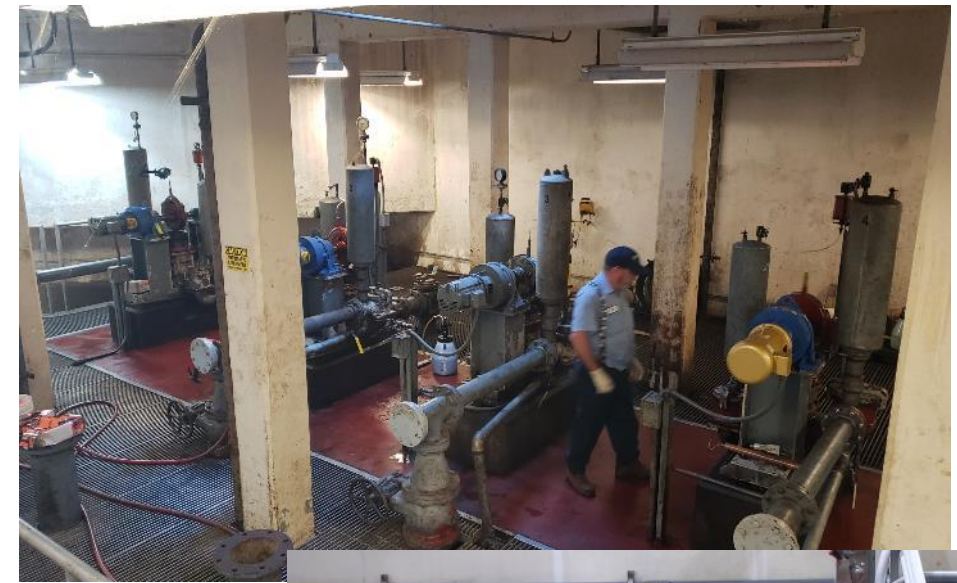
LIFECYCLE

- Lifecycle information will be used as one of the key performance indicator (KPI) to determine asset replacement
- Currently calculated based on Management Strategy Group (MSG), BRE, and Level 1 Desktop Assessment
- Once Level 2 Field Assessments are complete, will provide a holistic approach for replacement determinations to be made based on multiple factors

Asset ID	Asset Name	Install Year	% Life Consumed (Based on Condition)	% Life Consumed (Based on Install Date)
MCAWRRF-PUMP-008	Water Cannon Pump #1	2011	73%	38%
MCAWRRF-PUMP-013	Polymer Pump #4	2011	73%	52%
MCAWRRF-PUMP-016	Ferric Chloride Pump #2	2011	73%	52%
SVWRRF-PUMP-011	UV Recirculation Pump	2011	0%	38%
CZFWPS-PUMP-001	Finish Pump #1	2018	50%	60%
CZFWPS-PUMP-002	Finish Pump #2	2018	50%	60%
CZWTP-PUMP-010	Metering Pump #1	2018	50%	24%
OBWTP-PUMP-014	Intermediate Pump #3	2018	73%	60%
SRWTP-PUMP-021	Intermediate Pump #1	2018	50%	60%
SRWTP-PUMP-023	Intermediate Pump #3	2018	50%	60%

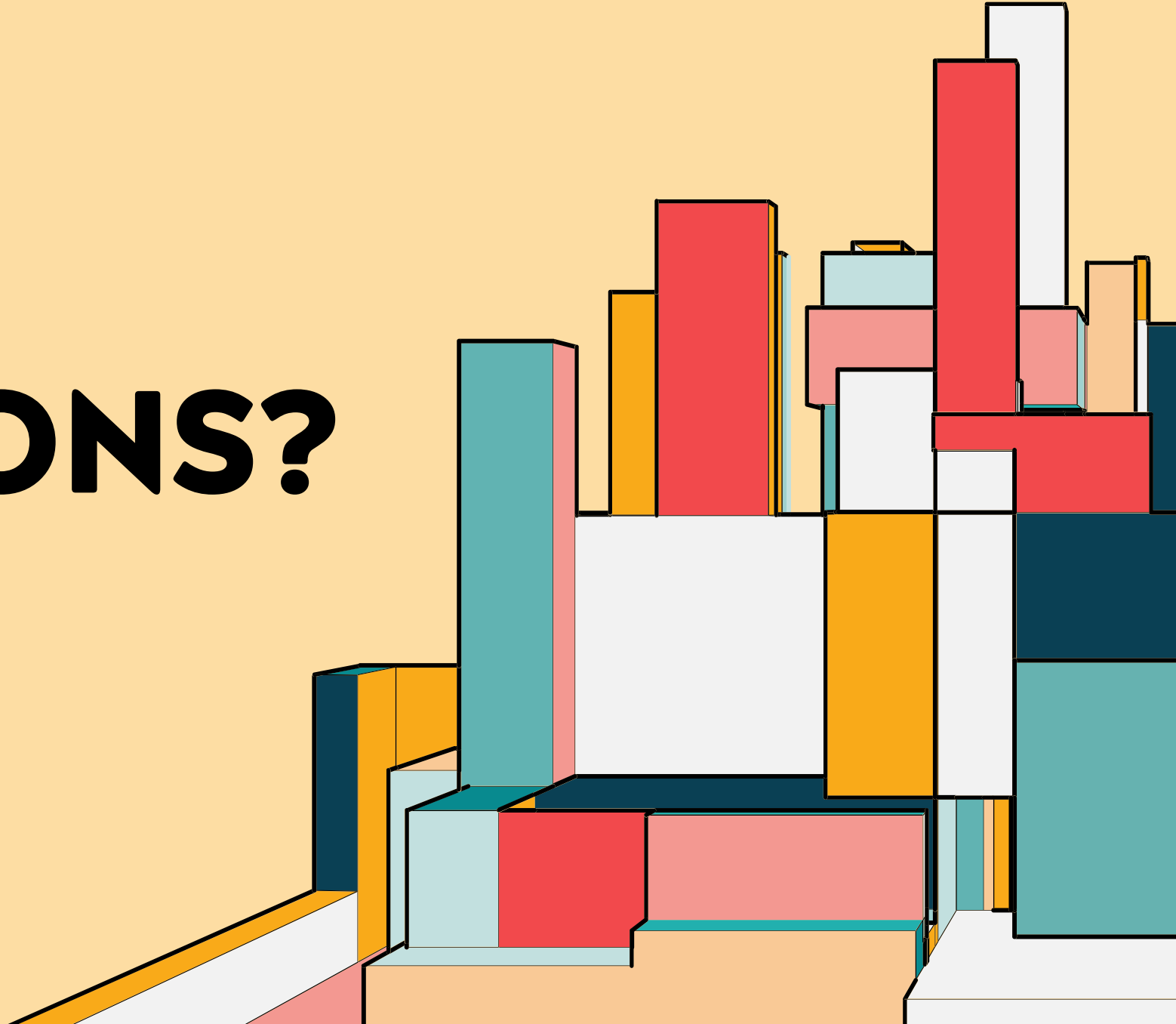
NEXT STEPS

- Level 2 Condition Assessments
- Implementation of DSS Tool
- Continued Refinement of Cityworks Usage & Tools
- RSWA Asset Management in Cityworks



QUESTIONS?

Thank you





Grant Funding Update

Presented to the Boards of Directors
By Annie West, Sustainability and Grants Coordinator
January 28th, 2025

Agenda

01

Capital Project
and Operational
Grants
Overview

02

Current Grant
Applications
Overview

03

Exploring
Routes for
Funding and
Next Steps

Capital Project Grants

Albemarle County

- Red Hill WTP Upgrade and Scottsville Lagoon Liners (2022)
- \$750,000

FEMA: Building Resilient Infrastructure and Communities (BRIC)

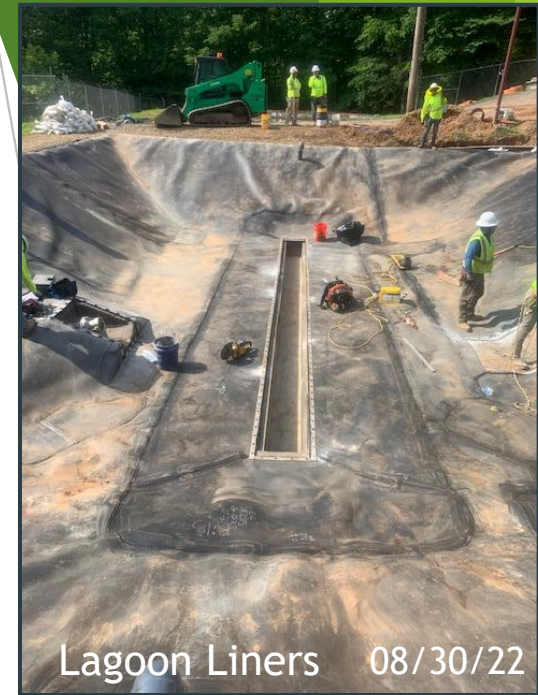
- Flood Protection Resiliency Design and Scoping project (2024)
- \$198,930

BIL/VDH Emerging Contaminants Funding

- Crozet WTP Granular Activated Carbon Treatment (2022-2025)
- \$6,240,000

NRCS: Dam Safety and Rehabilitation Program

- Beaver Creek Dam Env. Assessment and Preliminary Design (2023)
- \$1,020,250



Recent Capital Project Funding

BIL/VDH: Emerging Contaminants Funding

- Crozet WTP Granular Activated Carbon Expansion (2024)
- **\$1,000,000** for FY25
- Total project funding to \$7.2 M

FEMA Hazard Mitigation Grant Program

- Scottsville WW Facility Generator Replacement (2024)
- Disaster 4644: Winter Storm 2022
- **\$552,258**

Crozet GAC Vessels



Total grant funding for Capital Projects: **\$10,510,283**



Operational Grants

VDH Set Asides Grant Program 2020	\$14,400 for watershed signage at Totier Creek Reservoir, Beaver Creek Reservoir, and North Fork River Intake
Virginia Risk Sharing Association (VRSA)	Solid Waste: \$2,000 Cantilever Gate at Ivy Transfer Station Water & Sewer: \$4,640 Safety Vests, Chemical Suits, Gas Monitors
Litter Prevention and Recycling Grants (VDEQ)	Competitive: \$13,500 total for FY24 and FY25 Non-Competitive: \$52,697

Total grant funding for Operational Projects: \$87,237

VRSA Safety Project Photos



Ivy Transfer Station

Cantilever Gate
at Ivy Transfer
Station



New Safety
Equipment

Summary of Existing Grants (2018-2024)

- ▶ Grant Applications: 21
- ▶ Total \$ Requested: >\$130,000,000
- ▶ **Grants Received: 15**
- ▶ **Total \$ Awarded: \$10,597,475**
- ▶ Grants Pending: 2
- ▶ Grants not Awarded: 4

Pending Grants

Congressionally Directed Spending FY24

- South Rivanna WTP- PAC Replacement \$880,000

FEMA/ VDEM

- Request for Public Assistance for damage from Hurricane Helene (September 2024) \$560,000

Sugar Hollow Raw Water Pipe Break

📍 Mechum's River

RPA for
Hurricane
Helene



Stillhouse Waterline Bank Repair at Ivy Creek

RPA for
Hurricane
Helene



12/09/24

Exploring Routes of Funding



Consistent checking in Grants.gov



Network of State and Federal Grant Agency Staff



Third-party Grant Consultant



Federal Declared Disaster Monitoring

What's Next?



Grants for Solar Power installation, Electric Vehicles, and eV Charging Stations



NRCS Funding for Beaver Creek Dam Construction



Re-apply to Annual Grants: VRSA and Litter Prevention and Recycling



FY26 VDH Emerging Contaminants Application



FY24 FEMA's FMA and BRIC Applications



Questions