TOWN COUNCIL

STAFF REPORT

Projects and Watershed Resilience Department



MEETING DATE:	April 11, 2023
SUBJECT:	Projects and Watershed Resilience Department Monthly Report
PROJECT MANAGER:	Kimberly Washok-Jones, Director of Projects and Watershed Resilience

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

Goethe-Shults Sidewalks Phase 2

• Sidewalks are completed and SCDOT has closed out the project.

Next Steps

Complete additional services to study the outfall along Shults Road.

2. Buck Island-Simmonsville Neighborhood Sidewalks and Lighting

- Phase 6A along Simmonsville Road from Grayco northward to Sugaree Drive is complete.
- A contract for Phase 6B along Simmonsville Road from Sugaree Drive northward to the existing New Mustang Road was awarded to JS Construction Services, Inc.

Next Steps

- Prepare and obtain streetlight easements and begin condemnation process for remaining Phase 5 street lighting easements.
- Complete Phase 6B construction and SCDOT closeout.
- Construction of the remaining Simmonsville Road sidewalks and lighting is to be completed in FY 2023.

3. New River Linear Trail

- Conceptual Master Plan is complete.
- Executed PO with Barrier Island Engineering for Phase 1 Engineering Design.
- Submitted PRT application for a restroom facility, water source and lighting at the New River Trail Park. Submitted request to Bill Herbkersman to solicit support from the Beaufort County Delegation.
- Received easement donation from New Riverside Community Association, Inc.
- Submitted plans to Santee Cooper for cursory review and cost share for bridge replacements.
- Received \$26,000 PARD grant award.

Next Steps

- Continue engineering design for Phase 1 pathway (New River to Hwy 46).
- Easement Donation from New Riverside Community Association, Inc. approved at 3/14/23 Town Council.
- PRT Grant to be awarded in May 2023.

SEWER & STORMWATER

1. Buck Island-Simmonsville Sewer (Phases 5A-D)

- Construction was halted on Phases 5A-D by BJWSA due to the contractor underperforming their job duties.
- Received permits to construct from DHEC.
- Posted a solicitation to construct and only received one response. The solicitation was reposted per Dept. of Commerce due to grant funding.

Next Steps

- o Re-bid period ends 4/17/2023.
- Start construction late summer 2023.

2. Historic District Sewer Extension Phases 2 & 3 - Bridge & Colcock Streets

- Received SCDHEC permit to construct for original scope.
- No contractors responded to the first construction solicitation.
- Received Quit Claim Deeds from all the property owners along the ghost road.
- Obtained road ownership from SCDOT.
- Contract was awarded to Jordan Construction of Hilton Head, Inc. 3/14/2023.

Next Steps

 Start house connections once construction is complete and Permit to Operate is issued by DHEC.

3. Historic District Sewer Extension Phases 4 through 6 – Lawrence, Green and Water Streets

Received initial design for Phases 4, 5, & 6 from the engineer.

Next Step

- Incorporate any Phases 4, 5, & 6 design changes to drawings and submit to BJWSA for review and permitting.
- Obtain Quit Claim Deeds from all the property owners along the ghost roads or initiate condemnation process in April 2023.

4. May River Watershed Action Plan Impervious Restoration Water Quality Projects

- Initial site investigations are complete for 9 of the 11 participating project partners.
- Palmetto Pointe Towns and Lowcountry Community Church declined to participate in the Program at this time.
- Policy document for Impervious Restoration Program under formulation.
- Geotechnical investigations at 6 school sites complete and field results under analysis for use in development of Preliminary Design. Geotechnical investigations for the 3 remaining sites are being coordinated.

Next Steps

- Proceed with geotechnical evaluations at the 3 remaining site locations. Begin preliminary site design.
- o Preliminary Design development utilizing geotechnical investigation information.
- o Policy Document DRAFT is being updated based on comments provided.

5. Buck Island Drainage Improvements

- A contract was executed on 11/18/22.
- Construction is substantially complete.
- 10" water main relocation/lowering performed on 2/15/23.

Next Steps

 SCDOT final inspection approval, As-Built submittal review/approval, completion of punch list items, project close-out by 4/30/23.

HISTORIC DISTRICT IMPROVEMENTS

1. Boundary Street Lighting

- Phase 2 photometric plans, encroachment permits, and lighting agreements are complete and approved.
- SCDOT and Dominion indicated poles must be installed on private property due to conflicts with sewer force main and communication utilities within the right of way. Easements must now be obtained to install Phase 2 lighting.

• Next Steps

- Install streetlights on the west side of the street in FY 2023. Coordinate conduit and light installation for the east side of the street in conjunction with larger streetscape project.
- Obtain easements as needed for Phase 2 street lighting.

2. Squire Pope Carriage House Preservation

- The contract with Huss Inc. was executed and construction began on 1/16/23 with a groundbreaking ceremony held on 2/4/23.
- Selective demolition and dismantling continue, removal of windows, structural framing and stabilization.

Next Steps

• Concrete foundation is complete and brick piers are under construction.

3. Bridge Street Streetscape

- Issued Notice to Proceed for Phase I construction to start 12/5/22.
- Obtained survey proposal for Phase II streetscape project.
- Engaged Barrier Island for Phase II design.
- Obtained easement from Cunningham LLC for sidewalk connections.
- Submitted plan revision to SCDOT for sidewalk from Boundary to Pritchard.

Next Steps

- o Continue construction of Phase I and complete in Summer 2023.
- Drainage 100%, parking 50%, Sidewalks 95%, IT conduit and pull boxes 50%, lighting 5%.
- Obtain easement from Cunningham LLC for sidewalk connections.
- o Continue coordination of irrigation tie-in with property owners.
- Meet with Bluffton Electric for plan to installation additional power from Calhoun to Boundary.

4. Boundary Street Streetscape

- Engineering Design is 70% complete and submitted to Watershed for stormwater for initial review.
- Town Council approved a contract amendment on 2/14/23 to complete engineering design and permitting.

Next Steps

- o Continuing with Engineering Design and Permitting.
- Obtain easement exhibits and begin appraisals in FY 2023.
- o Bid construction in FY 2024.

5. Calhoun Street Streetscape

• Surveying is complete and preliminary engineering design is 40% complete.

Next Steps

- Continue engineering design into FY 2023.
- o Prepare easement acquisition plats for Phase 1 in June 2023.
- Begin easement acquisition in FY 2024.
- o Phased construction is planned to begin in FY 2025 pending budget approval.

6. Pathway Pedestrian Safety Improvements

- Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
- Phase 1 ADA sidewalk improvements along Goethe Road were completed in January.
- Submitted US DOT RAISE grant application for planning and design of bike and pedestrian safety improvements in Historic District, Goethe/Shults and Buck Island/Simmonsville neighborhoods for implementation in a phased approach.

Next Steps

- o Phase 2 design proposal under review.
- o Pending US DOT RAISE grant award in June 2023.

7. Historic District Comprehensive Drainage Plan Improvements

- Asset inventory and condition assessment complete.
- 2D H/H model development complete.
- Initial Tidal Gauge information gathering at Calhoun St Dock has been completed.
- Review of 2D H/H model development results and area of inundation/choke points complete.

Next Steps

 Establish maintenance and CIP project needs list and Master Planning report to reduce risk of flooding.

8. Pritchard Street Drainage Improvements

- Cranston Engineering is proceeding with 100% design development based on 70% review comments and meeting discussions.
- Project scope has increased to include streetscape elements, pedestrian connectivity, street lighting and traffic calming evaluation.
- Barrier Island Engineering completed a 3rd party evaluation of drainage claims and complaints associated with 40 Pritchard Street. The concept plan of potential onsite drainage improvements that can be performed by the homeowner to reduce the risk of flooding for his property has been delivered.

Next Steps

- Coordinate approval for proposed improvements with Beaufort County School District.
- Complete 100% design submission, permitting submissions and bid document formulation.

PARK DEVELOPMENT

1. Oyster Factory Park

- Executed contract with JS Construction for parking expansion.
- Executed Task Authorization with Witmer, Jones, Keefer for design of the event area.
- Construction of the parking area began in March 2023.
- Design of Phase 3 signage for Garvin/Garvey house completed.

Next Steps

- Continue construction of the parking lot.
- o Begin design of Oyster Factory Park cookout area in FY 2023.

2. Oscar Frazier Park

- Began design of FY 2023 improvements including hardscape near the Rotary Center, sport courts, and splash pad.
- Submitted conceptual plans at Quarterly Workshop and obtained Town Council input. Sent questionnaire for sport court alternatives to Bluffton Park HOA for review and selection of preferred option.

Next Steps

- Obtain TC approval of construction contract for the Rotary Center hardscape plans and execute contract in May 2023.
- Hardscape construction to begin in June.

- Receive Town Council direction on sport courts at April Quarterly Workshop.
- Complete design of splash pad and sport courts in FY 2023.

3. New Riverside Barn/Park

- Construction documents for the restroom building are complete.
- Architectural design services for the Barn additions are 90% complete.
- Design of the playground area is 50% complete.
- JS Construction started phase 1 site construction on 1/27/2023.
- Selected Nix Construction to provide Construction Manager at Risk Services for Phase 2 and 3.

Next Steps

- Complete the architectural design of barn addition.
- Continue design of playground area in FY 2023.
- Continue construction of Phase 1 Site Development Infrastructure.
- o Execute a Construction Manager at Risk contract with Nix Construction.

4. Miscellaneous Park Improvements

Presented proposed DuBois Park playground improvements at the October
 Workshop and TC requested staff to explore alternative playground equipment.

Next Steps

 Continue with the design of DuBois Park playground improvements and present at the April TC Workshop.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. Town of Bluffton Housing Projects

Next Steps

 Provide financial assistance to joint venture partner for planning, design and permitting of Affordable/Workforce Housing at 1095 May River Road.

2. Law Enforcement Center Facility Improvements

- Initial scope of work of the parking/service yard, and covered sheds are complete.
- Clearing for the challenge course is complete.
- Reflection Plaza construction, signage and dedication ceremony are completed.

Next Steps

 Complete construction with The Greenery for the challenge course and expanded area for an impound lot and storage of Public Service maintenance equipment.

3. Sarah Riley Hooks Cottage

- Obtained conceptual master plan concepts from JK Tiller and reviewed with Executive Staff
- Prepared questionnaire and obtained stakeholder input for use of the property and cottage.
- Selected Meadors Inc to provide a Structural Assessment Report to determine the feasibility of preservation or re-construction of the cottage.

Next Steps

• Present Conceptual Master Plan and Structural Assessment to TC for review at the April Workshop.

- Complete Conceptual Master Planning in FY 23.
- Obtain proposal for construction documents of the Cottage preservation or reconstruction. Construction to be determined based on FY 24 budget approval.

4. Ghost Roads

- Surveying and easement exhibits are complete.
- Bridge Street Quit Claim Deeds are complete. Pritchard and Colcock Streets Quit Claim Deeds are 95% complete. Staff is currently working with Lawrence, Lawton, Green, Pope, Allen and Water Street property owners to obtain Quit Claim Deeds.
- Staff continue to meet with property owners to raise awareness of the acquisition efforts and communicate next steps and requested Council assistance.

Next Steps

 Obtain remaining Quit Claim Deeds for Historic District Sewer Phases 4-6 or initiate condemnation proceedings.

5. Document Management

- RFP contract was awarded in March 2022.
- Electronic Document Management system is live.
- Documents for 5 departments have been transitioned to DMS.

• Next Steps:

 Historical documents for the remaining 9 departments will transition through FY 2026.

6. Network Infrastructure

- Replaced core switches at Town Hall and the Law Enforcement Center.
- Replaced two VMWare hosts for a more stable server environment.
- Migration of Munis and Energov systems to a hosted environment completed.
- Replaced phone system to a more modern system.

Next Steps:

- Replacing two more VMWare hosts.
- Implementation of Executime to replace Intime.

WATERSHED MANAGEMENT

1. Stoney Creek/Palmetto Bluff Sewer Partnership

- 2022 updated cost-estimate for the project from BJWSA is \$7.2 million + contingencies. BJWSA has agreed to be the Project Manager.
- Completed DRAFT RIA SCIPP application in support of Stoney Creek/Palmetto Bluff Sewer Extension with BJWSA and Beaufort County. Obtained letters from governmental agencies and stakeholders in support of the application.
- Met with partners to address BJWSA IGA concerns on 3/2/23. A draft 3-party Intergovernmental Agreement is being updated by Director of Procurement.

Next Steps

- Await notification of grant application. Anticipated in late April/early May 2023.
- o BJWSA to procure design engineer through existing MSAs.
- 2. SC Department of Health and Environmental Control May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit Attachments 1 and 1a
- 3. May River Watershed Action Plan Implementation Summary Attachment 2
 - Staff has procured SonTek IQ telemetry stations and are coordinating installation of the equipment.
 - Staff deployed a HOBO-U20 water level logger at the Calhoun Street dock to collect tidal elevation data and staff intends to continue data collection at this location.
- 4. Municipal Separate Storm Sewer System (MS4) Program Update
 - Staff have completed a draft of the MS4 Annual Report as required by SCDHEC.
- 5. MS4 Minimum Control Measure (MCM) #1 Public Education and Outreach, and MS4 MCM #2 Public Participation and Involvement
 - The 03/23/23 May River Watershed Action Plan Advisory Committee (WAPAC) was cancelled. The next scheduled meeting is 04/27/23. **Attachment 3**
 - Staff presented to River Ridge elementary students for Career Day on 3/10/23.
 - Staff continues to coordinate and secure partnerships for the May River Cleanup that will take place 5/06/23.
- 6. MS4 MCM #3 Illicit Discharge Detection and Elimination
 - Stormwater Infrastructure Inventory Map Attachment 4a
 - E. coli Concentrations Trend Map Attachment 4b
 - Monthly, Microbial Source Tracking (MST) Maps Attachments 4c and 4d
 - SC Department of Health and Environmental Control (SCDHEC) collects MST samples for the Town concurrently with their routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC conducted sampling 02/07/23 and 03/14/23. The human genetic marker was detected at three (3) SCDHEC Shellfish Harvesting Stations in the May River. Staff

- notified all pertinent parties of these water quality sampling results via email. March water quality sampling results are pending.
- Illicit Discharge Investigations Attachment 4e
- 7. MS4 MCM #4 Construction Site Stormwater Runoff Control Attachment 5
- 8. MS4 MCM #5 Stormwater Plan Review and Related Activity Attachment 6
- 9. MS4 MCM #6 Good Housekeeping (Staff Training/Education)
 - Staff attended the South Carolina Association of Stormwater Managers (SCASM) quarterly meeting on 03/02/23.
- 10. MS4 MCM #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)
 - Public Services performed weekly street sweeping on Calhoun Street, Highway 46,
 Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
 - Performed ditch inspections.
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)
 - Simmonsville roadside ditch (13,792 LF)
 - Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road and Eagles Field.
- 11. Citizen Drainage, Maintenance, and Inspections Concerns Map Attachment 7
- 12. Citizen Request for Watershed Management Services & Activities Attachment 8

Attachments

- 1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
- 2. May River Watershed Action Plan Implementation Summary*
- 3. MS4 Minimum Control Measures #1 and #2 WAPAC Public Notice
- 4. MS4 Minimum Control Measure #3 Illicit Discharge Detection and Elimination
 - a. Stormwater Infrastructure Inventory Map
 - b. E. coli Concentrations Trend Map
 - c. Microbial Source Tracking Trend Map Human Source
 - d. Microbial Source Tracking Map All Sources
 - e. Illicit Discharge Investigations
- 5. MS4 Minimum Control Measure #4 Construction Site Stormwater Runoff Control
- 6. MS4 Minimum Control Measure #5 Stormwater Plan Review and Related Activity
- 7. Citizen Drainage, Maintenance and Inspections Concerns Map
- 8. Citizen Request for Watershed Management Services and Activities Map
- 9. CIP Project Schedules
- * Attachment noted above includes the latest updates in red.

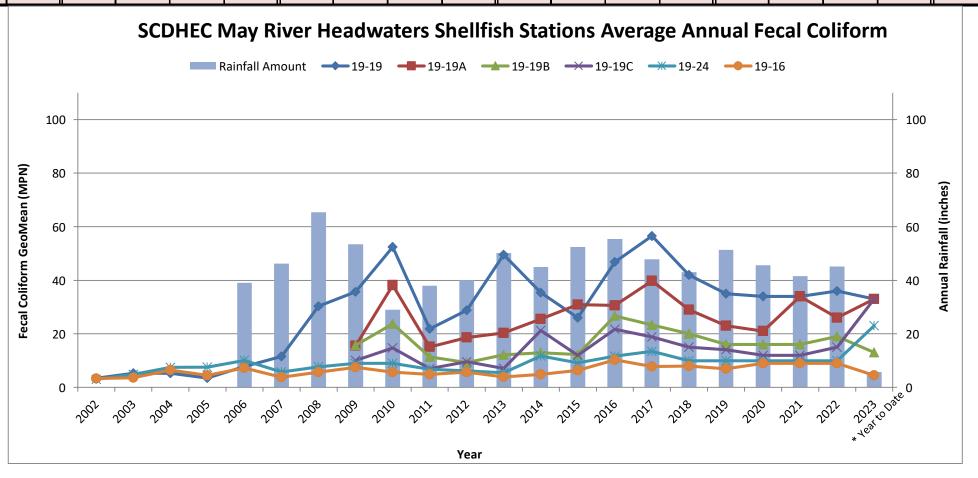
		19	-19			19-	19A			19-	19B			19-	19C			19	-24			19	-16	
	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
	Fecal Coliform (MPN)																							
December	17.0	79.0	33.0		22.0	49.0	49.0		17.0	4.5	17.0		4.5	17.0	49.0		4.0	6.8	6.8		11.0	7.8	13.0	
November	70.0	33.0	33.0		31.0	33.0	13.0		17.0	7.8	7.8		13.0	4.0	4.5		13.0	4.5	6.1		4.5	2.0	13.0	
October	49.0	49.0	23.0		79.0	26.0	46.0		31.0	13.0	13.0		21.0	23.0	23.0		33.0	23.0	11.0		79.0	17.0	14.0	
September	110.0	33.0	540.0		49.0	11.0	350.0		49.0	17.0	350.0		33.0	13.0	170.0		33.0	2.0	79.0		33.0	11.0	33.0	
August	49.0	49.0	23.0		49.0	49.0	23.0		23.0	23.0	11.0		23.0	49.0	13.0		17.0	14.0	17.0		22.0	14.0	11.0	
July	33.0	350.0	920.0		13.0	64.0	49.0		23.0	79.0	95.0		7.8	33.0	130.0		7.8	33.0	23.0		17.0	13.0	46.0	
June	NS	49.0	13.0		NS	79.0	4.5		NS	13.0	11.0		NS	17.0	2.0		NS	22.0	1.8		NS	2.0	9.3	
May	70.0	2.0	4.5		49.0	49.0	4.5		23.0	23.0	4.0		22.0	23.0	1.8		6.8	23.0	1.8		4.5	7.8	2.0	
April	33.0	33.0	4.5		33.0	23.0	4.5		13.0	22.0	1.8		6.8	17.0	2.0		13.0	7.8	1.8		13.0	2.0	1.8	
March	170.0	33.0	33.0		49.0	11.0	23.0		130.0	17.0	2.0		49.0	13.0	4.5		70.0	2.0	2.0		33.0	2.0	2.0	
February	17.0	79.0	23.0	540.0	7.8	70.0	31.0	350.0	21.0	79.0	17.0	240.0	4.5	23.0	22.0	240.0	4.5	7.8	2.0	33.0	6.8	6.8	11.0	33.0
January	95.0	17.0	49.0	33.0	33.0	17.0	22.0	33.0	33.0	13.0	33.0	13.0	17.0	23.0	7.8	33.0	17.0	17.0	7.8	7.8	17.0	7.8	7.8	4.5
** Truncated GeoMetric Mean	34.0	36.0	40.0	40.0	21.0	26.0	28.0	30.0	16.0	18.0	18.0	17.0	12.0	15.0	14.0	16.0	10.0	10.0	9.0	9.0	9.0	8.0	9.0	7.0
** Truncated 90th Percentile	106.0	139.0	192.0	249.0	59.0	69.0	91.0	122.0	50.0	58.0	72.0	86.0	37.0	39.0	54.0	82.0	31.0	35.0	41.0	42.0	35.0	33.0	32.0	26.0

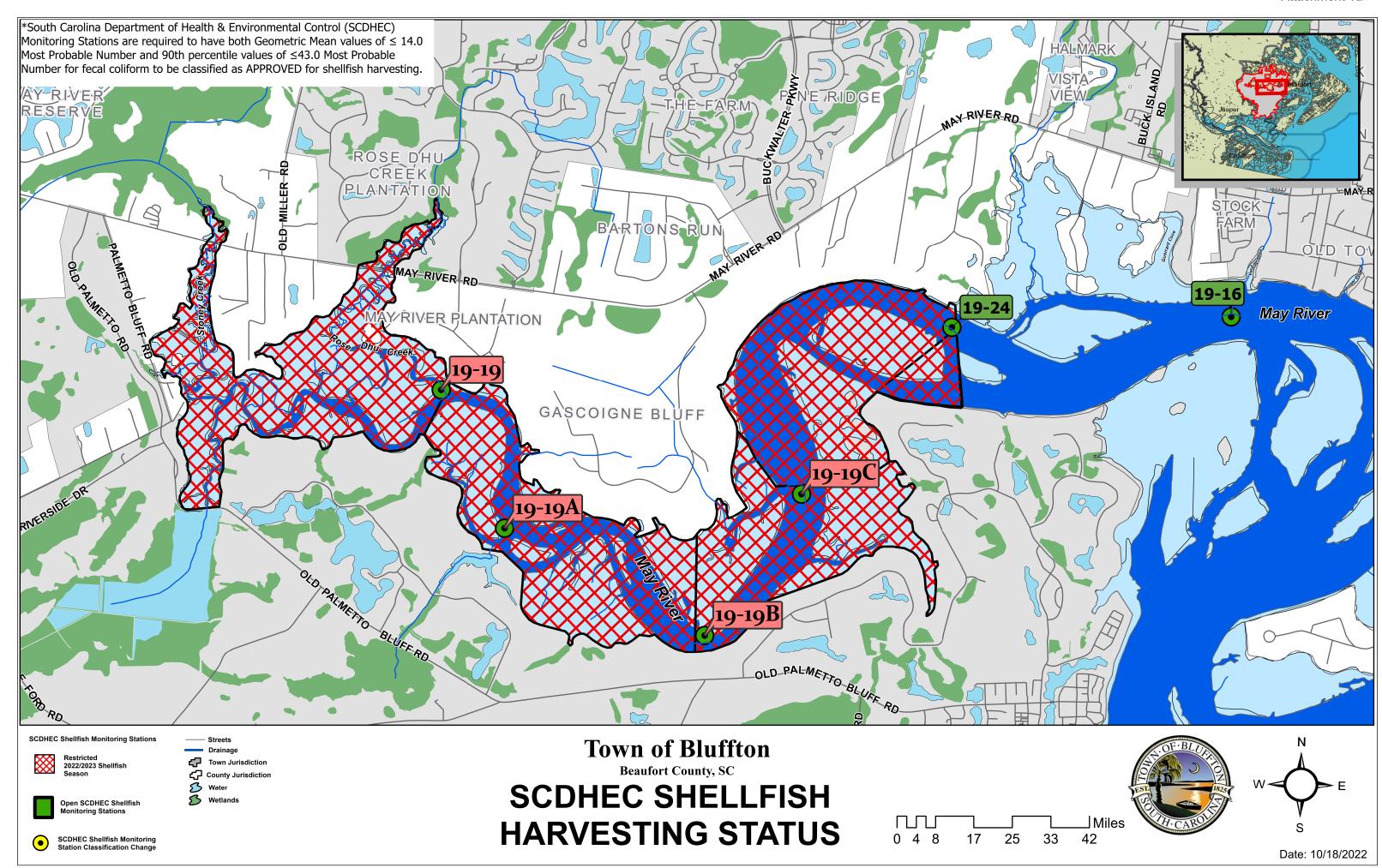
NS = No Sample

SCDHEC Regulatory Requirements:

Geometric Mean ≤ 14 90th Percentile ≤ 43

** Town staff calculations utilizing SCDHEC statistics





WAPAC Meeting Presentation May River Watershed Action Plan Update & Modeling Report Overview and Status August 25, 2022

Updated February 23, 2023

Overview

- May River Watershed Action Plan Update & Modeling Report completed November 2020.
- Town Council Adoption of May River Watershed Action Plan Update as a Supporting Document to the Comprehensive Plan completed February 2021.
- May River Watershed Action Plan Update & Modeling Report Summary:
 - Executive Summary provides an overview of the project background, findings and interpretation, current state of knowledge concerning fecal coliform fate and transport, and an overview of proposed recommendations for the Town.
 - 1.0 Introduction includes more detailed project background including the purpose of the document and the Project Team's tasks to 1) develop water quality models to compare current conditions (2018) to pre-shellfish impairment conditions (2002) to develop pollutant load reduction estimates, and 2) evaluate 2011 Action Plan BMPs for appropriateness under current conditions and provide up to eleven (11) alternative projects and preliminary cost estimates.
 - 2.0 Model Setup; 3.0 Model Calibration, and 4.0 Water Quality Model Results details the methodology used by the Project Team to establish and calibrate the models and the model outputs. This highly technical information is necessary for future Water Quality (WQ) Model calibration and use for consistency.
 - 5.0 Recommendations includes strategies to improve the Town's monitoring efforts to calibrate the WQ Model further (§5.1), strategies and BMPs for bacteria reduction (§5.2), an evaluation of 2011 Action Plan BMP projects (§5.3), and methodology used to develop 2020 Action Plan Update recommended projects (four septic to sewer conversion projects and eleven stormwater BMP retrofit projects) with cost-estimates and ranking/prioritization (§5.4).
 - 6.0 Conclusions offers a summary of the WQ Model results in context of current state of knowledge.
 - o **7.0 References** documents the prior research findings used to inform recommendations.
 - Appendices reference supporting materials:
 - Montie et al. (2019) "Technical Report: Historical Analysis of Water quality, Climate Change Endpoints, and Monitoring in Natural Resources in the May River,"
 - Technical Memo from Dr. Rachel Noble,
 - Watershed Treatment Model Spreadsheets, and
 - Detailed Project Cost Estimate Spreadsheets.

MRWAP 2020 Update Septic to Sewer Project Recommendations/Evaluations:

- Four (4) septic to sewer conversion projects were evaluated in the Rose Dhu Creek and Stoney Creek subwatersheds:
 - Cahill
 - Gascoigne
 - Stoney Creek
 - Pritchardville
 - These projects overlap with 42 subcatchments in the Stoney Creek watershed and 11 in Rose Dhu Creek. Based on WQ Model outputs, these projects alone may potentially reduce FC loading by 3.46x10¹³ FC per year.
- The estimated septic to sewer conversion costs of these projects is \$5.5 million.

Work Performed and Current Status as of August 25, 2022 Meeting

Discussions with the Town, Beaufort County and BJWSA have been held about future Septic to Sewer Program projects identified above. Stoney Creek Septic to Sewer Project has been identified as the next priority project to pursue under the Septic to Sewer Program.

 The Town and Beaufort County are finalizing Funding and Cost share elements relative to the project and a letter to BJWSA will be developed and sent to BJWSA regarding project funding, capital outlay and schedule for implementation.

Update for WAPAC February 23, 2023 Meeting:

The Town, Beaufort County and BJWSA continue to work on details to draft a proposed Inter-Governmental Agreement (IGA) to be presented to each respective approving authority for review, finalization, and approval. It is anticipated that this process is months away from final approval/adoption of the respective parties.

MRWAP Update Eleven Impervious Restoration (stormwater retrofit) Project Recommendations/Evaluations:

Eleven (11) project sites (incorporating various individual BMPs) were selected in consultation
with the Town (prioritizing subcatchments with FC bacteria hotspot and/or large impervious
areas). These sites were evaluated in terms of the potential benefits gained by retrofitting to
meet the 95th percentile storm retention, to the maximum extent possible, under the proposed
Impervious Area Restoration/Stormwater Retrofit Program.

Eleven (11) proposed project sites Rose Dhu Creek (6 projects) and Stoney Creek (5 projects):

- Bluffton Early Learning Center (BELC)
- Boys and Girls Club of Bluffton (BGC)
- Benton House (BH)
- Bluffton High School (BHS)
- Buckwalter Recreation Center (BRC)

- Lowcountry Community Church (LCC)
- McCracken Middle School/Bluffton Elementary School (MMSBES)
- May River High School
- One Hampton Lake Apartments (OHLA)
- Pritchardville Elementary School (PES)
- Palmetto Pointe Townes (PPT)
- Based on WQ Model outputs, these projects alone may potentially reduce FC loading by
 - 2.99×10¹⁴ FC reduction for the Full SWRv (entire sub-basin drainage area catchment).
 - 2.53×10¹⁴ FC reduction for the Reduced SWRv projects (impervious area drainage area of sub-basin catchment).
- The estimated of Full SWRv projects costs is \$32.7 million and the estimated cost of Reduced SWRv projects is \$22.6 million.
- Currently the Towns' Impervious Restoration Program is targeting Reduced SWRv for future projects.

Example of Impervious Restoration Project evaluation from May River Watershed Action Plan Update & Modeling Report:



Figure 52. McCracken Middle School/Bluffton Elementary School Proposed Stormwater BMP Retrofits

Work Performed and Current Status as of August 25, 2022 Meeting

Update for WAPAC February 23, 2023 Meeting:

 Drafted a detailed scope of work for Engineering Consultant Firm review and cost proposal (Expression of Interest) regarding performance of the following work elements related to MRWAP Update recommendations for implementation:

Task 1: MRWAP Update 11 site locations

Eleven (11) proposed project sites Rose Dhu Creek (6 projects) and Stoney Creek (5 projects):

Yellow highlight indicates geotechnical evaluations complete.

- Bluffton Early Learning Center (BELC). Participating in preliminary design development phase.
- Boys and Girls Club of Bluffton (BGC). Participating in preliminary design development phase.
- Benton House (BH). Participating in preliminary design development phase.
- Bluffton High School (BHS). Participating in preliminary design development phase.
- Buckwalter Recreation Center (BRC). Participating in preliminary design development phase.
- Lowcountry Community Church (LCC). Declined to Participate.
- McCracken Middle School/Bluffton Elementary School (MMSBES).
 Participating in preliminary design development phase.
- May River High School. Participating in preliminary design development phase.
- One Hampton Lake Apartments (OHLA). Participating in preliminary design development phase.
- Pritchardville Elementary School (PES). Participating in preliminary design development phase.
- Palmetto Pointe Townes (PPT). **Declined to Participate.**
- Evaluate 11 sites and proposed BMPs. Complete.
- Update concept plans for 11 sites based on site evaluations, recommendations and discussions. Complete.
- Perform geotechnical evaluations at each site at locations related to BMP locations of updated concept plans. Completed for the 5 school sites. Geotechnical evaluations for the remaining 4 participating partner sites are being schedule based on recent property owner participation status being known/confirmed.
- Refine updated concepts and use for presentations to Property Owner to discuss Impervious Restoration Program goals, objectives and gain support for Program and their participation.
 - Developpe list of "incentives" to secure Property Owner participation (see Policy Document Formulation below).

- Based on geotechnical information and Property Owner feedback further refine concept plans to Preliminary Design:
 - Determine BMP types and location to maximize SWRv/WQ treatment in cost effective approach.
 - Determine estimated pollutant load reductions.
 - Develop site specific BMP details.
 - Develop preliminary BMP maintenance schedule and cost for each site.
- Preliminary Design development plans will be presented to the Property
 Owner for review and discussion. Other Restoration Program details
 (maintenance responsibilities, easements, incentives, etc.) developed as
 part of the Program (see Policy Document Formulation below) will also
 be discussed in hopes of establishing a commitment from the Property
 Owner to participate in the Program. Once a "commitment" is secured
 from the Property Owner, the project site will be moved to Final design,
 permitting, and ultimately construction.

Task 2: Identify 15 new project sites for Town of Bluffton Impervious Restoration/BMP Retrofit Projects.

- The Town wishes to identify an additional 15 project sites located within the municipal limits of Bluffton for the Impervious Restoration/BMP Retrofit Program. However, the criteria for site selection will be considered to be more "low hanging fruit" based on the following:
 - Within Town of Bluffton Municipal limits.
 - Soils sandy soils with high infiltration rates offer the biggest bang for the buck for water quality treatment/improvement.
 Utilizing soil survey and other information target sites where infiltration can be maximized on-site.
 - Public or governmental agency land/property owner (not SCDOT RoW).

Update for WAPAC February 23, 2023 Meeting:

Desktop analysis and field work performed to develop a list of 45 sites that potentially meet the criteria above. This list of potential sites is under review/evaluation.

Town of Bluffton Impervious Restoration/BMP Retrofit Policy Documents.

Task 3: Section 5.4.4. Stormwater BMP Retrofit Projects of the May River Watershed Action Plan Update and Model Report identifies potential Impervious Restoration/BMP Retrofit projects located on Public and Private Land. As mentioned earlier, one of the primary site selection criteria, at time of report development, was to identify sites with large impervious areas so that pollutant load reductions could be estimated and the benefits of such projects on stormwater quality quantified/estimated, if implemented into construction. Generally, Public Funds are not expended to improve private property nor is Town of Bluffton funding generally expended on Public Land owned by another government entity. In order for such projects identified in Section 5.4.4. to move forward in the interest of improved water quality and for the overall

benefit and welfare of the constituents of the Town of Bluffton, Policy Documents need to be formulated that establishes the parameters of such a Program to be initiated and implemented.

Work Performed and Current Status as of August 25, 2022 Meeting

- The Expression of Interest was submitted to 3 consultant firms under existing Master Service Agreements with the Town for review and a request for response.
- All 3 Firms responded and their respective responses were evaluated, scored and discussed internally.
- A recommendation for Award was made and the Consulting Firm of Goodwyn, Mills and Cawood selected.
 - 1. Phase I of this work is in process under existing FY 22 funding from Watershed Management Division.
 - 2. Phase II of this work will be presented for Town Council review and approval in the August Town Council Meeting and FY23 funding.

Update for WAPAC February 23, 2023 Meeting:

Phase II work was approved by Town Council and work has been initiated and reported herein.

- Phase I work completed by Consultant and Town:
 - 1. Review of recommendations of the MRWAP Update.
 - 2. On-site evaluations at each proposed site.
 - 3. Meetings with Beaufort County School District.
 - 6 of the 11 sites are located on School property. The School District is deemed an important project partner and as such several meeting have been help to discuss the program and need for project BMPs to improve water quality. The School District has granted permission for us to perform initial site investigations, provided site specific plan information, future development plans on each site and expressed a willingness to participate in the Program.
 - Drafted a Letter to Non-School Property Owners describing the Impervious Restoration Program goals and objectives and requesting a meeting to discuss and gain support.
 - 4. Policy Document Formulation has been initiated and includes research of similar Programs Nationwide.

Update for WAPAC February 23, 2023 Meeting:

2 *DRAFT* Policy Documents have been submitted for review and comment. Comments are being evaluated and addressed by consultant and an update *DRAFT* Policy Document is expected by April 2023.

Other, Related MRWAP Update Recommendations

- Adopt proposed regional Southern Lowcountry Post Construction Stormwater Ordinance and Design Manual - complete September 2021.
- The Town should incorporate volume reduction BMPs (those that encourage infiltration) within existing and future CIP projects to the maximum extent practical, especially for project locations with well-drained soils (HSG A or B) in progress, see below.

Work Performed and Current Status as of August 25, 2022 Meeting

- Bridge Street Streetscape Project
 - Project design/permitting is complete, and Construction Contract has been awarded.
 - Incorporated Infiltration BMPs within the project to capture and treat 1.95" of rainfall over impervious surfaces within the project area, prior to discharge into the May River.
 - Received Section 319 Grant from DHEC to cost-share cost of construction of proposed BMPs.

Update for WAPAC February 23, 2023 Meeting

Construction was initiated by JS Construction in early December 2022. Construction considered 65% complete.

- Pritchard Street Drainage Improvement Project
 - Project in Design Phase and considered 30% complete.
 - Incorporated Infiltration BMPs within the project to capture and treat 1.95" of rainfall over impervious surfaces within the project area, prior to discharge into Heyward Cove.
 - Submitted Section 319 Grant proposal to DHEC to cost-share cost of construction of proposed BMPs. Pre-proposal was accepted, and Full Proposal was requested by DHEC. Under Review.

Update for WAPAC February 23, 2023 Meeting

- 70% design plan submitted, reviewed and comments presented to consultant.
- 319 Grant was awarded by DHEC to the Town.
- In-House Microbial Source Tracking in progress, see below
 - The Town entered a Memorandum of Understanding (MOU) with the University of South Carolina Beaufort (USCB) in July 2021 to establish and fund a regional Microbial Source Tracking (MST) laboratory capable of accepting environmental water quality samples.
 - Analytical services are provided by the USCB-MST laboratory for all environmental samples collected by the Town.
 - Update for WAPAC February 23, 2023 Meeting
 Staff has collected additional fecal samples needed for dog, bird, and deer. The USCB-MST Laboratory is conducting the assessment on additional fecal samples and Dr. Pettay will provide a final report to the Town once all fecal markers in regional watersheds have been analyzed.
- Future (new) Bacteria Monitoring Locations in progress, see below
 - Staff increased sampling frequency and implemented additional monitoring sites and parameters in the May River headwaters based upon recommendations in the 2020 May River Watershed Action Plan Update and Model Report.
 - Update for WAPAC February 23, 2023 Meeting Staff is collecting intermittent flow data at SonTek IQ sites in conjunction with grab FIB samples.
 - Update for WAPAC February 23, 2023 Meeting
 Staff is working with the consultant to identify recommended strategies for intermittent flow data collection and a review of the Town's FIB grab sample schedule.

- Future (new) Water Flow Monitoring Locations.
 - o Work Performed and Current Status as of August 25, 2022 Meeting
 - The MRWAP Update included recommendations for the Town to perform certain rainfall and flow data measurements in May River Headwater Watersheds in order to "calibrate" and make more accurate Model predictions. These recommendations were evaluated and a game plan to address recommendations to calibrate model developed.
 - Utilizing existing flow and rainfall data collected over past years with rain gauges, IQ Plus and Sontek measuring instruments in Stoney Creek, Rose Dhu Creek, Palmetto Bluff, Duck Pond and Heyward Cove, the Town hired a consultant to review the data and determine:
 - Useful data obtained to gain the required information to calibrate model.
 - The data obtained from Stoney Creek and Heyward Cove was deemed sufficient for Model calibration and Final report for this work is in process.
 - Duck Pond was deemed inconsequential, not needed due to drainage area size and proximity/outfall to tidal waters.

Update for WAPAC February 23, 2023 Meeting

- Consultant Final Report delivered, and Model Calibration Data for Stoney Creek and Heyward Cove identified.
- If data review resulted in insufficient data, develop a monitoring program that would produce the data needed.
 - Rose Dhu Creek and Palmetto Bluff flow data review resulted in data that was insufficient to calibrate Model.
 - Final report identifying recommended strategies to gain required data is in process.
 - Potential purchase of telemetry stations to equip continuous flow monitoring stations with real-time data access.

Update for WAPAC February 23, 2023 Meeting

 Final Report delivered. Based on recommendations of data and process needed, staff has procured needed telemetry station equipment and has hired a consultant to assist in getting the intermittent and continuous flow data and producing a Final Report. The field work installation of equipment is being scheduled. Once installed and operational, data collection will last 6 months.



PUBLIC NOTICE

The May River Watershed Action Plan Advisory Committee (WAPAC) meeting scheduled for

Thursday, March 23, 2023, at 3:00 P.M.

has been

CANCELLED

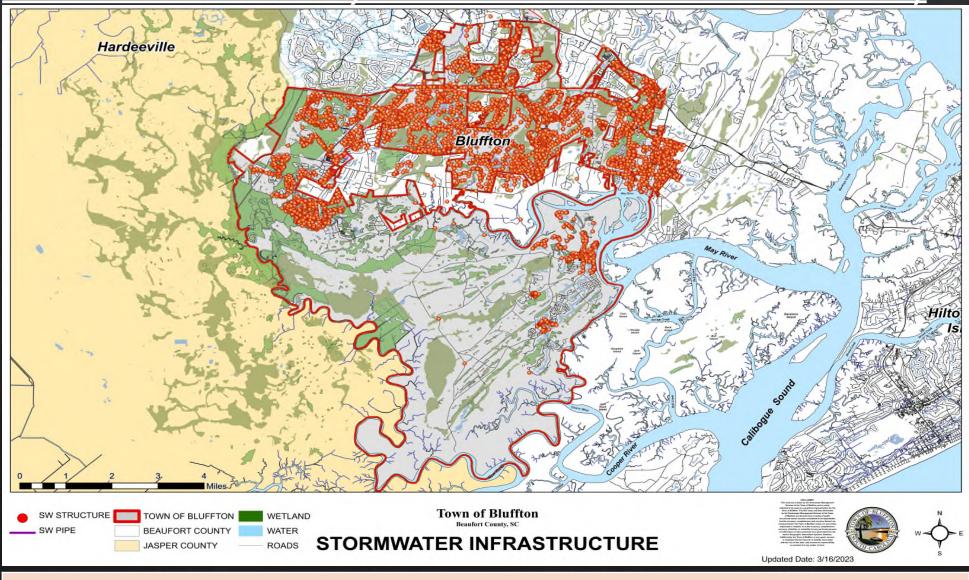
due to lack of quorum.

The next meeting is scheduled for

Thursday, April 27, 2023

If you have questions, please contact the Watershed Management Division at: 843-706-4559

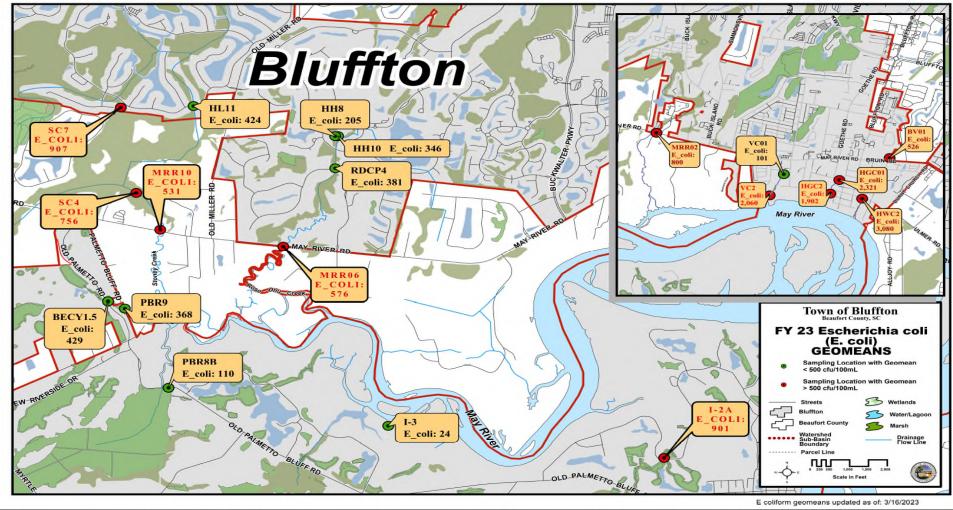
Attachment 4a <u>MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge</u> <u>Detection & Elimination): Stormwater Infrastructure Inventory</u>



Stormwater Infrastructur	re Inventory Collection Status
Collection Totals	16,657
FY 2023 YTD Collection Totals	2,341
FY 2022 Collection Totals	2705

Attachment 4b

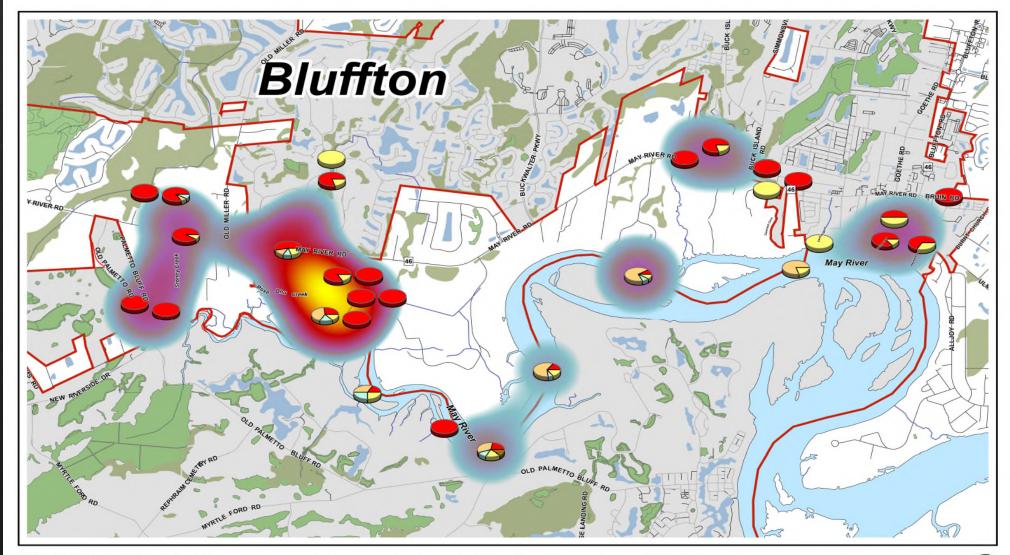
MS4 Minimum Control Measure #3 – IDDE: E. coli Concentrations Trend Map



	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2023 YTD Totals	430	78	72
FY 2022 Totals	447	78	119
FY 2021 Totals	380	115	179

Attachment 4c

MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map



MSTSamplingResults MST Sampling Sites



Representative of Low Sampling Distribution Representative of High Sampling Distribution

MICROBIAL SOURCE TRACKING (MST) LOCATIONS Samples at Sites With Positive Detection

and the Intensity of Positive Hits

Town of Bluffton



Town Jurisdiction **Beaufort County**

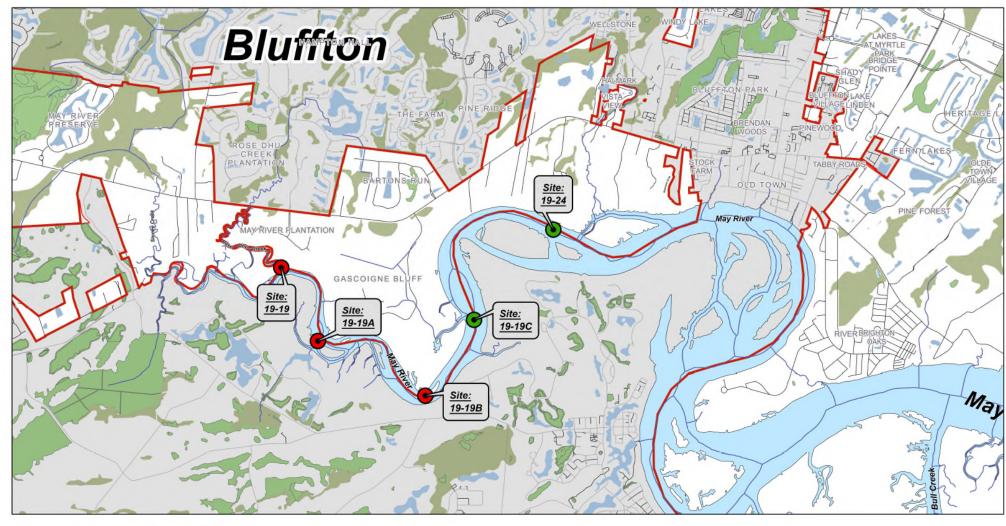






Attachment 4d

<u>MS4 Minimum Control Measure #3 – IDDE:</u> <u>Microbial Source Tracking (MST) Map – Human Sources</u>





Town Jurisdiction



MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results February 2023

Town of Bluffton

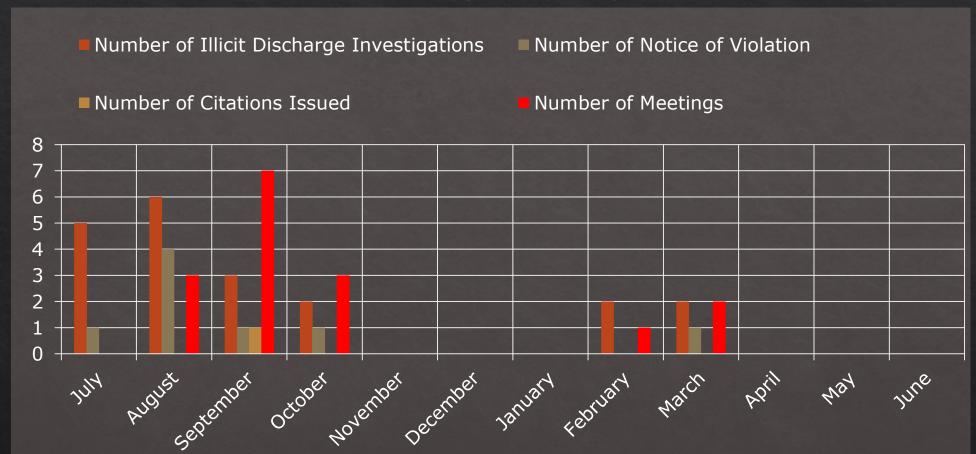






Attachment 4e

MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations

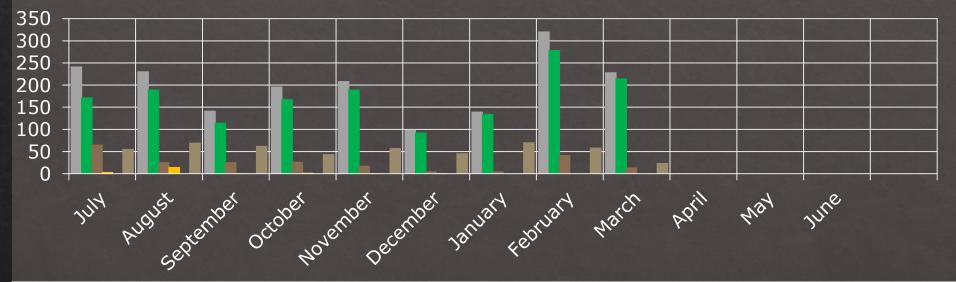


	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2023 YTD Totals	20	8	1	16
FY 2022 Totals	30	5	3	17
FY 2021 Totals	36	11	1	29

MS4 Minimum Control Measure #4 - Construction Site Stormwater Runoff Control

- Erosion & Sediment Control Inspections (E&SC)
- Number of Notice of Violation (NOV)
- Number of Citations Issued

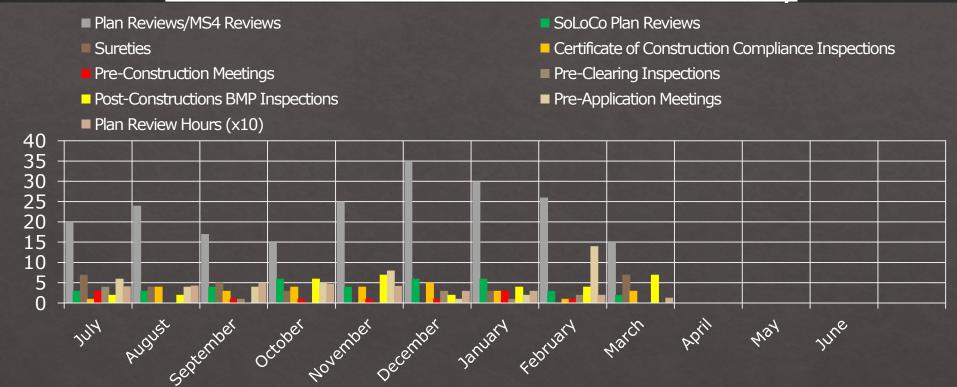
- Number of Inspections Passed
- Number of Stop Work Orders (SWO)
- Number of Erosion & Sediment Control Meetings



	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of Citations Issued	Number of E&SC Meetings
FY 23 YTD Totals	1810	1557	229	24	0	491
FY 2022 Totals	3127	2701	392	49	0	673
FY 2021 Totals	1,805	1,527	267	32	4	413

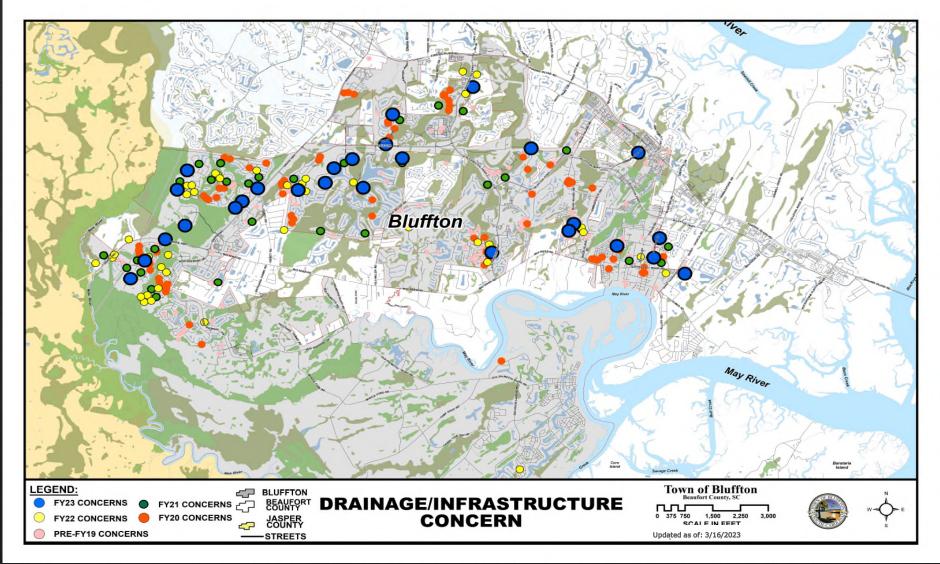
Attachment 6

MS4 Minimum Control Measure #5 Stormwater Plan Review & Related Activity



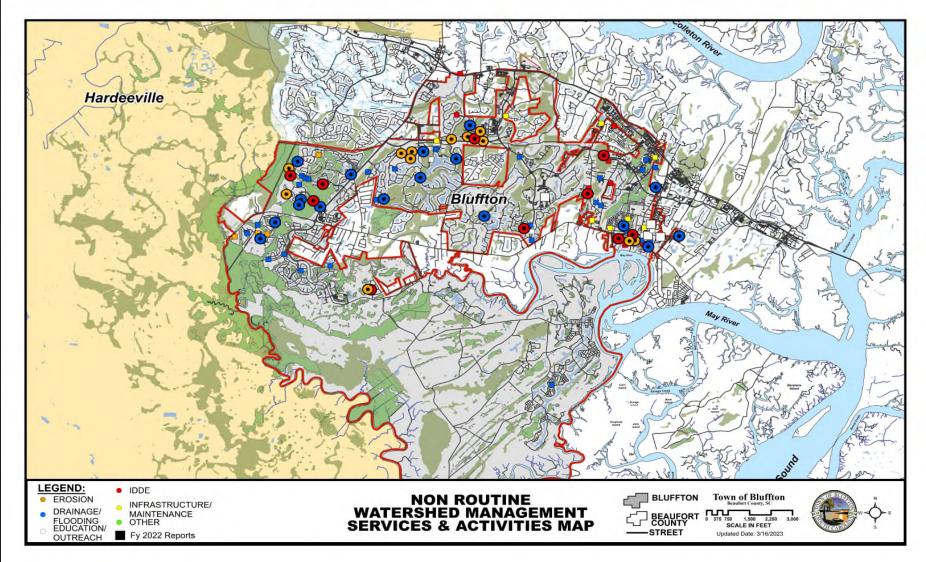
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre- Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2023 YTD	207	37	29	28	11	11	34	44	315 Hrs.
FY 2022 Totals	231	13	42	26	30	23	44	26	454 Hrs.
FY 2021 Totals	186	0	61	55	24	24	22	41	789 Hrs.

Attachment 7 <u>Citizen Drainage, Maintenance and Inspections Concerns Map</u>

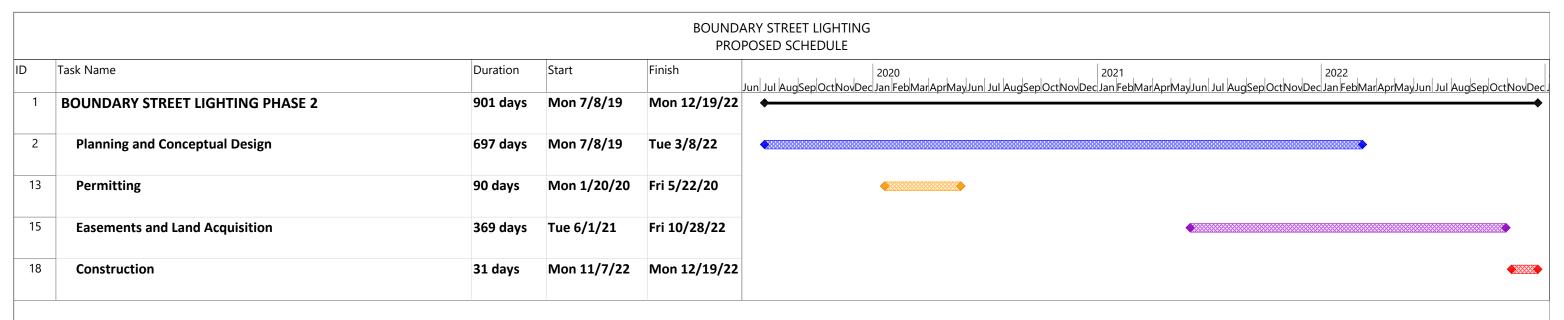


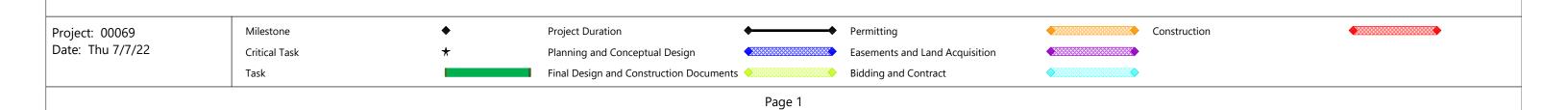
	Number of Drainage Concerns Investigated	Number of Meetings
FY 2023 YTD Totals	52	44
FY 2022 Totals	38	34
FY 2021 Totals	45	39

Attachment 8 Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2023 YTD Totals	8	10
FY 2022 Totals	33	21
FY 2021 Totals	46	36





BOUNDARY STREET STREETSCAPE PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessors	Finish	Quarte 4th Quarte 1st Quarte 2nd Quarte 3rd Quarte 4th Quarte 1st Quarte 2nd Quarte 3rd Quarte 4th Quarte 1st Quarte 1st Quarte 1st Quarte 2nd Quarte 2nd Quarte 4th Quarte 2nd Quarte 4th Quarte 2nd Quarte 2nd Quarte 3rd Quarte 4th Quarte 2nd Quarte 2nd Quarte 3rd Quarte 4th Quarte 2nd Quarte 2nd Quarte 3rd Quarte 2nd Quarte 2nd Quarte 3rd Quarte 2nd Quarte 3rd Quarte 2nd
1	BOUNDARY STREET STREETSCAPE	689 days	Mon 9/7/20		Thu 4/27/23	♦
2	Planning and Conceptual Design	379 days	Mon 9/7/20		Thu 2/17/22	
14	Final Planning and Construction Documents	260 days	Fri 2/18/22		Thu 2/16/23	
20	Permitting Phase	150 days	Fri 10/28/22		Thu 5/25/23	
25	Easements and Land Acquisition	268 days	Fri 10/28/22		Tue 11/7/23	

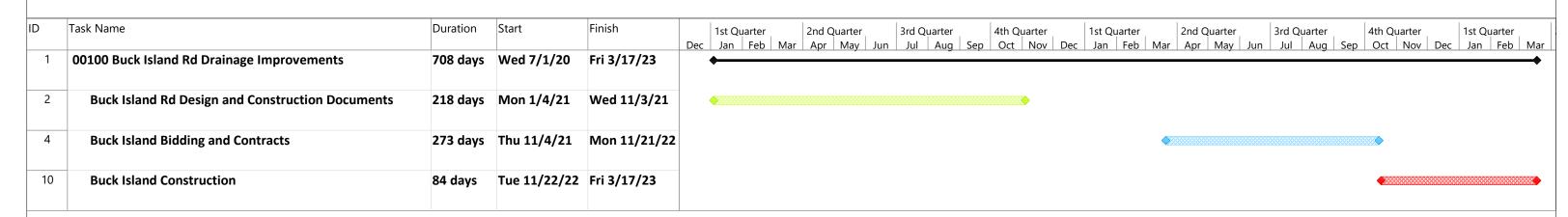
Permitting \Diamond Task Baseline Baseline Milestone Project: 00094 Project Duration → Bidding and Contract **Baseline Summary** Date: Tue 2/21/23 Planning and Conceptual Design **Easements and Land Acquisitions** Milestone Final Design and Construction Documents Critical Task Construction

BRIDGE STREET STREETSCAPE PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	September October November December January February March April May June July August September October 9/4 9/18 10/2 10/16 10/30 11/13 11/27 12/11 12/25 1/8 1/22 2/5 2/19 3/5 3/19 4/2 4/16 4/30 5/14 5/28 6/11 6/25 7/9 7/23 8/6 8/20 9/3 9/17 10/1 10/15 1
1	Bridge Street Streetscape	287 days	Tue 9/20/22	Wed 10/25/23	•
2	Construction	287 days	Tue 9/20/22	Wed 10/25/23	

Project: 00082 Milestone **Project Duration** Permitting Construction Date: Tue 2/21/23 Critical Task Planning and Conceptual Design Easements and Land Acquisition Final Design and Construction Documents Bidding and Contracts Task

BUCK ISLAND ROAD DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE



Project: 00100
Date: Tue 2/21/23

Milestone
Critical Task
Task
Task
Final Design and Construction Documents

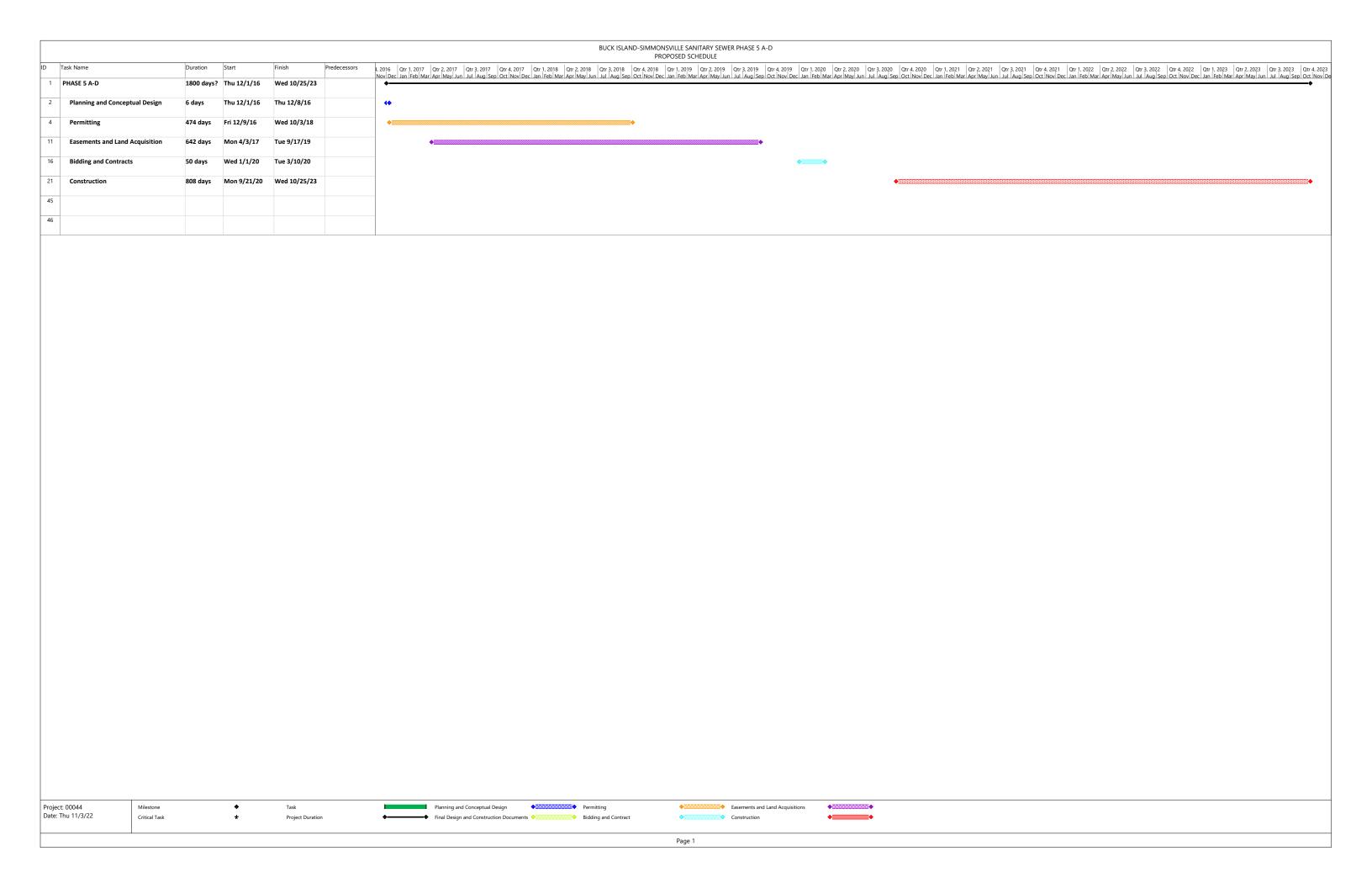
Permitting
Construction

Construction

Construction

Construction

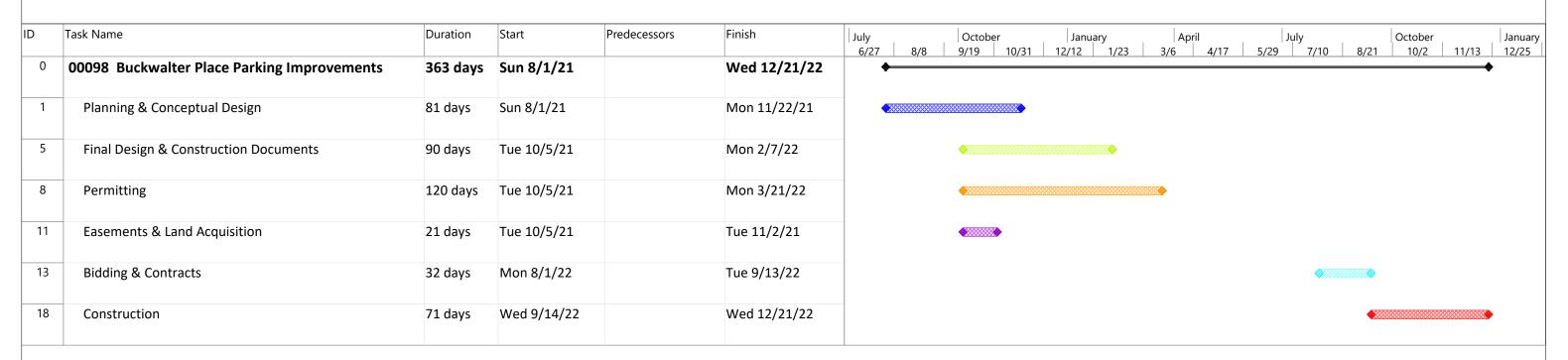
Easements and Land Acquisitions



BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS PROPOSED SCHEDULE



184 BLUFFTON ROAD PARKING IMPROVEMENTS PROPOSED SCHEDULE



Project: 00064
Date: Thu 7/7/22

Milestone

Critical Task

Task

Milestone

Project Duration

Permitting

Construction

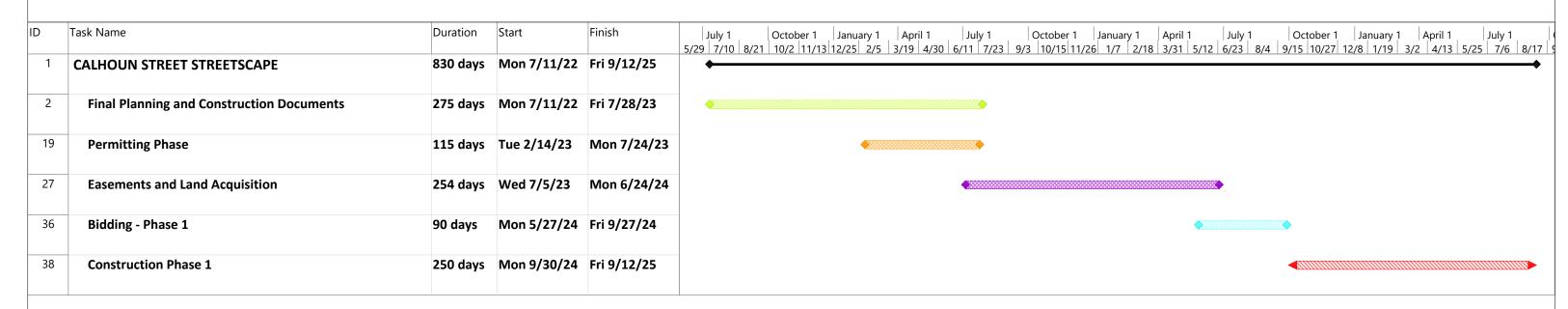
Permitting

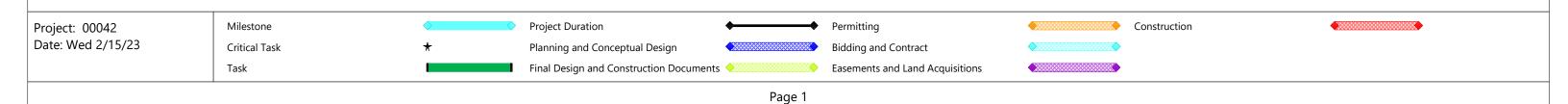
Easements and Land Acquisition

Bidding and Contracts

Bidding and Contracts

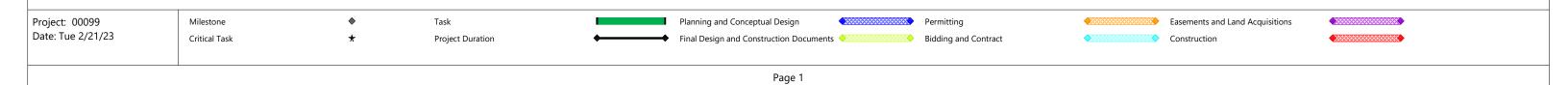
CALHOUN STREET STREETSCAPE PROPOSED SCHEDULE



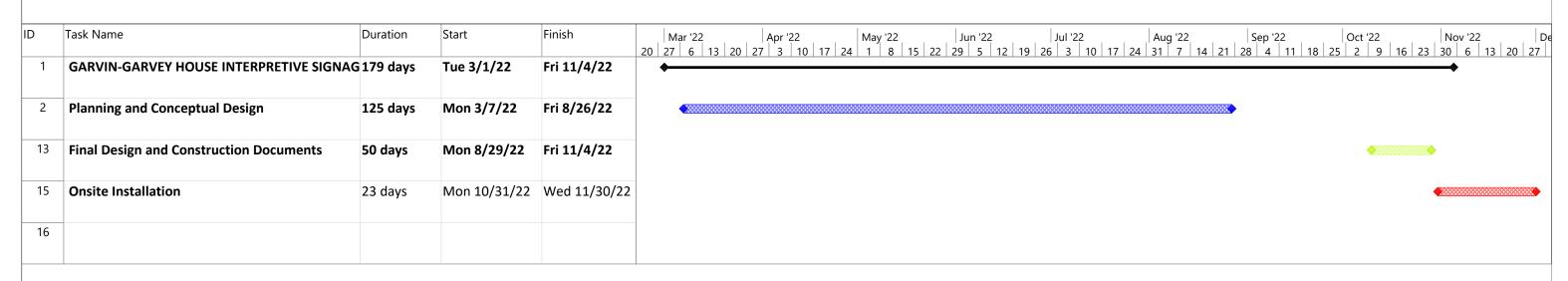


COMPREHENSIVE DRAINAGE PLAN IMPROVEMENTS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr 4, 2022 Qtr 4, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr 3, 2024 Qtr 3, 2024 Qtr 3, 2024 Qtr 4, 2024 Qtr 1, 2025 Qtr 2, 2025 Qtr 3, 2025 Qtr 4, 2025 Qtr 1, 2026 Qtr 2, 2026 Qtr 3, 2026 Qtr 3, 2026 Qtr 4, 2026 Qtr 3, 2026 Qtr 4, 2027 Qtr 3, 2026 Qtr 4, 2025 Qtr 3, 2025 Qtr 4, 2025 Qtr 4, 2025 Qtr 4, 2025 Qtr 4, 2025 Qtr 3, 2026 Qtr 4, 2026 Qtr 3, 2026 Qtr 4, 2026 Qtr 4, 2026 Qtr 3, 2026 Qtr 4,
1	Comprehensive Drainage Plan Improvements	1391 days	Thu 7/1/21	Thu 10/29/26	
2	Planning	822 days	Mon 8/2/21	Tue 9/24/24	
13	Final Design and Construction Documents	566 days	Mon 4/15/24	Mon 6/15/26	
16	Bidding and Contracts	608 days	Mon 7/1/24	Wed 10/28/26	5
19	Construction	354 days	Mon 6/23/25	Thu 10/29/26	



GARVIN-GARVEY HOUSE INTERPRETIVE SIGNAGE PROPOSED SCHEDULE



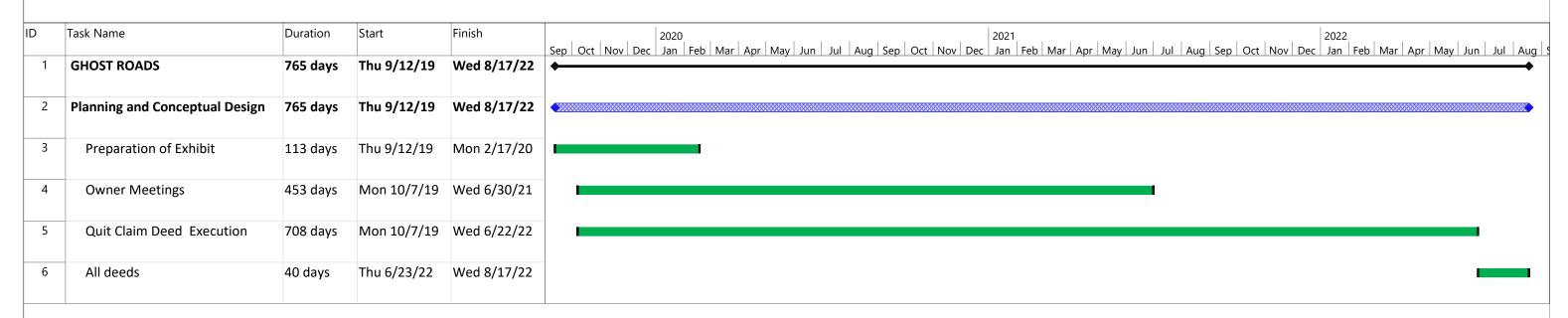
Project: 00081
Date: Mon 9/19/22

Milestone
Critical Task
Task
Planning and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisition
Bidding and Contracts

GHOST ROADS PROPOSED SCHEDULE



Project: 00093
Date: Wed 11/23/22

Milestone

Critical Task

Task

Milestone

Project Duration

Permitting

Construction

Final Design and Conceptual Design

Bidding and Contracts

Construction

Bidding and Contracts

GOETHE-SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2 PROPOSED SCHEDULE Start Finish ID Task Name Duration 1, 2018 Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2022 Half 2, 2022 Mar May Jul Sep Nov Jan GOETHE/SHULTS NEIGHBORHOOD IMPROVEMENTS 970 days Mon 4/30/18 Fri 1/14/22 PHASE 2 PLANNING AND CONCEPTUAL DESIGN 326 days Mon 4/30/18 Mon 7/29/19 12 FINAL DESIGN AND CONSTRUCTION DOCUMENTS 209 days Tue 7/30/19 Fri 5/15/20 21 128 days Mon 5/18/20 Wed 11/11/20 PERMITTING 25 **EASEMENTS AND LAND ACQUISITION** 187 days Mon 4/6/20 Tue 12/22/20 **BIDDING AND CONTRACTS** 101 days Tue 12/1/20 Tue 4/20/21 CONSTRUCTION 468 days Wed 4/21/21 Fri 2/3/23

Project: 00055
Date: Mon 9/19/22

Miletstone
Critical Task
Planning and Conceptual Design
Final Design and Construction Documents
Bidding and Contracts

Construction

Construction

Bidding and Contracts

Construction

Construction

Construction

Construction

Documents

Bidding and Contracts

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2022 Half 2, 2022 Half 1, 2023 Half 2, 2021 Half 2, 2022 Half 1, 2023 Half 2, 2021 Half 2, 2022 Half 2, 2022 Half 3, 2023 Half 2, 2021 Half 2, 2021 Half 3, 2022 Half 2, 2022 Half 3, 2023 Half 2, 2021 Half 3, 2022 Half 3, 2022 Half 3, 2023 Half
1	PHASE 2	1300 days	Mon 7/2/18	Fri 6/23/23		•
2	Planning and Conceptual Design	185 days	Mon 7/2/18	Fri 3/15/19		
10	Final Design and Construction Documents	20 days	Mon 3/18/19	Fri 4/12/19		
12	Permitting	55 days	Mon 4/15/19	Fri 6/28/19		
15	Easements and Land Acquisition	550 days	Mon 7/1/19	Fri 8/6/21		
17	Redesign and Construction Documents	185 days	Mon 2/28/22	Fri 11/11/22		
22	Bidding and Contracts	87 days	Mon 11/14/22	Tue 3/14/23		
27	Construction	73 days	Wed 3/15/23	Fri 6/23/23		

Project: 00071
Date: Mon 2/20/23

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisitions
Bidding and Contracts

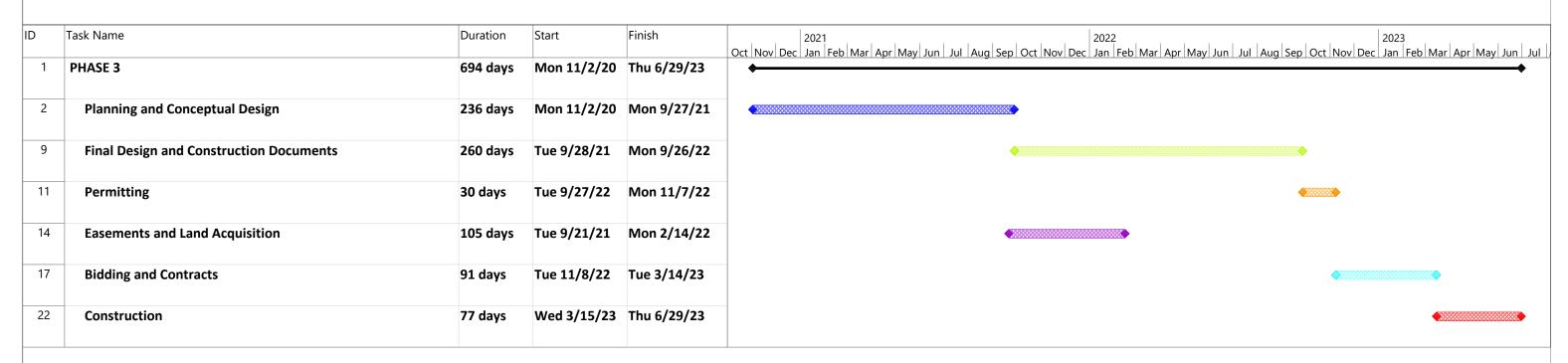
Permitting

Construction

Construction

Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3 PROPOSED SCHEDULE

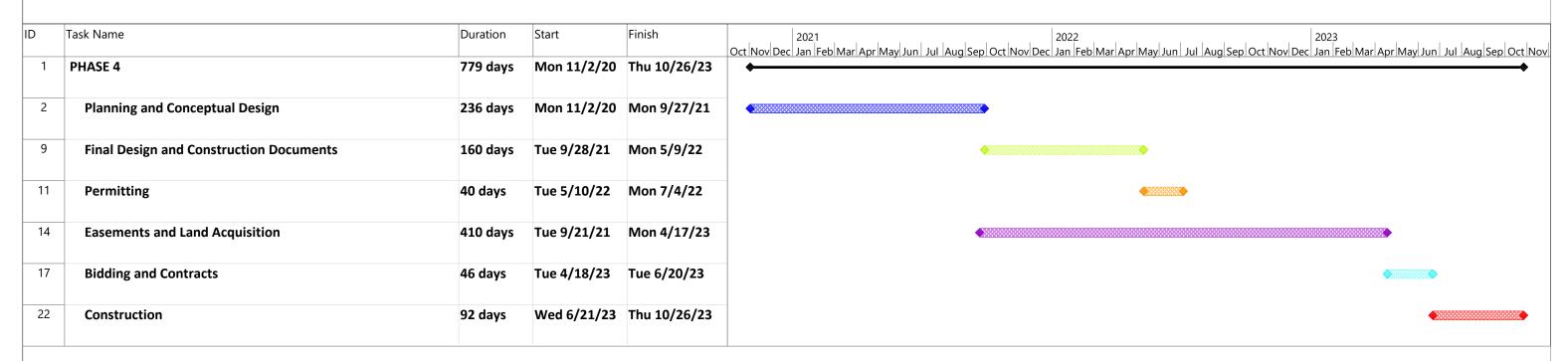


Project: 00072
Date: Mon 2/20/23

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents
Permitting
Easements and Land Acquisitions
Bidding and Contracts

Page 1

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4 PROPOSED SCHEDULE



Project: 00073
Date: Tue 2/21/23

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisitions
Bidding and Contracts

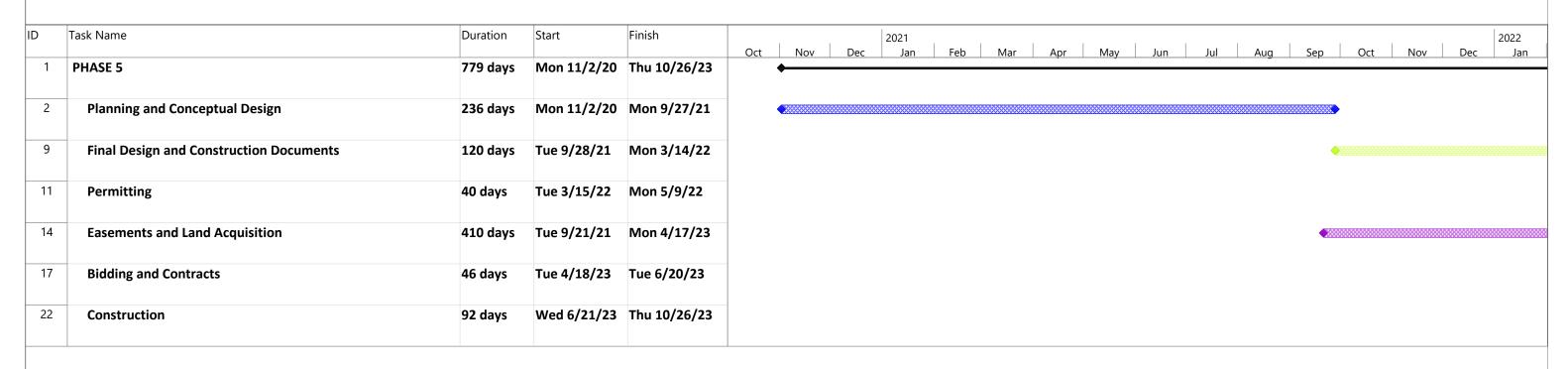
Permitting

Construction

Construction

Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 5 PROPOSED SCHEDULE



Project: 00074
Date: Tue 2/21/23

Milestone
Critical Task
Task

Planing and Conceptual Design
Final Design and Construction Documents

Bidding and Contracts

Construction

Description

Permitting

Construction

Construction

Construction

Construction

Construction

Construction

Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 6 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Oct	Nov De	2021 ec Jan	Feb	Mar	Apr	Mav Jur	Jul	Aua	Sep	Oct	Nov D	202 ec Ja
1	PHASE 6	779 days	Mon 11/2/20	Thu 10/26/23		•	*							11119				
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21			***************************************									•		
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22											•	***************************************		
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22														
14	Easements and Land Acquisition	410 days	Tue 9/21/21	Mon 4/17/23														
17	Bidding and Contracts	46 days	Tue 4/18/23	Tue 6/20/23														
22	Construction	92 days	Wed 6/21/23	Thu 10/26/23														

Project: 00075
Date: Tue 2/21/23

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents
Permitting
Easements and Land Acquisitions
Bidding and Contracts

Page 1

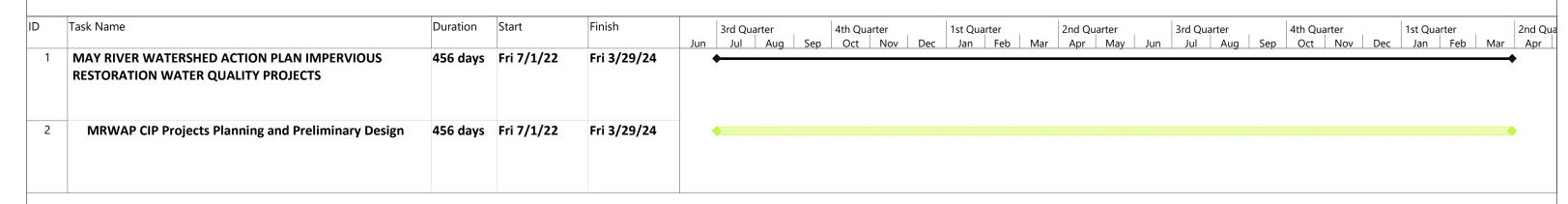
LAW ENFORCEMENT CENTER EXPANSION PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	arte 4th Quarte 1st Quarte 2nd Quart 3rd Quarte 4th Quarte 1st Quarte 2nd Quart 3rd Quarte 4th Quarte 4th Quarte 5rd Quarte 2nd Quarte 4th Quarte 5rd Quar
1	LEC Expansion	1050 days	Wed 11/18/20	Tue 11/26/24	◆
2	Parking and Site Improvements	161 days	Wed 11/18/20	Wed 6/30/21	
17	Reflection Plaza	219 days	Mon 3/14/22	Thu 1/12/23	
26	Challenge Course	98 days	Wed 10/12/22	Fri 2/24/23	
33	Facility Improvements	97 days	Sun 7/14/24	Tue 11/26/24	

Project: 00077 Milestone **Project Duration** Permitting Construction Date: Tue 2/21/23 Critical Task Planning and Conceptual Design Easements and Land Acquisition Final Design and Construction Documents Bidding and Contracts Task Page 1

MAY RIVER ROAD POCKET PARK PROPOSED SCHEDULE Task Name Duration Start Finish | July | August | September | October | November | December | January | February | March | April | May | June | July | August | September | October | November | October | O Thu 7/1/21 Tue 11/8/22 1 MAY RIVER ROAD POCKET PARK 354 days Planning and Conceptual Design Thu 7/1/21 Thu 9/2/21 46 days **Final Planning and Construction Documents** 140 days Fri 9/3/21 Thu 3/17/22 94 days Mon 11/29/21 Thu 4/7/22 Permitting **Bidding and Contract** 48 days Fri 3/18/22 Tue 5/24/22 Construction 106 days Tue 6/14/22 Tue 11/8/22 Project: 00080 Date: Wed 11/23/22 Planning and Conceptual Design ◆ Easements and Land Acquisitions → Final Design and Construction Documents ◆ Bidding and Contract ◆ Construction Critical Task Project Duration Page 1

MAY RIVER WATERSHED ACTION PLAN IMPERVIOUS WATER QUALITY PROJECTS PROPOSED SCHEDULE



Project: 00105
Date: Tue 2/21/23

Milestone

Critical Task

Task

Milestone

Project Duration

Permitting

Construction

Permitting

Bidding and Contract

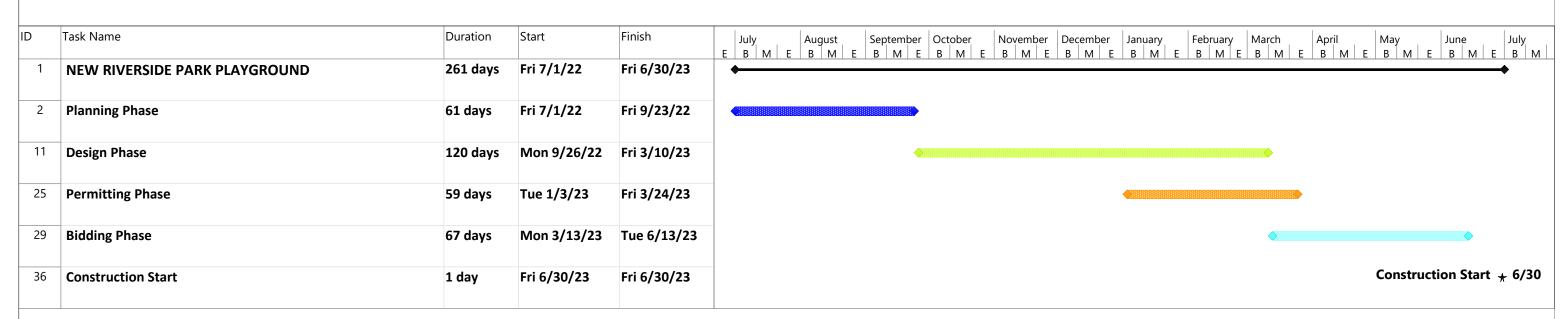
Easements and Land Acquisitions

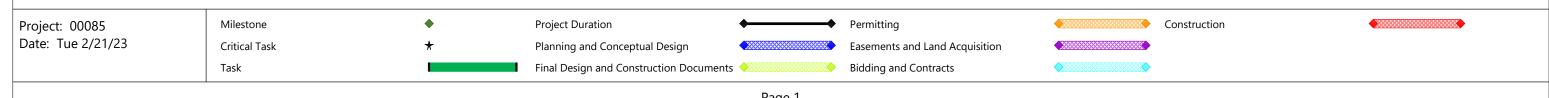
Easements and Land Acquisitions

			NEW RIVER LINEAR TRAIL
			PROPOSED SCHEDULE
Task Name NEW RIVER LINEAR TRAIL Planning	Mon 7/5/21	Finish Tue 11/14/23 Mon 12/20/21	July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May J
4 Final Planning and Construction Documents	Fri 7/1/22	Fri 2/10/23	
7 Permitting	Thu 2/2/23	Thu 7/20/23	
Bidding and Contracts		Thu 10/5/23	
9 Submit Contract for TC Approval		Tue 11/14/23	
2			
3			
4			
5			
6			
oject 00092 Project Duration e 2/21/23 Task	Critical Task Milestone		★ Planning and Conceptual Design ★ Permitting Bidding and Contracts ♦ ♦ Final Design and Construction Documents Easements and Land Acquisition ★ Construction ★

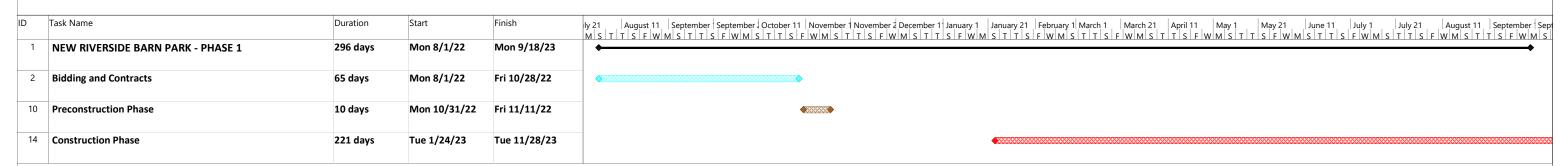
Page 1

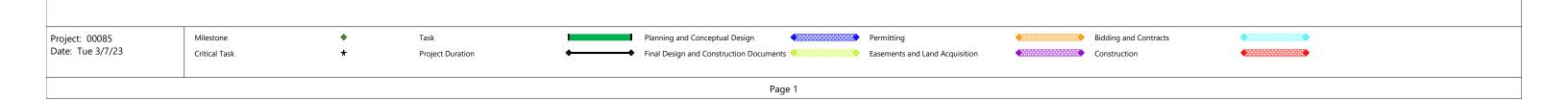
NEW RIVERSIDE PARK - PLAYGROUND AREA PROPOSED SCHEDULE



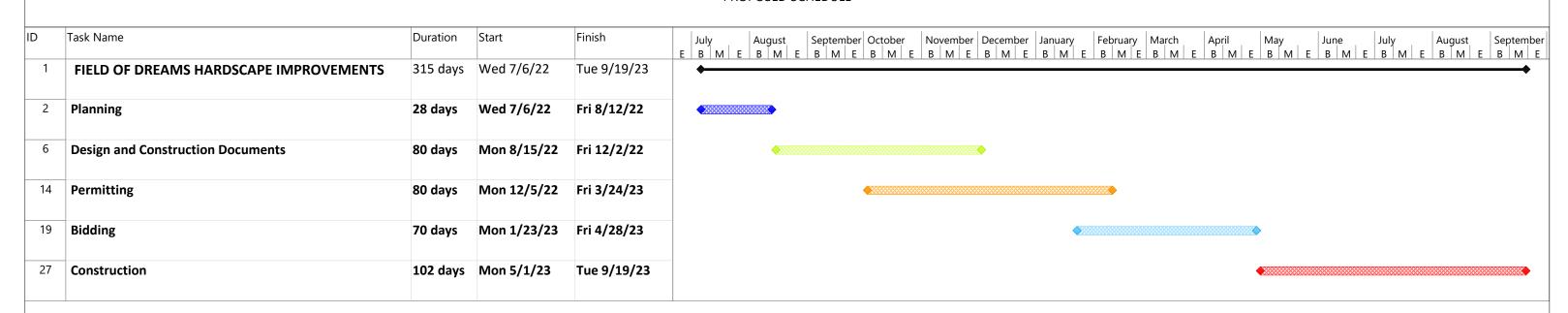


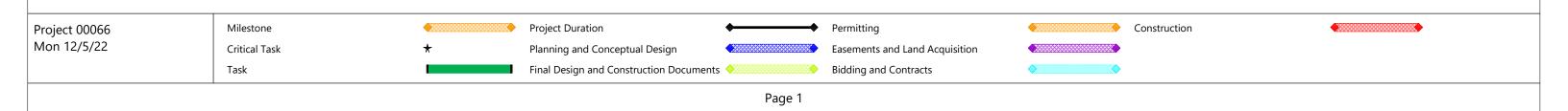
NEW RIVERSIDE BARN PARK - PHASE 1 PROPOSED SCHEDULE





OSCAR FRAZIER PARK PROPOSED SCHEDULE

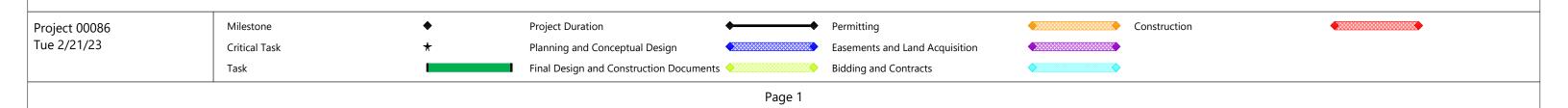




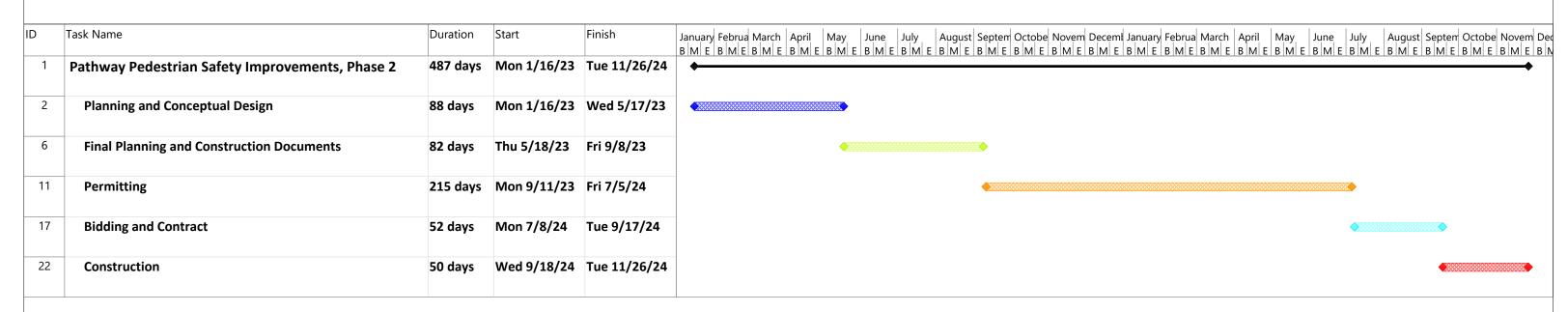
0 000	Name O059 Oyster Factory Parking Improvements		Start Mon 8/15/22	Finish Mon 5/8/23	ust September October November December January February March April May 8/7 8/14 8/21 8/28 9/4 9/11 9/18 9/25 10/2 10/9 10/16 10/2 10/3 11/6 11/13 1/2 11/2 12/14 12/14 12/14 12/14 12/15 1/2 1/29 2/5 2/12 2/19 2/26 3/5 3/12 3/19 3/26 4/2 4/9 4/16 4/23 4/30
		191 days	Mon 8/15/22	Mon 5/8/23	
1 0					
	Oyster Factory Park	191 days	Mon 8/15/22	Mon 5/8/23	•
2	Pre Construction	91 days	Mon 8/15/22	Mon 12/19/22	
6	Construction	90 days	Tue 1/3/23	Mon 5/8/23	

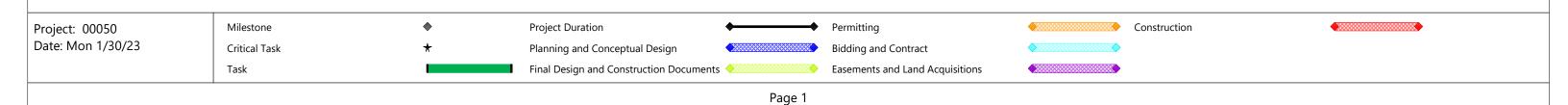
Project: 00059
Date: Wed 11/23/22
Critical Task
Planning and Conceptual Design
Final Design and Construction Documents
Bidding and Contracts
Construction

PARK IMPROVEMENTS PROPOSED SCHEDULE Task Name Start Finish August 2022 September 202 October 2022 November 202 December 2022 January 2023 February 2023 March 2023 April 2023 May 2023 June 2023 E B M E B Duration July 2 **PARK IMPROVEMENTS - FY 23** 240 days Mon 8/1/22 Fri 6/30/23 **2** Final Planning and Construction Documents 122 days Mon 8/1/22 Tue 1/17/23 10 **Bidding and Contracts** 55 days Mon 1/23/23 Fri 4/7/23 16 **Construction** 60 days Mon 4/10/23 Fri 6/30/23

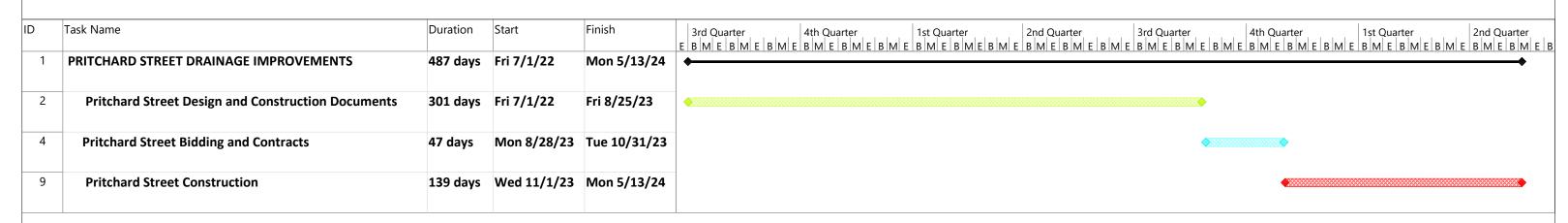


PATHWAY PEDESTRIAN SAFETY IMPROVEMENTS, PHASE 2 PROPOSED SCHEDULE





PRITCHARD STREET DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE



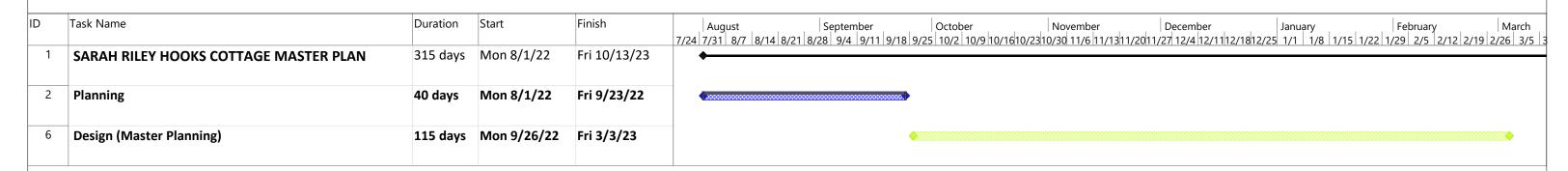
Project: 00106
Date: Tue 2/21/23

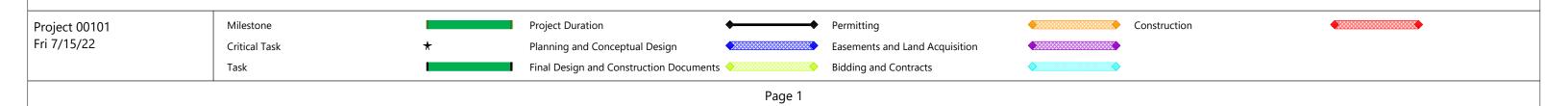
Milestone
Critical Task
Task
Planning and Conceptual Design
Final Design and Construction Documents
Permitting
Construction

Bidding and Contract
Easements and Land Acquisitions

Page 1

SARAH RILEY HOOKS MASTER PLANNING FY 23 PROPOSED SCHEDULE





SQUIRE POPE CARRIAGE HOUSE PROPOSED SCHEDULE Task Name Duration Finish 3rd Quarter 4th Quarter 1st Quarter 3rd Quarter 4th Quarter th Quarter 1st Quarter 2nd Quarter 2nd Quarter M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M **SQUIRE POPE CARRIAGE HOUSE** 554 days Tue 11/1/22 Fri 12/13/24 2 **Permitting Phase** 60 days Tue 11/1/22 Mon 1/23/23 4 494 days Tue 1/24/23 Fri 12/13/24 Construction

Project: 00067
Date: Mon 1/30/23

Milestone
Critical Task
Task

Milestone
Critical Task
Final Design and Construction Documents
Final Design and Final Design and Construction Documents
Final Design and F

WHARF STREET LIGHTING PROPOSED SCHEDULE ID Finish Task Name Duration 2023 Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep WHARF STREET LIGHTING Mon 7/5/21 Fri 1/12/24 660 days **Planning and Conceptual Design** 2 352 days Mon 7/5/21 Tue 11/8/22 Wed 11/9/22 Tue 3/14/23 12 Permitting 90 days 14 **Easements and Land Acquisition 160 days** Wed 11/9/22 Tue 6/20/23 17 Construction 135 days Mon 7/10/23 Fri 1/12/24

Project: 00068 Milestone **Project Duration** Permitting Construction Date: Tue 2/28/23 Critical Task Planning and Conceptual Design Easements and Land Acquisition Bidding and Contract Task Final Design and Construction Documents Page 1