



CITY OF HENDERSONVILLE
ENVIRONMENTAL SUSTAINABILITY BOARD
City Operations Center-Assembly Room | 305 Williams St. Hendersonville, NC
28792



Thursday, August 15, 2024 – 3:30 PM

AGENDA

1. **CALL TO ORDER**

2. **PUBLIC COMMENT**

3. **APPROVAL OF AGENDA**

A.

4. **APPROVAL OF MINUTES**

5. **NEW BUSINESS**

A. Name Sullivan Park Birding Trail in Honor of Crystal Cauley - *John Connet, City Manager (5 min)*

B. Water and Sewer Department Updates - *Adam Steurer, P.E., Utilities Director (30 min)*

C. City Council Update - *Lyndsey Simpson, Mayor Pro Tem (5 min)*

D. Main St Bike Lanes - *June Shelp, Board Member (5 min)*

E. Hydretain test bed - *Omar Zafra, Board Chair (5 min)*

F. Green Business Partnership - *Jane Edgar and Omar Zafra, Board Members (10 min)*

<https://www.scgov.net/government/sustainability/green-business-partnership>

G. Committee Structure - *Virginia Tegel, Board Chair (10 min)*

6. **SUBCOMMITTEE UPDATES**

A. Waste Management- *Virginia Tegel, Board Chair (5 min)*

7. **OLD BUSINESS**

A. Hendo Earth Fest 2050 - *June Shelp (5 min)*

B. Wildlife Habitat Certification vs. Bee City - *Jill Carter, Board Member (5 min)*

C. Tree Board Update- *Lyndsey Simpson, Councilwoman (5 min)*

8. OTHER BUSINESS

9. ADJOURNMENT

The City of Hendersonville is committed to providing accessible facilities, programs and services for all people in compliance with the Americans with Disabilities Act (ADA). Should you need assistance or an accommodation for this meeting please contact the City Clerk no later than 24 hours prior to the meeting at 697-3005.



CITY OF HENDERSONVILLE
ENVIRONMENTAL SUSTAINABILITY BOARD
 City Hall - Council Chambers | 160 Sixth Avenue E. | Hendersonville, NC
 28792



Thursday, July 18, 2024 – 3:30 PM

MINUTES

1. CALL TO ORDER

A. Call To Order

Virginia Tegel, Interim Chair

Present-

Omar Zafra, Grady Nance, Virginia Tegel, Jane Edgar, June Shelp, Gina Baxter

Francis Stewart (online via Zoom)

Lyndsey Simpson (Councilwoman)

Gracie Erwin (temp staff liaison)

Grady was time keeper for the meeting to keep to help ensure timely discussions and all topics were covered at the meeting.

From the public- Glen Lang, tree board member, Ken Fitch (online).

2. EnterTextHere

PUBLIC COMMENT

Ken Fitch commented on concern regarding wildlife certs, and maintenance, however pleased to see the topic and the areas of focus the board has.

APPROVAL OF AGENDA

Moved Item F. to be Item B. Moved City Council Updates to #6 as Lindsey was on a time crunch due to Rhythm and Brews.

Virginia Motions, Grady makes first motion, Gina seconds.

APPROVAL OF MINUTES

Virginia Makes motion to approve minutes. Grady makes first motion, and Jane second motion.

1. June 20, 2024

SUBCOMMITTEE UPDATES

2. Waste Management (10 mins)

Sustainability Demonstration Station Update- Virginia Tegel, Interim Chair

Ribbon Cutting is Saturday July 20th 2024 at 10 am.

Volunteers are still needed to assist with set up. Gina Volunteered to help. Bill Twiggs is helping to install the remainder of the rain catcher.

NEW BUSINESS

3. Member Introductions (10 mins)

Please state name, city resident or ETJ, and sustainability interests/background

4. Voting (5 mins)

Vote on new Chair and Vice Chair- Virginia Tegel, Interim Chair

One nomination was made for Virginia to be the board Chair. All voted unanimously for Virginia.

Frank was nominated for Vice Chair, Jill seconded this motion and all voted unanimously.

5. Meeting Time Adjustment

Consider Adjusting ESB meeting to 3pm on Fridays - *Tanya Guzman, board member*

Discussed pros and cons of moving the meeting time. I emailed Caitlyn to also get her thoughts. The board will make a decision at the next meeting.

6. Sustainability Strategic Plan (10 mins)

Discuss individual focus areas-*Virginia Tegel, Interim Chair*

<https://www.hendersonvillenc.gov/sustainability>

<https://www.hendersonvillenc.gov/sustainability-strategic-plan>

Frank likes that the plan will help hold the board and city in general accountable for the work they are trying to accomplish.

Grady stated that many things will impact the plan as it rolls out and is put into action.

Omar observed that the board is weak in the areas of Waste Management, and Water due to the boards strengths in the the other areas. These areas needs to not fall to the wayside due to this.

7. Hendo Earth Fest 2025 (10 mins)

Chair appointment, planning discussion - *Frank Stewart, Member*

Frank volunteered to be committee chair for Earthfest 2025. June volunteered to be CoChair.

8. Sullivan Park Birding Trail (3 mins)

Name Sullivan Park Birding Trail in Honor of Crystal Cauley - *Gina Baxter, Member*

City council was asked about honoring Crystal Cauley in this manner and they were very receptive. ESB plans to ask her immediate family for their blessing first. Sign to be constructed once ESB receives family approval.

OLD BUSINESS

9. ESB Approved Budget, *Kasey Lyons, Sub Staff Liaison*

Suggestion to change the budget line to waste management.

10. Wildlife Habitat Certification vs. Bee City, *Jill Carter, Member*

This is a community wide initiative and will be a multi year project to achieve all the required points.

Board discussed record keeping issues, and reaching out to other cities that have already started or completed this process such as Charlotte, Durham, and others. Update next month to see how it fits into sustainability plan.

11. Native Plant Policy Letter, *Jill Carter, Member*

Not ready yet, but coming very soon. It will be guidance for the city to implement.

12. Monarch Migration Initiatives, *Jill Carter, Member (3 min)*

Aug. 17th monarch decorating at farmers market.

13. Plastic Reduction at Apple Festival, *Gina Baxter, Member (3 mins)*

On agenda for October. Gracie to work with Gina regarding plastic bottled water.

14. Communication with Tree Board, *Virginia Tegel, Interim Chair*

discussion of a joint meeting. Add tree board updates as a regular agenda item.

OTHER BUSINESS

15. City Council Update, *Lyndsey Simpson, Mayor Pro Tem (5 minutes)*

Comp plan approval is coming soon. Would like to have that before sharing with CC. Presented/voted on at the August meeting. Goal is to act on plans, and not let fall to the wayside.

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Proposal
Brooklyn Creek Bird Sanctuary

The City of Hendersonville Environmental Sustainability Board and Historic Preservation Commission in partnership with Wild Birds Unlimited, Arts Council of Henderson County, and others would like to propose the dedication of the Brooklyn Creek Bird Sanctuary in memory of Crystal Cauley.

Crystal was an advocate and supporter of maintaining the history of the Brooklyn Community, creating public art, enhancing Sullivan Park, and educating the youth of our community. Therefore, we believe the installation of eight bluebird houses along Brooklyn Creek in Sullivan Park is a fitting tribute to Crystal.

Wild Birds Unlimited will provide the bird houses through a cost sharing arrangement with the City of Hendersonville. They will provide the house, flange, pole, baffle and stabilizer for eight installations. We would propose that the City and Wild Birds Unlimited share the cost of this project.

The Arts Council of Henderson County would organize and facilitate the painting of the bluebird houses. They may seek the involvement of the youth at the Boys and Girls Club of Henderson County or local artists. The bluebird houses would be painted with environmentally/bird friendly materials.

The bird sanctuary will be located along Brooklyn Creek in Sullivan Park. Brooklyn Creek has recently been restored as part of a streambank restoration project led by the City of Hendersonville's Stormwater Department.

Timeline – Dedication to occur in the Spring of 2025

Signage – Describing the Brooklyn Creek Bird Sanctuary in memory of Crystal Cauley

Budget - \$1,000.00

Utility Updates and Initiatives



1888 – First time public water supply available in Hendersonville. Small reservoir in Laurel Park.
1920s – Sewer collection system constructed. Discharges directly to Mud Creek.

Item B.











July 1923





Water Treatment Facility - 1963



Item B.

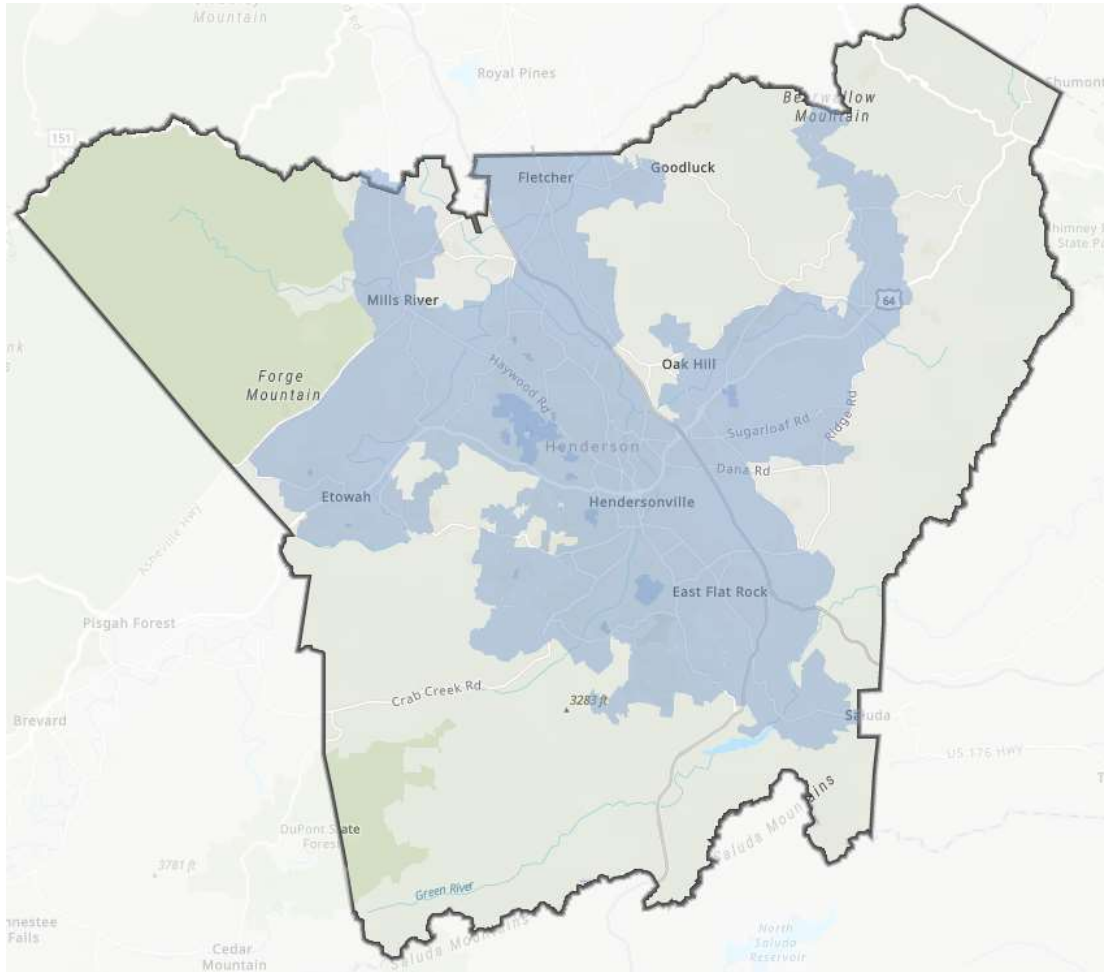
Wastewater Treatment Facility - 1963

Utility Overview Today

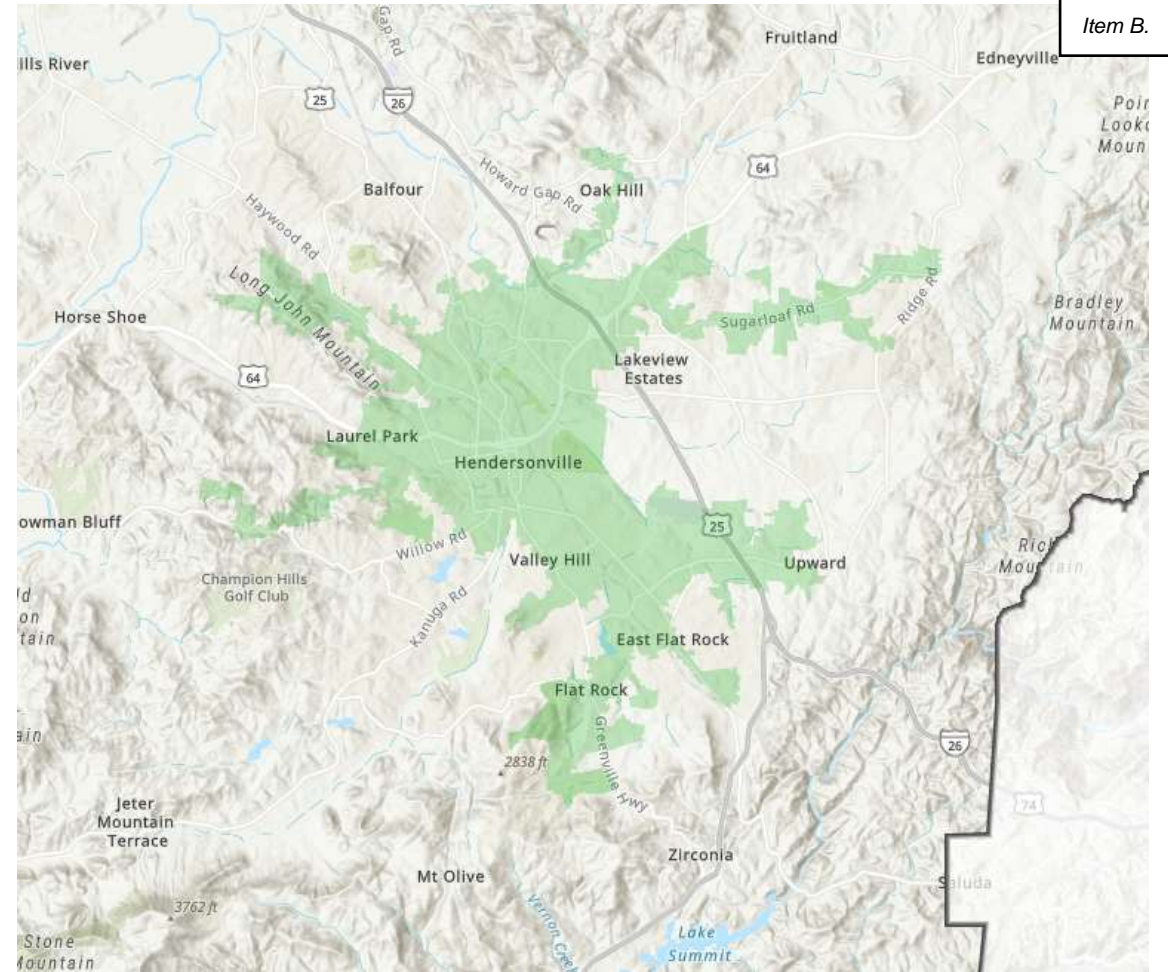
Item B.

- Water: ~80,000 people served
- Sewer: ~20,000 people served
- Enterprise Fund
- \$24.3M annual operating budget
- 98 dedicated employees





Water Service Area



Sewer Service Area

Water Supply

Item B.



Drinking Water Treatment

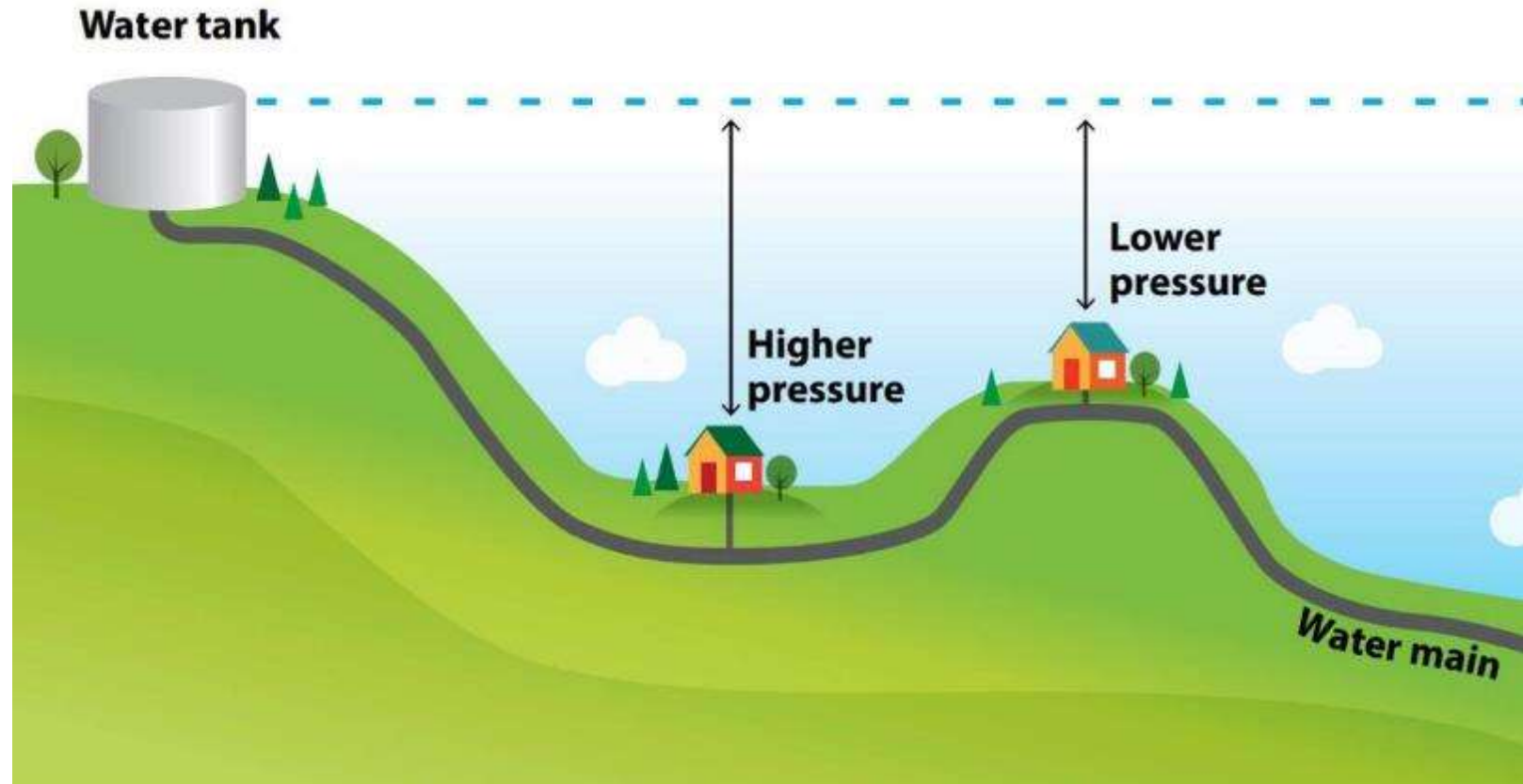
Item B.



Drinking Water Distribution

Item B.

- ~700 miles of pipe
- 54 Pump Stations
- 24 Storage Tanks



Sewer Collection

Item B.

- ~180 miles of sewer pipes
- 31 Pump Stations



Sewer Collection - Issues

Item B.



#WipesClogPipes

Clogs from wipes, rags,
towels, 'flushable wipes', &
other items trap grease and
cause sanitary sewer overflows

ONLY FLUSH THE 3 P'S



www.hendersonvillenc.gov



Pee



Poo



Paper

Sewer Treatment

Item B.

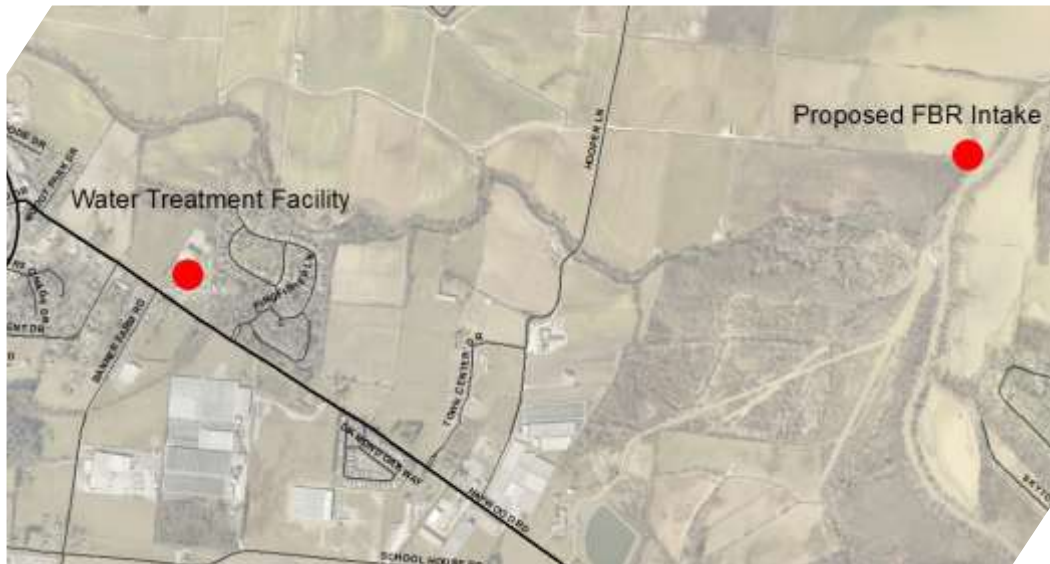


Projects

French Broad River Intake and Pumping Station

Item B.

- Drought-resilient water source
- 15 mgd capacity and expandable to 21 mgd
- Under Construction – Completion Summer 2024
- \$23.5M



French Broad River Intake and Pumping Station

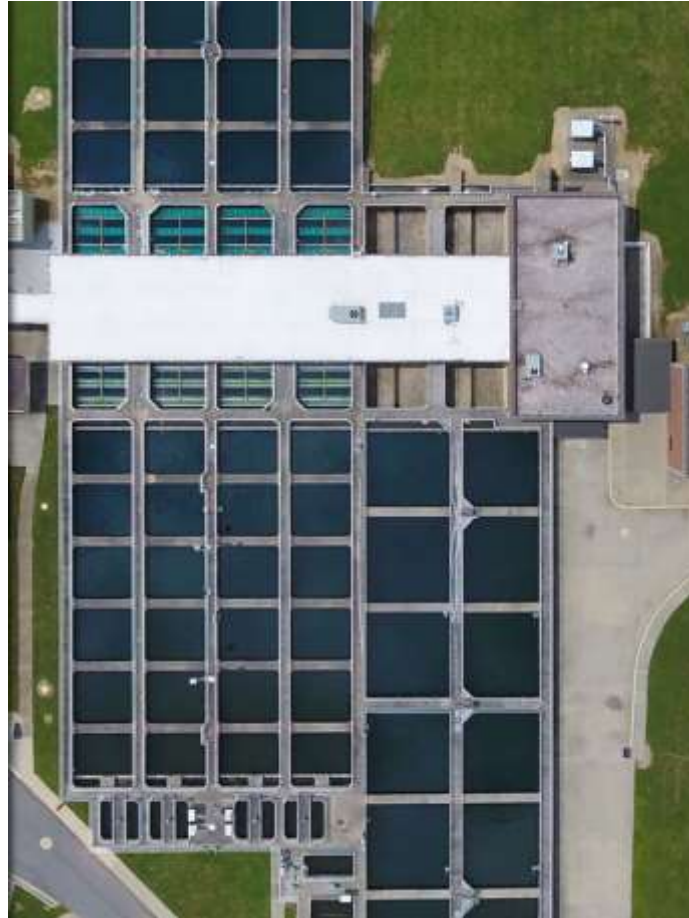
Item B.



Water Treatment Facility Expansion – 15 mgd

Item B.

- Installation of additional filter
- Additional 3 mgd capacity
12 mgd to 15 mgd
- Status: Design/Permitting
- Construction 2024
- Estimated Cost: \$2.1M



Water Pumping Efficiency Projects

Item B.

- WTP High Service Pump Upgrade
 - Completed in 2019
 - ~12% reduction in energy use at WTP
- Pumping Schedule Improvements
 - Fill water tanks during off-peak energy use times



Aerial Infrared Survey

Item B.

- Partnership with MountainTrue 2021
- Split cost of survey
- Survey of Hendersonville Sewer Service Area
- Look for water and sewer leaks
- “Ground-truth” results



Multi-area Streambank Restoration

Item B.

- Protect utility infrastructure threatened by stream erosion
- Multiple locations
- Status: Complete
- Construction 2024
- Cost: ~\$2.9M



WWTP Ultraviolet Disinfection Improvements

Item B.

- Replacement of aging equipment
- Additional capacity
- Redundancy
- Energy Savings
- Status: Construction
- Cost: ~\$3.9M Grant



WWTP Biosolids Thermal Dryer

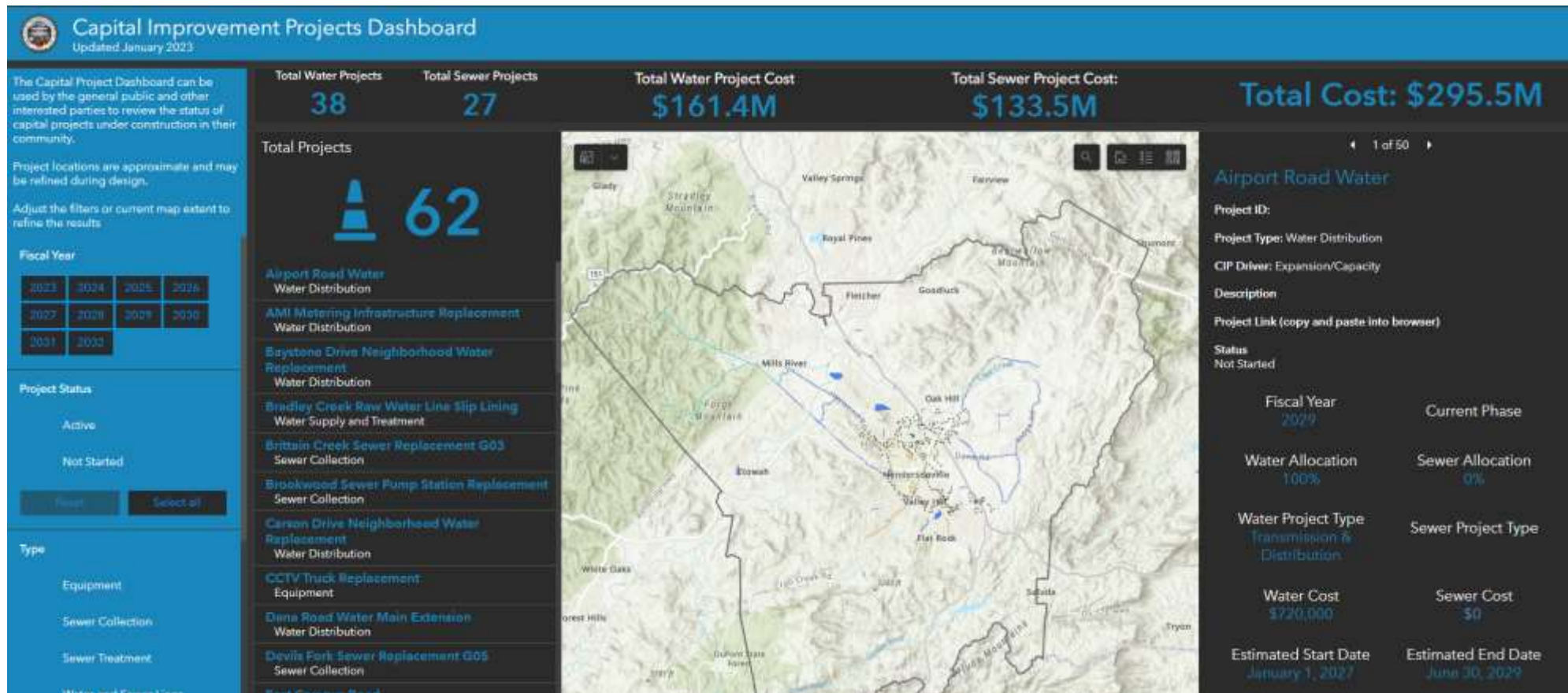
Item B.

- Produce high-quality biosolid
- Reduction in solids management costs
- Solar Photovoltaic System
- Status: Design/Permitting
- Construction: beginning late 2024
- Estimated Cost: ~\$17M
- Received Grant: \$14.75M



Other Projects

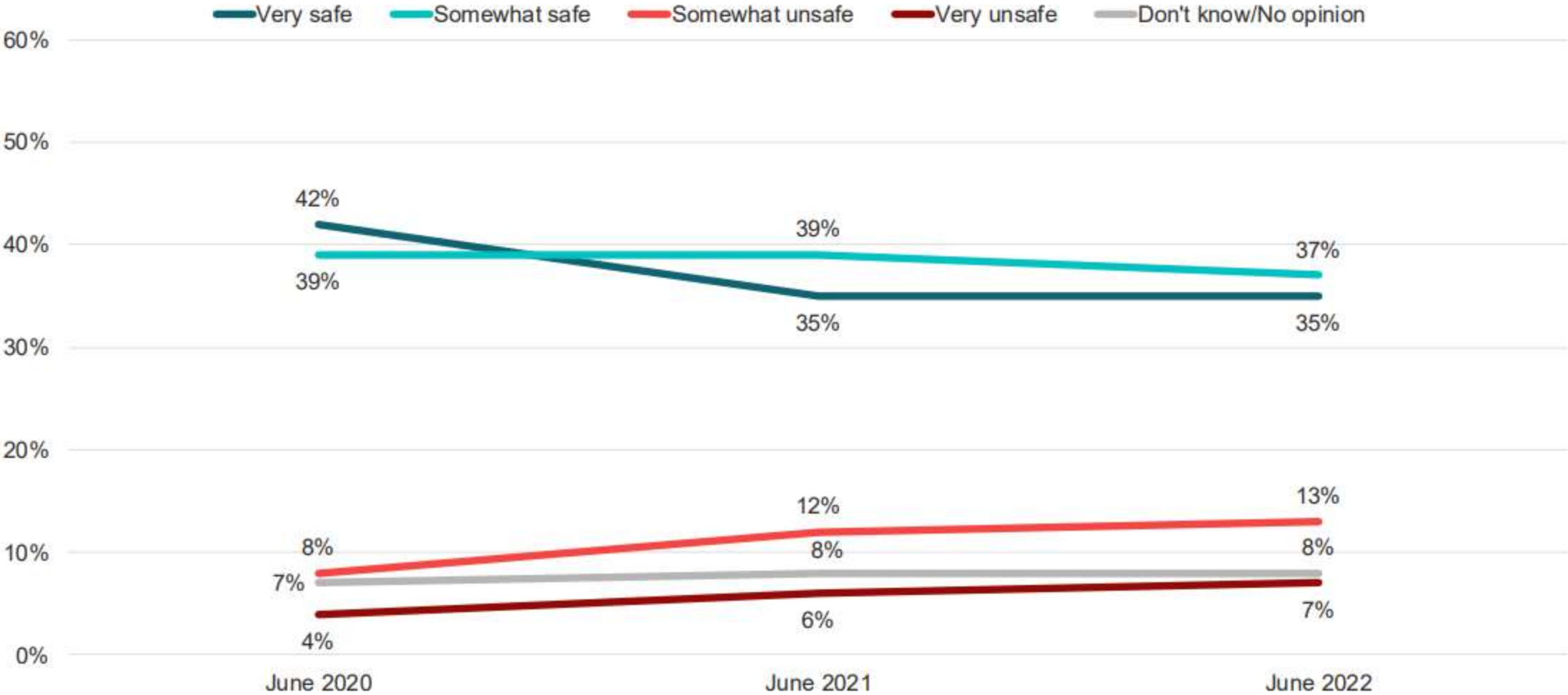
Item B.



More information:
[Water & Sewer CIP Dashboard](#)

Utility Initiatives

National Survey Says: Water from the faucet is...



The Alternative..

Item B.



- Primo: \$1.40/gallon (Filling station, Ingles)
- Aquafina: \$1.89/gallon (32-pack, Wal-Mart)
- FIJI: \$10.52/gallon (24-pack, Wal-Mart)

Hendersonville Tap Water: < \$0.01/gallon



Item B.

Why “Brand” Our Water?

- Build Trust and Consumer Confidence
- Customers understand the Value of Water
- Affordability (alternatives are \$\$\$)
- Reduce Waste (plastic bottles)



Education and Outreach

Item B.

- Grease Awareness
- Fix a Leak Week
- Imagine a Day Without Water
- Treatment Facility Tours



Questions?

Adam Steurer, PE
City of Hendersonville
Utilities Director
asteurer@hvlnc.gov

SDS schedule at Farmers Market - schedule and WNC Repair Cafe

DATE/Shift	ESB member	volunteer
8/17	WNC repair cafe Ann Swift	Monarch Migration Activity
7:30 - 10:30	Gina Baxter	Ann Twiggs
10 - 1 pm	Jill Carter	Emily Davidson