

TOWN COUNCIL

STAFF REPORT

Engineering Department



MEETING DATE:	January 12, 2021
SUBJECT:	Engineering Department Monthly Report
PROJECT MANAGER:	Bryan McIlwee, Director of Engineering

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Construction documents and permitting are underway.
- Easement Acquisitions are complete.
- **Next Steps**
 - Obtain approval from LOCOG to bid project ASAP.
 - Obtain Town Council approval of Construction Contract in February 2021.

2. Buck Island-Simmonsville Neighborhood Sidewalks and Lighting

- Phase 5 Kitty Road to 301 Buck Island Road, construction is complete. Design of street lighting is underway.
- Phase 6A along Simmonsville Road from Grayco northward to Sugaree Drive is under design and permit review.
- Phase 6B along Simmonsville Road from Sugaree Drive northward to the existing New Mustang Road sidewalks is under design.
- **Next Steps**
 - Phase 5 from Kitty Road to lot 310 Buck Island Road inspection and permit closeout.
 - Submit Phase 5 street lighting for an SCDOT encroachment permit. Install street lighting in the second quarter of 2021.
 - Phase 6 design and construction of the remaining Simmonsville Road sidewalks, to be completed in FY 2021-2022.

3. Bridge Street Streetscape

- Construction documents and permitting are underway for Phase 1 streetscape, Burnt Church Road to Calhoun Street. 70% construction drawings are complete and Staff provided plan comments to Cranston Engineering.

- SCDHEC 319 grant application was awarded for \$179,700 for drainage and water quality improvements.
 - **Next Steps**
 - Complete engineering design.
 - Execute contract with Cranston Engineering to complete design modifications and reporting related to the 319 Grant.
 - Prepare easement plats, appraisals, obtain easements and issue bid documents in FY 2021.
 - Construction to start in FY 2022.
- 4. Boundary Street Streetscape**
- Obtained engineering services proposal from Thomas and Hutton.
 - **Next Steps**
 - Obtain Town Council approval of engineering services contract at the 2/9/2021 Town Council meeting.
- 5. New Riverside Linear Trail**
- **Next Steps**
 - Begin planning and prepare a Conceptual Master Plan in FY 2022 pending budget approval.
 - Research grant opportunities to fund planning and construction of future trail improvements.

SEWER & WATER

- 1. Buck Island-Simmons ville Sewer (Phases 5A-5E)**
- Construction and home connections are complete on Phase 5E Poseys Court.
 - Construction is underway on Phase 5A-D.
 - **Next Steps**
 - Complete construction on Phase 5A-D by 7/1/21 contingent upon no extensive weather delays or unforeseen utility conflicts.
 - Start house connections after the main line is approved by DHEC.
- 2. Historic District Sewer Extension Phase 1 - Pritchard Street**
- Construction has started.
 - **Next Steps**
 - Start house connections after the main line is approved by DHEC.
- 3. Historic District Sewer Extension Phase 2 - Bridge Street**
- Received SCDHEC permit to construct.
 - Continue negotiations with property owners for right of entry agreements.

- **Next Steps**
 - Obtain road ownership from SCDOT.
 - Advertise for bids.
- 4. **Historic District Sewer Extension Phase 3 – Colcock Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.
- 5. **Historic District Sewer Extension Phase 4 – Lawrence Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.
- 6. **Historic District Sewer Extension Phase 5 – Green Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.
- 7. **Historic District Sewer Extension Phase 6 – Water Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.
- 8. **Jason-Able Neighborhood Sanitary Sewer**
 - Construction is complete on the sewer main to serve the additional lots fronting the May River Road.
 - **Next Steps**
 - BJWSA to finalize project closeout.

HISTORIC DISTRICT IMPROVEMENTS

1. **Boundary Street Lighting**
 - Phase 2 photometric plans complete.
 - Received Phase 2 encroachment permit from SCDOT.
 - Lighting agreements approved by Town Council in May.
 - Agreement has been executed by both parties.
 - Dominion Energy has reported delays in manufacturing and shipping of fixtures and poles.
 - SCDOT and Dominion indicated poles must be installed on Private Property due to Sewer Force Main along Boundary Street
 - **Next Steps**
 - Obtain easements as needed for Phase 2 street lighting.
 - Begin installation of street lighting in February 2021.

2. Historic District Enhancements

- Watershed Management Staff is evaluating preliminary plans to prepare drainage solutions at AME Church.
- Traffic calming guidelines and plan are being negotiated with engineering consultant.
- **Next Steps**
 - ADA ramps and crosswalks are being mapped in Cartegraph by GIS/IT.
 - Continue planning of crosswalks and ADA improvements.
 - Complete Traffic Calming Assessment and Plan.

3. Calhoun Street Streetscape

- Conceptual Master Planning is complete and reviewed at the July Quarterly Workshop.
- Obtained RFQu submittals for Engineering services on 10/8/2020. Selected Thomas and Hutton Engineering to provide engineering design.
- **Next Steps**
 - Submit engineering consultant contract to Town Council for approval at the January 2021 meeting.
 - Continue to follow up with Staff and Dominion Energy for planning of underground power.

4. Squire Pope Carriage House Preservation

- Construction Documents are 95% complete.
- **Next Steps**
 - Meadors Architectural to complete Construction Documents.
 - Staff to review and approve completed Construction Documents.
 - Awaiting budget approval for future construction.
 - Coordinate design of “Coming Soon” sign.

PARK DEVELOPMENT**1. Oyster Factory Park**

- Updated conceptual master plan is underway based on Town Council input provided at the July Quarterly Workshop.
- **Next Steps**
 - Obtain ACOE and DHEC Permit application for installation of salvaged dock components from Calhoun Street.
 - Complete draft Conceptual Master Plan and cost estimate from Witmer Jones Keefer.
 - Submit Conceptual Master Plan updated to Town council at the January 2021 Quarterly Workshop.
 - Begin final design of next phase of improvements per Town Council direction provided at the Workshop.

2. 68 Boundary Street Park Renovations

- Construction and maintenance contracts complete.
- **Next Steps**
 - Fabricate permanent Martin Family sign prior to park dedication.

3. Calhoun Street Dock and Public Riverfront Access Improvements

- Dock construction is complete.
- **Next Steps**
 - Complete installation of Dock Rules signs.

4. Wright Family Park

- Bulkhead, boardwalk, restroom building, perimeter sidewalks, landscaping and parking area are complete.
- Site signage, and furniture are 99% complete.
- **Next Steps**
 - Coordinate Ribbon Cutting Ceremony as pandemic allows.
 - Additional benches are on reorder and will be installed upon receipt.
 - Complete Change Order for additional lighting in January 2021

5. Oscar Frazier Park

- **Next Step**
 - Complete construction contract for sidewalk construction.
 - Continue planning of future improvements in FY 2022.

6. New Riverside Barn/Park

- Submitted grant application to LWCF for \$300,000.00 funding of the initial phase of the project. Application is under review by NPS and Staff expects to hear response in the Spring of 2021.
- Archeological Report complete as needed for Grant eligibility.
- Obtained Town Council approval of the Conceptual Master Plan at the December 2020 Council meeting.
- Obtained Proposal from Thomas and Hutton for Phase 1 Engineering design.
- **Next Steps**
 - Hart Howerton to complete Design Development drawings for Phase 1 site development.
 - Complete construction drawings, cost estimating and permitting of Phase 1 development by July 2021.
 - Phase 1 bidding and construction anticipated to begin in FY 2022.

TOWN FACILITIES AND MISCELLANEOUS PLANNING**1. Buckwalter Place Multi-County Commerce Park**

- Buckwalter Place Park and Veterans Memorial are complete. Additional work was approved to modify irrigation system conversion from irrigation pond to BJWSA system.

- Executed contracts for Buckwalter Park restroom design with Thomas and Hutton and Pearce Scott Architects.
- Site planning for future development parcel underway with Cranston Engineering.
- Prepared estimate of probable construction cost and appraisal for future development site.
- **Next Steps**
 - Complete irrigation conversion at Park by December.
 - Review progress plans for restroom building at Buckwalter Park.
 - Continue site planning for future development parcel.

2. Town of Bluffton Housing Project

- Surveying and geotechnical services complete for 1095 May River Road and 115 Bluffton Road sites.
- **Next Steps**
 - Planning and design to begin in FY 2021 as directed by Joint Venture Agreement.
 - Assist with the preparation of a comprehensive cost estimate for planning, design and construction for the various housing projects.

3. Law Enforcement Center Facility Improvements

- Executed contracts for construction with CBG Siteworks Construction.
- Interior paint of Substation complete.
- **Next Steps**
 - Continue construction of LEC service yard and parking improvements by the July 2021
 - Information Technology department coordinating upgrades to building security systems.

4. Ghost Roads

- Surveying and easement exhibits are complete.
- Pritchard Street Quit Claim Deed exhibits are complete. The Town Attorney is working on finalizing the document with Beaufort County.
- Staff is meeting with property owners to raise awareness of the acquisition efforts and communicate next steps.
- **Next Steps**
 - Continue meeting with property owners and obtaining quit claim deeds.

5. Community Safety Cameras

- Cameras have been installed at Bluffton Road Public Parking Lot, Veterans Park, Wright Family Park, Calhoun Street Dock .
- and 14 older cameras in the network have been replaced.
- **Next Steps**
 - Continue with camera replacements and upgrades as necessary.

6. Public Works Facility Improvements

- Finalize the plans for expanding of Public Works yard.
- Install new plumbing/ electric for the washer and dryer.
- **Next Steps**
 - Begin permitting and bid for the expansion of the yard FY21.
 - Bid the installation of the plumbing / electric FY21.

7. Rotary Community Center Facility Improvements

- Replace the hardwood floor in the main area.
- **Next Steps**
 - Request bids for the replacement of the new floor.

8. Watershed Management Facility Improvements

- Remove the carpet and install new flooring in the rear office space.
- **Next Steps**
 - Request quotes on completing the new flooring in the office.

DIVISION/STAFF UPDATES**Project Management**

Thirty-five (35) CIP projects are currently in progress. Don Ryan Center, Veteran Memorial, Buckwalter Park and BIS Phase 5 sidewalks, Wright Family Park and the Calhoun Street Dock have recently been completed. CIP projects including BIS Phase 5E sewer, and Pritchard Street sewer are currently under construction and nearing completion. The LEC Parking Expansion, BIS Phase 5A-D Sewer started construction in December 2020, and the Boundary Street Lighting projects is expected to start construction in February 2021. The remaining CIP projects are in the design phase and several are planned for construction in FY 2022.

Watershed Management**1. Southern Lowcountry Regional Board (SoLoCo)****a. Regional Southern Lowcountry Post Construction Stormwater Ordinance and Design Manual**

- Via concurrence of the Mayor and direction by the Town Manager, staff has participated in the SoLoCo Technical Working Group to develop a regional stormwater model ordinance and design manual and investigate the viability of a regional stormwater authority.
- Final documents have been delivered and staff is conducting internal review for consistency with the Unified Development Ordinance prior to Legal Review.
- 8/27/20 Unanimous recommendation from May River Watershed Action Plan Advisory Committee for adoption.
- 10/28/20 Unanimous recommendation from Planning Commission for adoption.
- 12/8/20 Town Council – 1st reading with unanimous approval.

- **Next Steps**

- 2/9/21 Town Council – Public Hearing and 2nd reading.
- Anticipated implementation date of either 2/15/21 or 3/1/21.

2. Sea Level Rise Task Force

- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff is attending the Sea Level Rise Task Force meetings to discuss a possible No Fill Ordinance and county-wide sea level rise adaptation strategies.
- Meetings continue to discuss projected impacts of sea level rise on the region with a focus on ways that local government can respond through policies, ordinances and projects to mitigate the potential impacts of sea level rise.
- Internal staff reviews of draft documents complete and feedback provided to Task Force.
- Task Force met 12/15/20 and 12/18/20 to prioritize recommendations for final document.
- **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.

3. Joint Councils Meeting for Watershed Management Initiatives

- BJWSA developed their CIP list for FY 2020 sewer projects which does not include any projects in the County's jurisdiction in the May River Headwaters without cost-sharing.
- Following the Joint Councils Meeting with BJWSA, held on 2/25/20, staff from Beaufort County and Town of Bluffton met to discuss sewer extension scope and strategy on 2/27/20.
- Staff from the Town, County, and BJWSA met via Zoom 3/27/20 to confirm project scope, cost, and potential project manager. the last project cost estimate to extend, connect, and abandon septic in the Stoney Creek project area is \$4.7 million (B. Chemsak email 7/22/19) but they anticipate those numbers increasing to \$5.5 million. The proposal is 1/3 cost-share, so the Town's portion would be approximately \$1.83 million. Beaufort County has not formally agreed or committed any funding.
- Neither BJWSA nor Beaufort County have committed funds in FY 2021 to begin sewer extension.
- Town Manager, Director of Engineering and staff met with BJWSA General Manager, Engineer and staff on 6/5/20 to discuss how to move the project forward.
- Staff to work with BJWSA staff to prepare Project Information Sheet to include scope, cost, cost-share, exhibits, and timeline for project implementation.
- **Next Steps**
 - The Town submitted a response on 12/18/21 to BJWSA's "call for projects" request that prioritizes May River Watershed sewer projects.

- Staff is drafting a Memorandum of Agreement with Beaufort County and BJWSA to agree on project scope and cost-sharing.
4. **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**
 5. **May River Watershed Action Plan Implementation Summary - Attachment 2**
 6. **Municipal Separate Storm Sewer System (MS4) Program Update**
 - Staff is currently updating the Town’s MS4 Stormwater Management Plan and supporting documentation. SCDHEC is currently in the process of developing a revised National Pollutant Discharge and Elimination (NPDES) Permit for Small MS4s and will re-issue to permittees, including the Town, in the future.
 7. **MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
 - Staff participated in the Beaufort County Stormwater Utility Board meeting on 12/9/20.
 - The May River Watershed Action Plan Advisory Committee met 12/03/20.**Attachment 3**
 8. **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**
 - Town staff coordinates with the SC Department of Health and Environmental Control (SCDHEC) to pull MST samples concurrently with the state’s routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, 19-24, and 19-16. SCDHEC will conduct sampling on 12/08/20. Staff will notify Council and Senior Staff of any pertinent findings from this sampling event via email.
 - Illicit Discharge Investigations – **Attachment 4e**
 9. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
 10. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
 11. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Jones, Lewis and Moreno successfully completed the training and exam for Clemson Extension’s Post-construction Best Management Practice Inspector re-certification.
 12. **Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
 13. **Citizen Request for Watershed Management Services & Activities – Attachment 8**

Public Works

1. MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)

- 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.
- Ongoing mowing of the New River side trail and field at New River barn.
- Beautification Program –Landscape Maintenance - ongoing routine.

2. Facilities

- Facilities and Parks Maintenance - ongoing routine.

3. Public Works Activities Report - Attachment 9

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 – May River Watershed Action Plan Advisory Committee Cancellation 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. Public Works Activities Report

* Attachment noted above includes the latest updates in bold and italic font.

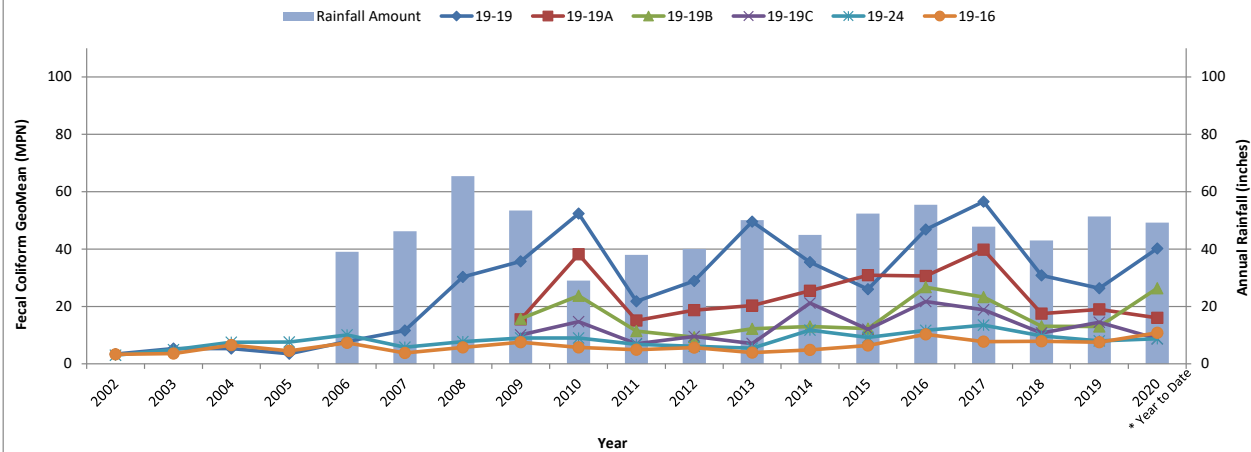
	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
December	1600.0	79.0	170.0	17.0	920.0	49.0	33.0	22.0	540.0	33.0	140.0	17.0	240.0	46.0	33.0	4.5	220.0	23.0	13.0	4.0	49.0	21.0	110.0	11.0
November	49.0	49.0	17.0	70.0	33.0	13.0	6.8	31.0	7.8	23.0	7.8	17.0	31.0	17.0	11.0	13.0	2.0	17.0	4.5	13.0	2.0	7.8	2.0	4.5
October	22.0	79.0	7.8	49.0	49.0	23.0	4.5	79.0	33.0	7.8	2.0	31.0	23.0	7.8	4.5	21.0	6.8	7.8	1.8	33.0	2.0	2.0	2.0	79.0
September	17.0	49.0	79.0	110.0	7.8	23.0	33.0	49.0	11.0	13.0	6.8	49.0	4.5	17.0	17.0	33.0	2.0	17.0	4.5	33.0	1.8	17.0	1.8	33.0
August	79.0	70.0	70.0	49.0	70.0	23.0	49.0	49.0	21.0	13.0	33.0	23.0	33.0	4.5	22.0	23.0	33.0	7.8	7.8	17.0	33.0	17.0	17.0	22.0
July	350.0	23.0	4.5	33.0	110.0	33.0	13.0	13.0	130.0	11.0	7.8	23.0	49.0	7.8	17.0	7.8	49.0	13.0	22.0	7.8	22.0	4.5	13.0	17.0
June	23.0	11.0	33.0	NS	49.0	23.0	49.0	NS	13.0	23.0	49.0	NS	17.0	7.8	46.0	NS	7.8	4.5	13.0	NS	4.5	1.8	4.5	NS
May	17.0	17.0	7.8	70.0	23.0	33.0	9.2	49.0	7.8	17.0	7.8	23.0	2.0	13.0	2.0	22.0	23.0	23.0	6.8	6.8	4.5	13.0	4.5	4.5
April	7.8	33.0	23.0	33.0	23.0	13.0	13.0	33.0	4.5	17.0	7.8	13.0	7.8	17.0	6.8	6.8	13.0	49.0	23.0	13.0	4.5	17.0	6.8	13.0
March	350.0	22.0	23.0	170.0	11.0	21.0	23.0	49.0	33.0	4.5	6.8	130.0	13.0	11.0	13.0	49.0	13.0	7.8	7.8	70.0	33.0	9.3	4.5	33.0
February	13.0	17.0	64.0	17.0	7.8	7.8	33.0	7.8	13.0	17.0	23.0	21.0	9.3	17.0	31.0	4.5	4.5	2.0	6.8	4.5	1.8	7.8	13.0	6.8
January	95.0	13.0	23.0	95.0	79.0	2.0	23.0	33.0	31.0	4.5	13.0	33.0	49.0	2.0	33.0	17.0	27.0	1.8	7.8	17.0	33.0	4.5	23.0	17.0
Additional Samples																								
Additional Samples																								
Average Annual GeoMean	56.5	30.8	26.4	51.4	39.8	17.5	19.0	31.9	23.3	13.1	13.0	27.3	18.8	10.7	14.5	14.0	13.5	9.8	8.0	13.8	7.7	7.9	7.5	15.3
** Truncated GeoMetric Mean	44.0	42.0	35.0	34.0	36.0	29.0	23.0	21.0	20.0	20.0	16.0	16.0	16.0	15.0	14.0	12.0	10.0	10.0	10.0	10.0	7.0	8.0	7.0	9.0
** Truncated 90th Percentile	203.0	176.0	168.0	106.0	133.0	115.0	89.0	59.0	83.0	71.0	63.0	50.0	57.0	56.0	52.0	37.0	37.0	44.0	38.0	31.0	29.0	30.0	32.0	35.0

NS = No Sample

AS = Additional Samples

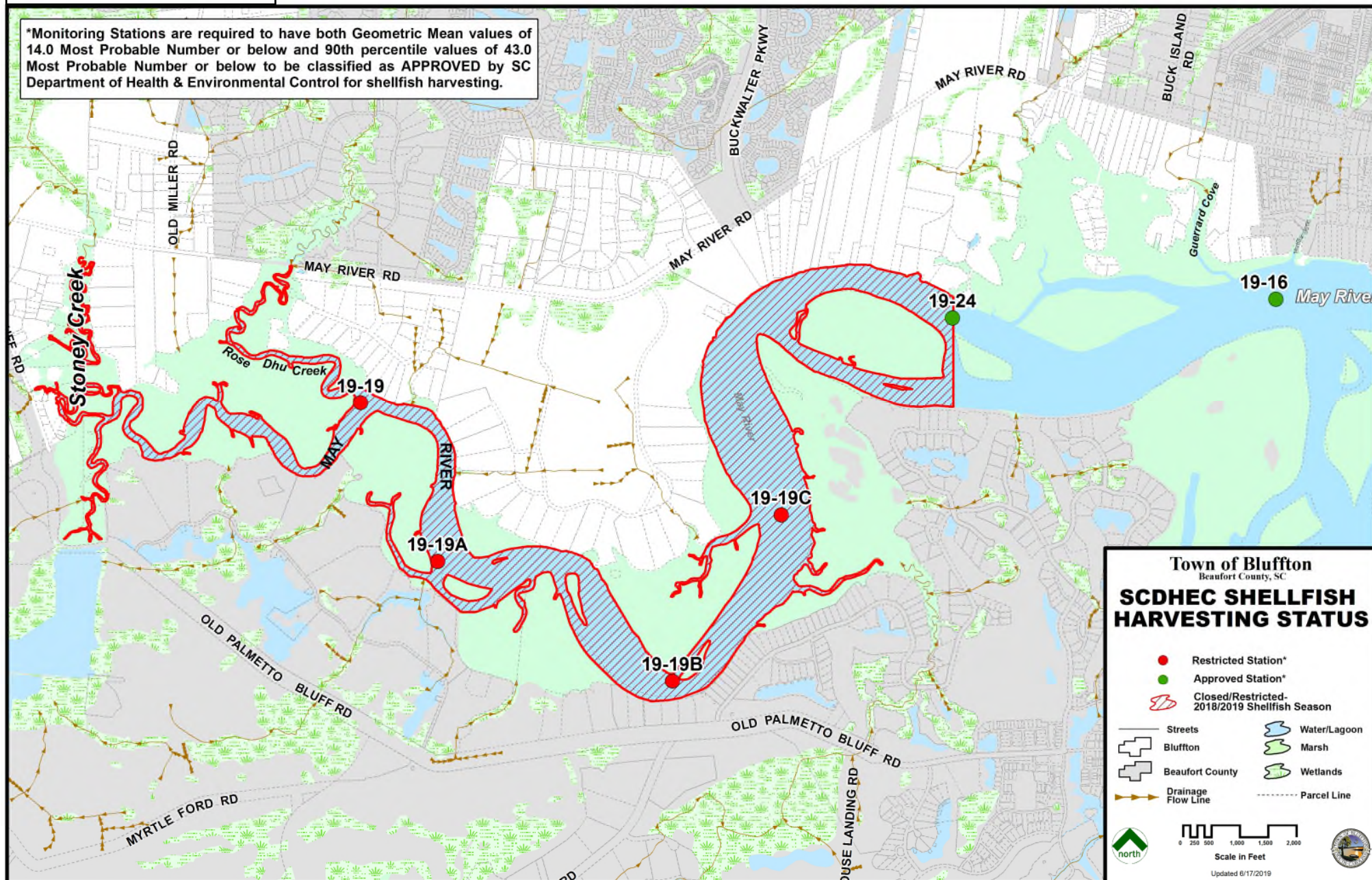
** Town staff calculations utilizing DHEC statistics

SC DHEC May River Headwaters Shellfish Stations Average Annual Fecal Coliform



May River Headwaters

*Monitoring Stations are required to have both Geometric Mean values of 14.0 Most Probable Number or below and 90th percentile values of 43.0 Most Probable Number or below to be classified as APPROVED by SC Department of Health & Environmental Control for shellfish harvesting.



ACTIVITY - FINANCIAL	STATUS
Funding Opportunities	Council unanimously adopted \$115 SWU Fee and NPDES-related Fees on 6/9/20.
ACTIVITY - POLICIES	STATUS
Sewer Connection & Extension Policy	<i>Completed 2017.</i>
Septic to Sewer Conversion Program	<i>Completed 2018.</i>
Sewer Connection Ordinance and Ordinance Amendment	<i>Completed 2015 and 2018, respectively.</i>
Southern Lowcountry Regional Stormwater Ordinance and Design Manual	<i>Current project updates are included in Engineering Consent Agenda under "Southern Lowcountry Regional Board (SoLoCo)."</i>
ACTIVITY - PROJECTS	STATUS
Sanitary Sewer Extension	Completed Buck Island/Simmons Road (BIS) Phases I, II, III, IV; Toy Fields; and Jason/Able. Six project phases of Historic District sewer extension are proposed in the 5-year Capital Improvement Program. <i>Current project updates are included in Engineering Consent Agenda under "Sewer & Water."</i>
May River 319 Grant Phase 1 - New Riverside Pond (Grant award of \$483,500 in 2009)	<i>Completed 2013.</i>
May River 319 Grant Phase 2 - Pine Ridge (Grant award of \$290,000 in 2011)	<i>Completed 2016.</i>
May River 319 Grant Phase 3 - Town Hall Parking Retrofit (Grant award of \$231,350 in 2016)	<i>Completed 2019.</i>
May River 319 Grant Phase 4 - Sanitary Sewer Connections (Grant award of \$365,558.36 in 2019)	Grant to construct 49 sewer lateral connections in Poseys Court, Little Aaron and Historic District Phases 1 and 2. <i>Current project updates are included in Engineering Consent Agenda under "Sewer & Water."</i>
May River 319 Grant Phase 5 - Bridge Street Streetscape (Grant award of \$179,900 in 2020)	Supports enhanced drainage and water quality improvements as part of the Bridge Street Streetscape project. <i>Contract signed on 12/4/20 and kick-off meeting held on 12/16/20.</i>
Stoney Creek Wetlands Restoration: Preliminary Design Phase	Project on hold following Council direction on 5/31/17.
May River Watershed Water Quality Model	Contract awarded to McCormick Taylor with final deliverables received 11/20. <i>As a major component of the May River Watershed Action Plan Update, anticipated Town Council Workshop on 1/19/21, WAPAC recommendation to adopt on 1/21/21, and Town Council adoption on 2/9/21.</i>
ACTIVITY - PROGRAMS	STATUS
Public Outreach/Participation/Involvement (MS4 Minimum Control Measures #1 & 2)	Outreach and involvement efforts continue through county-wide partnership with Carolina Clear as Lowcountry Stormwater Partners - Neighbors for Clean Water, through local cleanups, civic group presentations, and the May River Watershed Action Plan Advisory Committee. <i>Current updates are included in Engineering Consent</i>
Infrastructure Mapping/GIS (MS4 Minimum Control Measure #3)	Data points continue to be collected with new development to meet MS4 requirements & populate water quality model. <i>Current updates are included in Engineering Consent Agenda Attachment 4a.</i>
Water Quality Monitoring Program (MS4 Minimum Control Measure #3)	<ol style="list-style-type: none"> 1. SCDHEC Shellfish monitoring results and map 2. <i>E. coli</i> bacteria "hot spot" concentrations 3. Microbial Source Tracking of bacteria 4. Illicit Discharge investigation and monitoring 5. BMP efficacy monitoring 6. MS4 monitoring <i>Current updates are included in Engineering Consent Agenda Attachments 1. 1a. 4b - 4d.</i>

ACTIVITY - PROGRAMS continued	STATUS continued
Illicit Discharge Detection & Elimination (IDDE) Program (MS4 Minimum Control Measure #3)	Response to reported and observed non-stormwater discharges to the stormwater drainage system. <i>Current updates are included in Engineering Consent Agenda Attachment 4e.</i>
Construction Site Stormwater Runoff Control Program (MS4 Minimum Control Measure #4)	Sediment and erosion control inspections with escalating enforcement response. <i>Current updates are included in Engineering Consent Agenda Attachment 5.</i>
Stormwater Plan Review & Related Activity Program (MS4 Minimum Control Measure #5)	SCDHEC delegated plan review-related activities. <i>Current updates are included in Engineering Consent Agenda Attachment 6.</i>
Ditch Inspection/Maintenance Program (MS4 Minimum Control Measure #6)	Continued coordination with SCDOT, Beaufort County and Town Public Works to inspect and maintain ditches within the Town's jurisdiction. <i>Current updates are included in Engineering Consent Agenda Attachment 7.</i>
Neighborhood Assistance Program - Septic System Maintenance Program	On-going assistance offered to Town residents regardless of financial status through Neighborhood Assistance Program (NAP). <i>Current updates are provided in Growth Management Consent Agenda.</i>



**TOWN OF BLUFFTON
MAY RIVER WATERSHED ACTION PLAN ADVISORY COMMITTEE MEETING
ELECTRONIC MEETING**

Thursday, December 03, 2020 | 9 AM

AGENDA

This meeting can be viewed on the Town of Bluffton's Facebook page
(<https://www.facebook.com/TownBlufftonSC/>)

- I. CALL TO ORDER**
- II. NOTICE REGARDING POSTING OF MEETING PER SOUTH CAROLINA FREEDOM OF INFORMATION (FOIA) REQUIREMENTS**
- III. ROLL CALL AND CONFIRMATION OF QUORUM**
- IV. ADOPTION OF AGENDA**
- V. ADOPTION OF MINUTES – August 27, 2020**
- VI. PUBLIC COMMENTS**

Public Comments may be submitted electronically via the Town's website at (<https://www.townofbluffton.sc.gov/FormCenter/Town-15/Public-Comment-60>) or by emailing your comments to the Stormwater Technician at bnoonan@townofbluffton.com. Comments will be accepted up to close of business (5:30 PM) the day prior to the scheduled meeting start time. All comments will be read aloud for the record.

- VII. NEW BUSINESS**
 - 1. May River Watershed Action Plan Advisory Committee (WAPAC) Welcome New Committee Member**
 - 2. Welcome New Town of Bluffton Stormwater Project Manager**
 - 3. Current Status of the May River Watershed Action Plan Update**
 - 4. Proposed 2021 Meeting Dates and Time**

“FOIA Compliance – Public notification of this meeting has been published and posted in compliance with the Freedom of Information Act and the Town of Bluffton policies.”

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA compatible. Any person requiring further accommodation should contact the Town of Bluffton ADA Coordinator at 843.706.4500 or adacoordinator@townofbluffton.com as soon as possible but no later than 48 hours before the scheduled event.

*Please note that each member of the public may speak at public comment session and a form must be filled out and given to Town Staff. Public comment must not exceed three (3) minutes.

VIII. OLD BUSINESS

1. Water Quality Monitoring Program (standing item)
 - A. Monthly Sampling Update
 - B. Microbial Source Tracking (MST) Update
 - C. SCDHEC Shellfish Data Update

IX. DISCUSSION

X. ADJOURNMENT

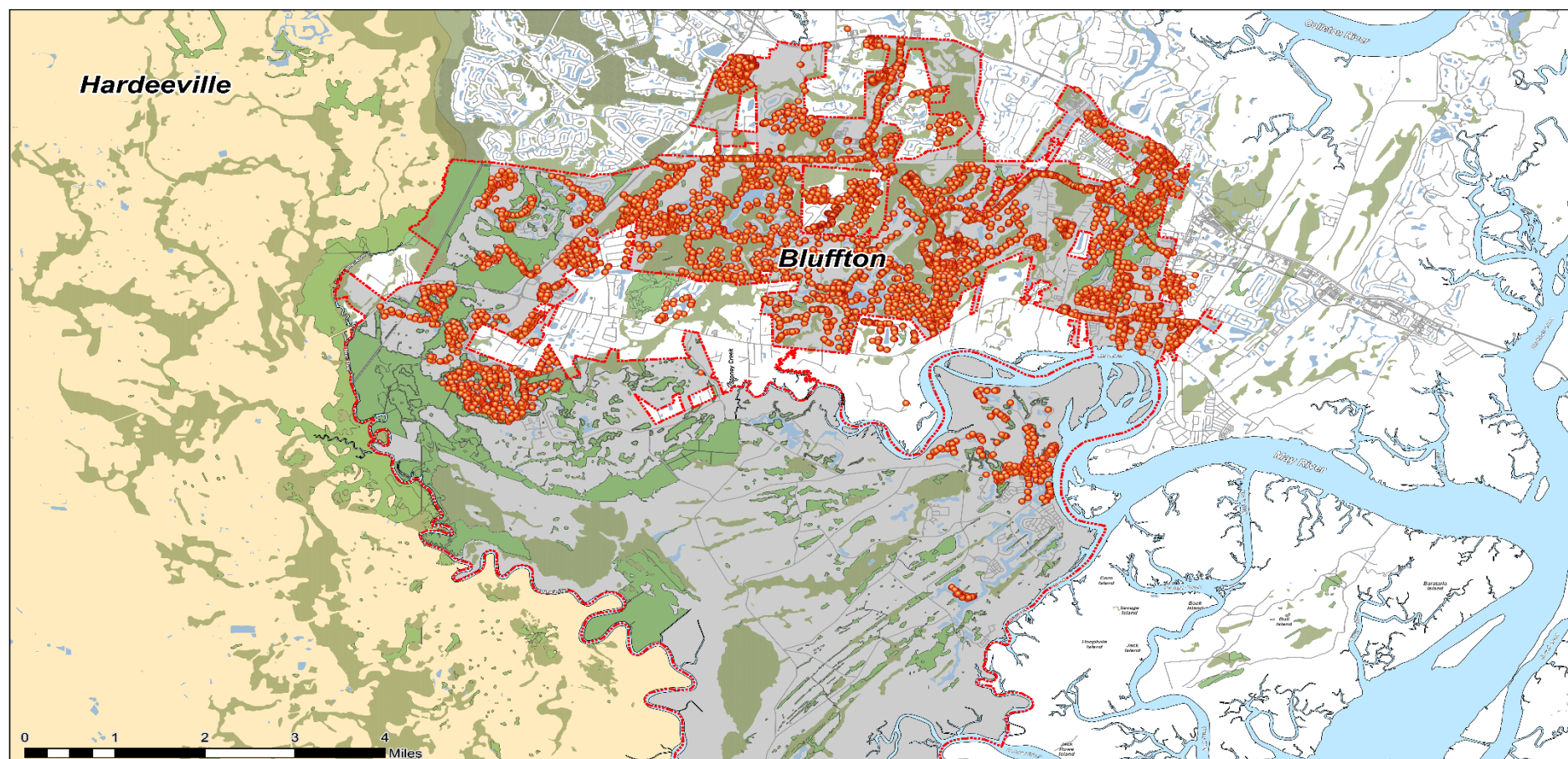
NEXT MEETING DATE: Proposed 9:00 AM, Thursday, January 21, 2021

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MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination): Stormwater Infrastructure Inventory

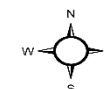


Town of Bluffton
Beaufort County, SC

- SW STRUCTURE
- ▬ TOWN OF BLUFFTON
- WETLAND
- ▬ SW PIPE
- BEAUFORT COUNTY
- WATER
- JASPER COUNTY
- ▬ ROADS

STORMWATER INFRASTRUCTURE

This map was prepared by the Town of Bluffton, Beaufort County, South Carolina, for the purpose of illustrating the location of stormwater infrastructure. It is not intended to be used for any other purpose. The Town of Bluffton, Beaufort County, South Carolina, is not responsible for any errors or omissions in this map. The Town of Bluffton, Beaufort County, South Carolina, is not responsible for any damages or losses resulting from the use of this map. The Town of Bluffton, Beaufort County, South Carolina, is not responsible for any claims or liabilities resulting from the use of this map. The Town of Bluffton, Beaufort County, South Carolina, is not responsible for any claims or liabilities resulting from the use of this map.

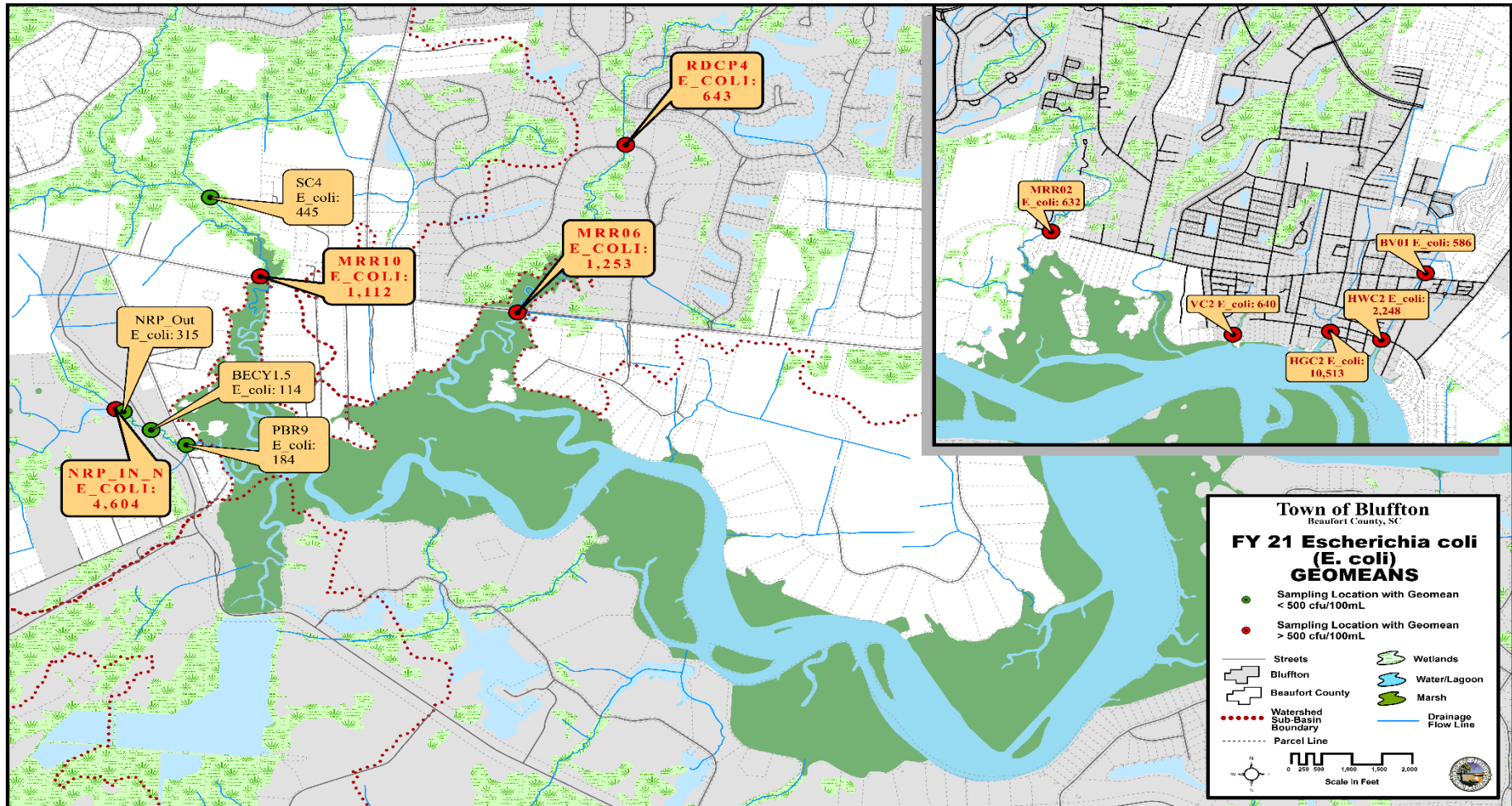


Updated Date: 12/21/2020

Stormwater Infrastructure Inventory Collection Status

FY 2021 YTD Collection Totals	754
FY 2020 Collection Totals	4,878
FY 2019 Collection Totals	2,925
FY 2018 Collection Totals	3,777

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



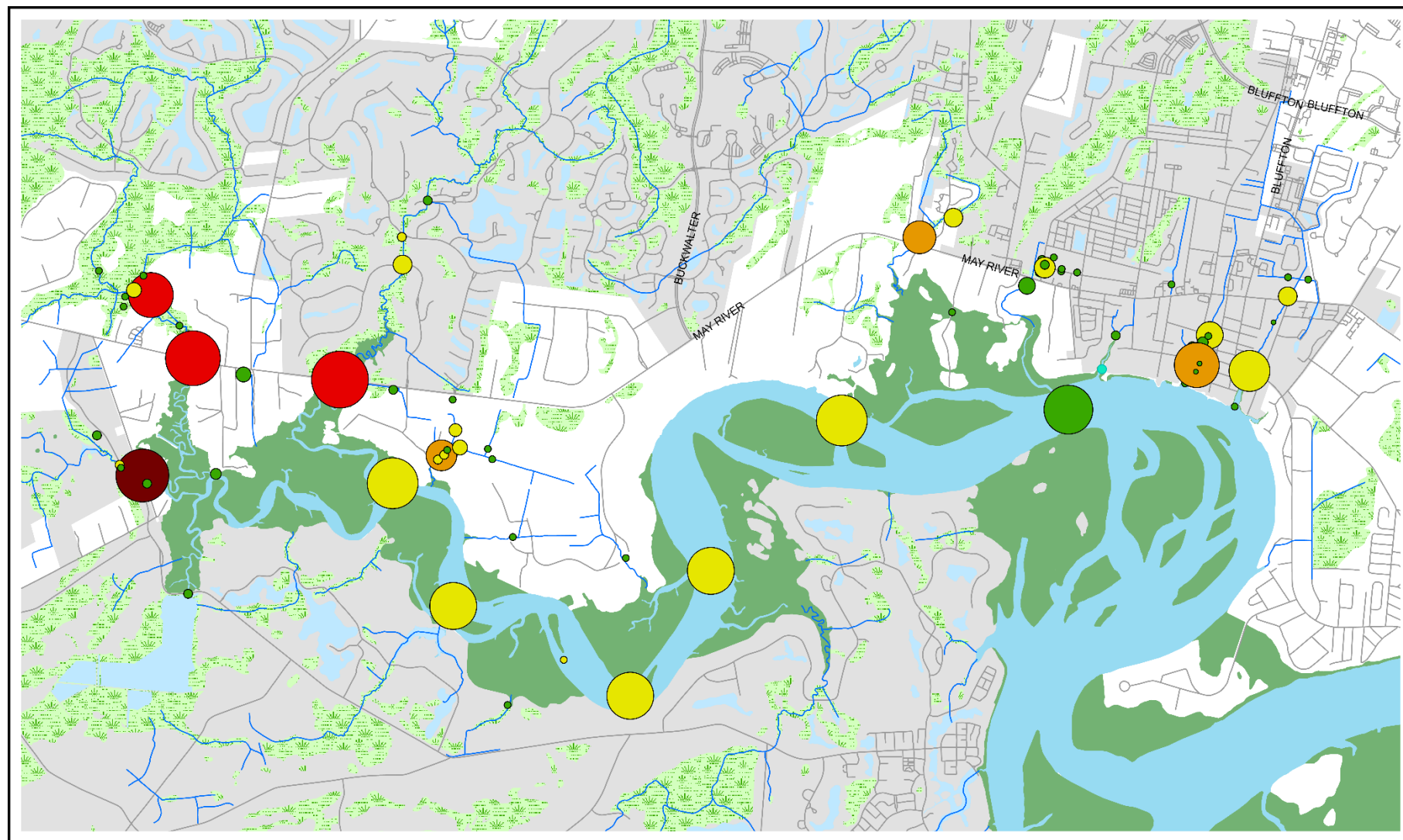
E. coli geomeans updated as of: 12/21/2020

	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2021 YTD Totals	211	48	54
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264
FY 2018 Totals	216	217	224

12/21/2020

- MST program began November 2016; MS4 Quarterly Sampling initiated 2/2017
- Totals include only samples submitted for laboratory analysis, and not *in situ* parameters.

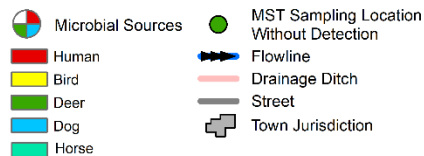
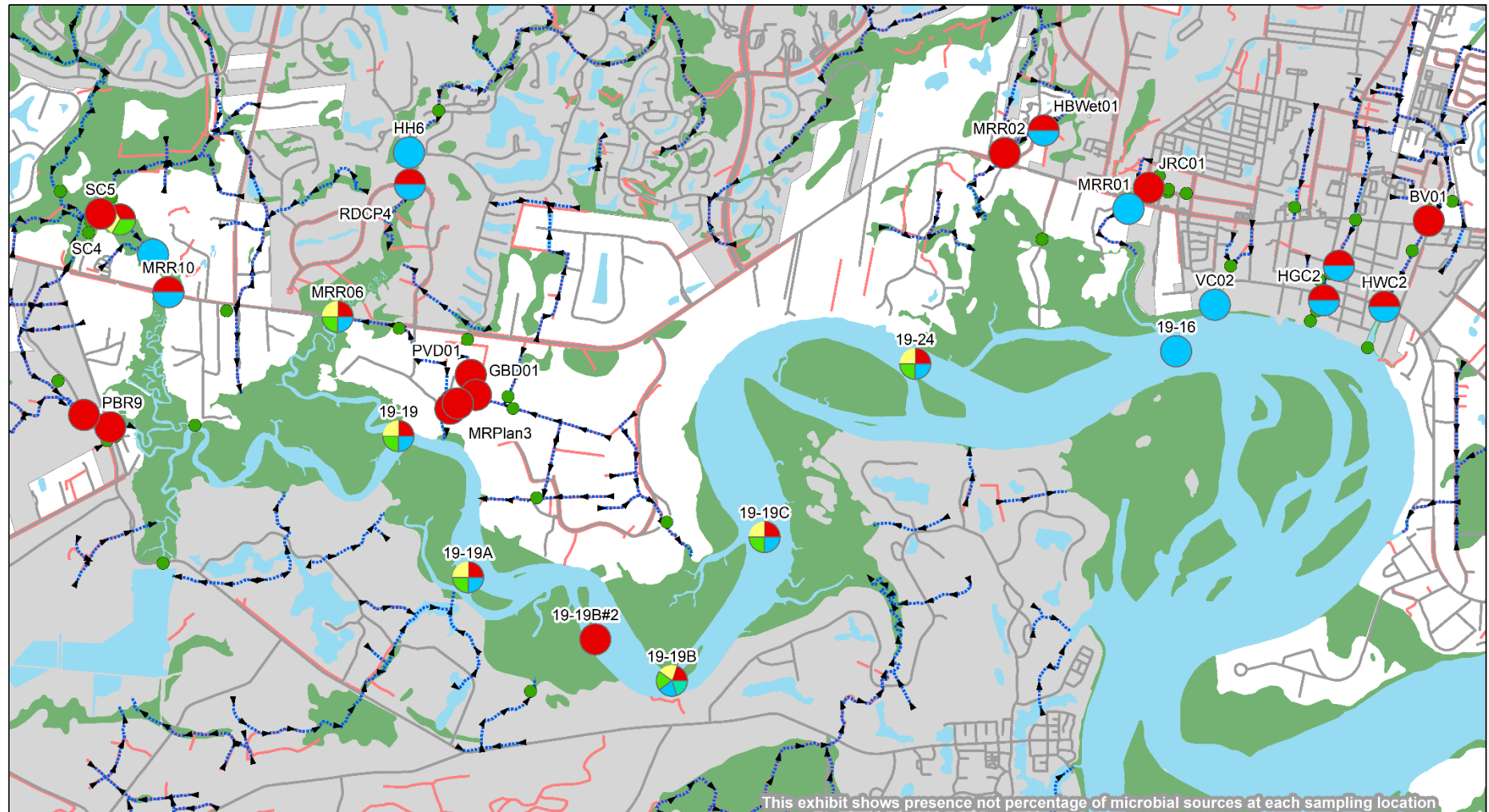
MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map – Human Source



Updated Date: 11/17/2020



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

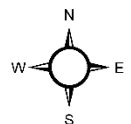


Microbial Sources Detected Within the May River 2017 - 2021

Town of Bluffton
Beaufort County, SC

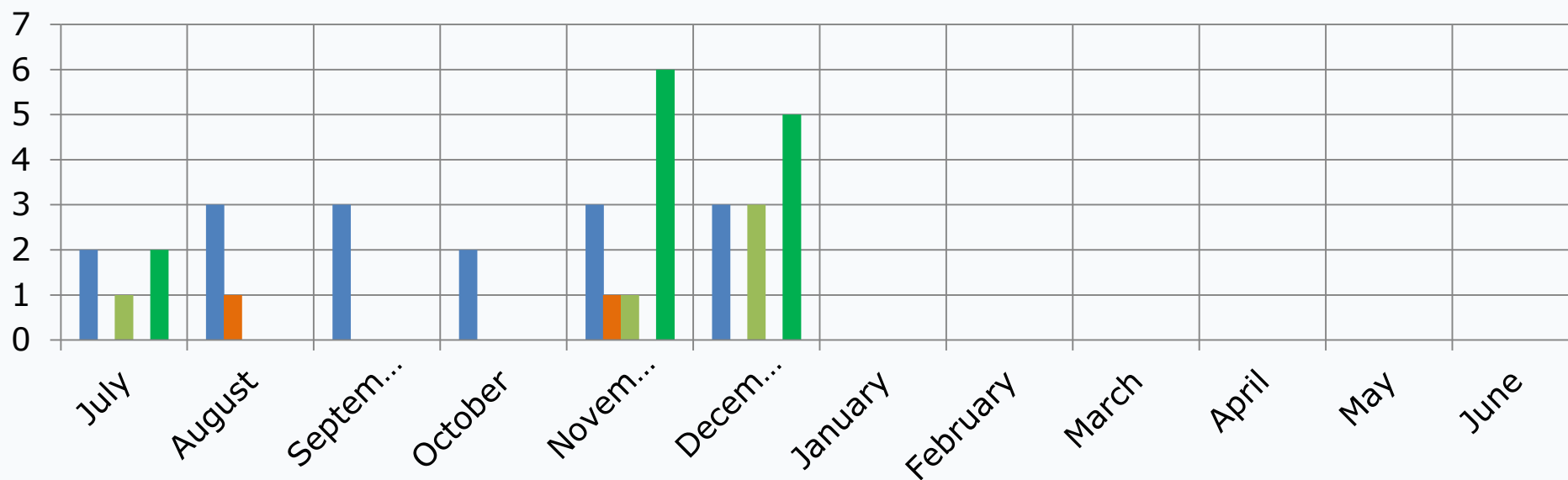
Date: 11/17/2020

DISCLAIMER:
This map was created by the Bluffton Water Management
Department for the Town of Bluffton and is intended to be used as a general reference for the
Town of Bluffton. The map and data are provided for informational purposes only and are not intended to be used for legal or financial purposes. The Town of Bluffton makes no warranty, express or implied, for the accuracy, completeness, or timeliness of the information contained in this map. The Town of Bluffton is not responsible for any errors or omissions in this map. The Town of Bluffton is not responsible for any damages or losses resulting from the use of this map. The Town of Bluffton is not responsible for any damages or losses resulting from the use of this map.



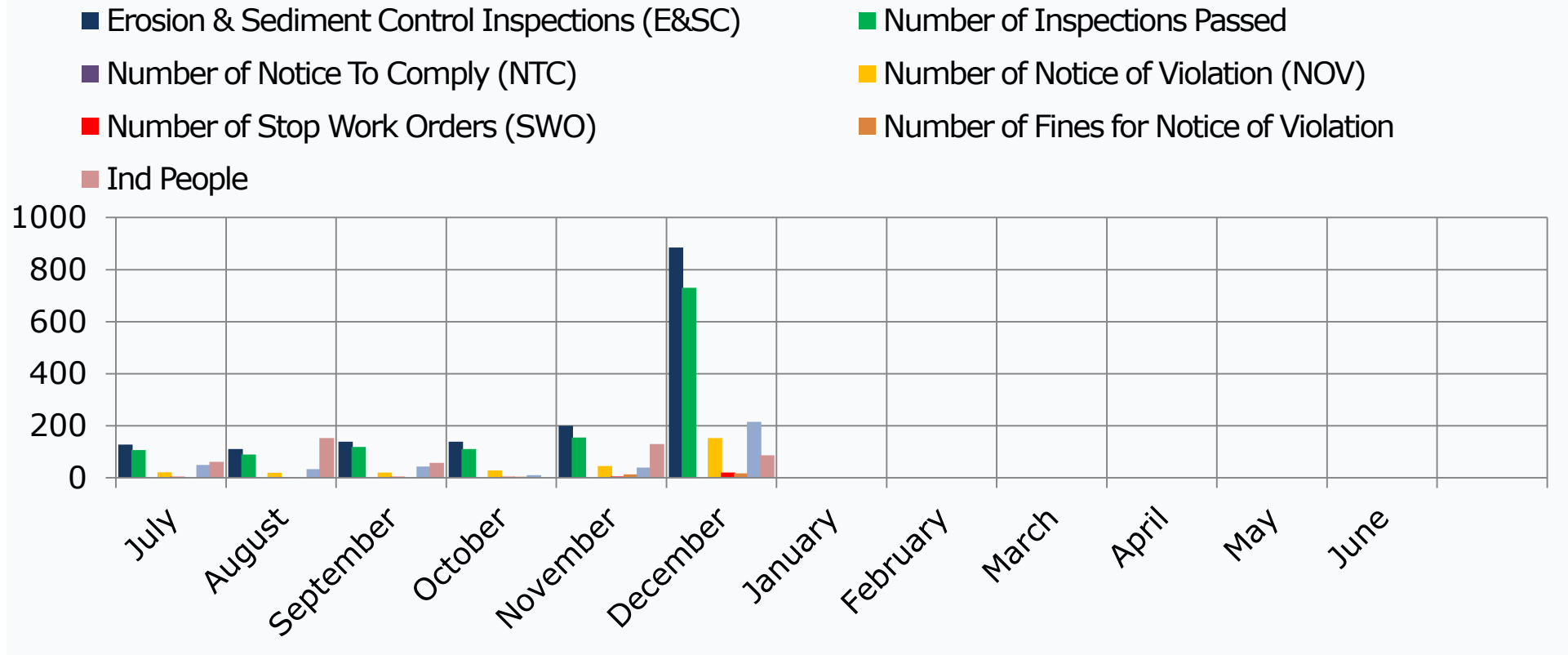
MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations

■ Number of Illicit Discharge Investigations ■ Number of Notice To Comply
■ Number of Notice of Violation ■ Number of NOV Enforcement Actions
■ Number of Meetings



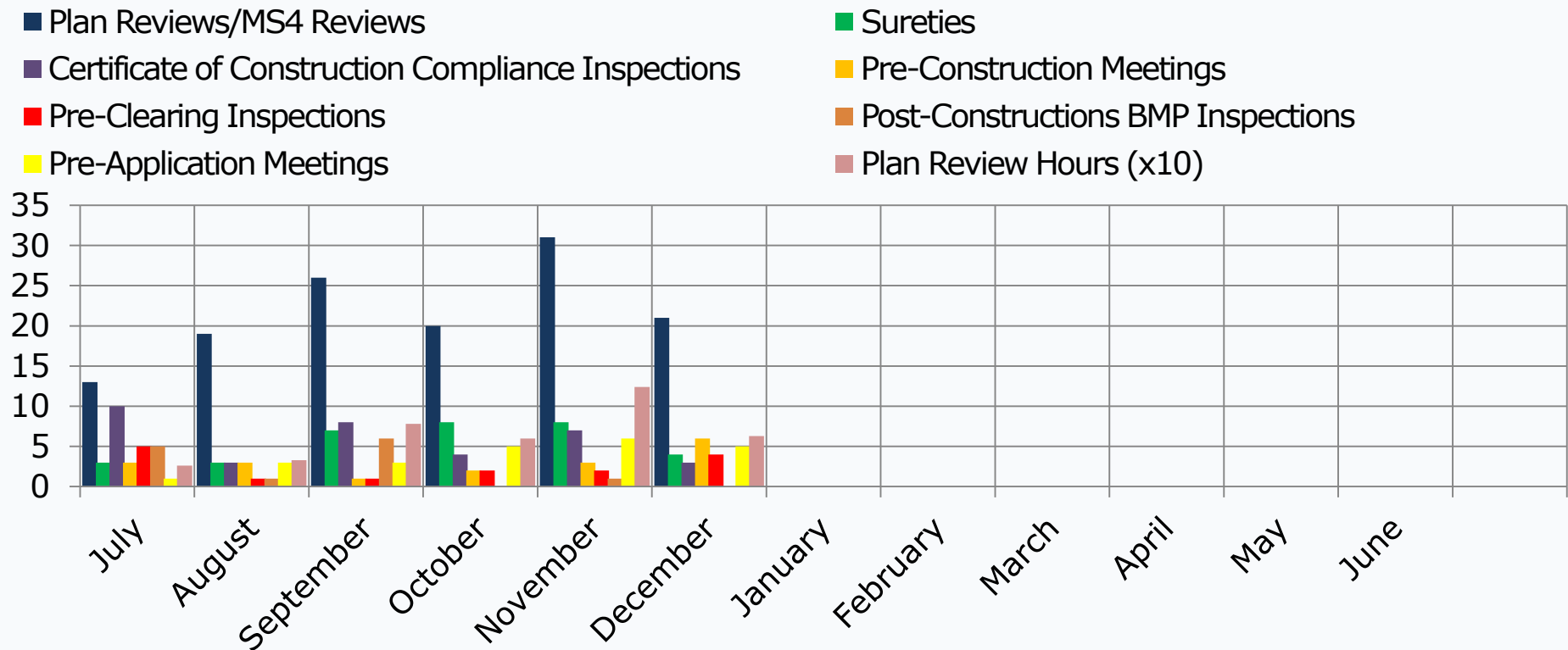
	Number of Illicit Discharge Investigations	Number of Notices To Comply Issued	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2021 YTD Totals	16	8	1	0	13
FY 2020 Totals	45	10	8	6	49
FY 2019 Totals	38	20	3	1	61
FY 2018 Totals	48	20	4	2	60

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



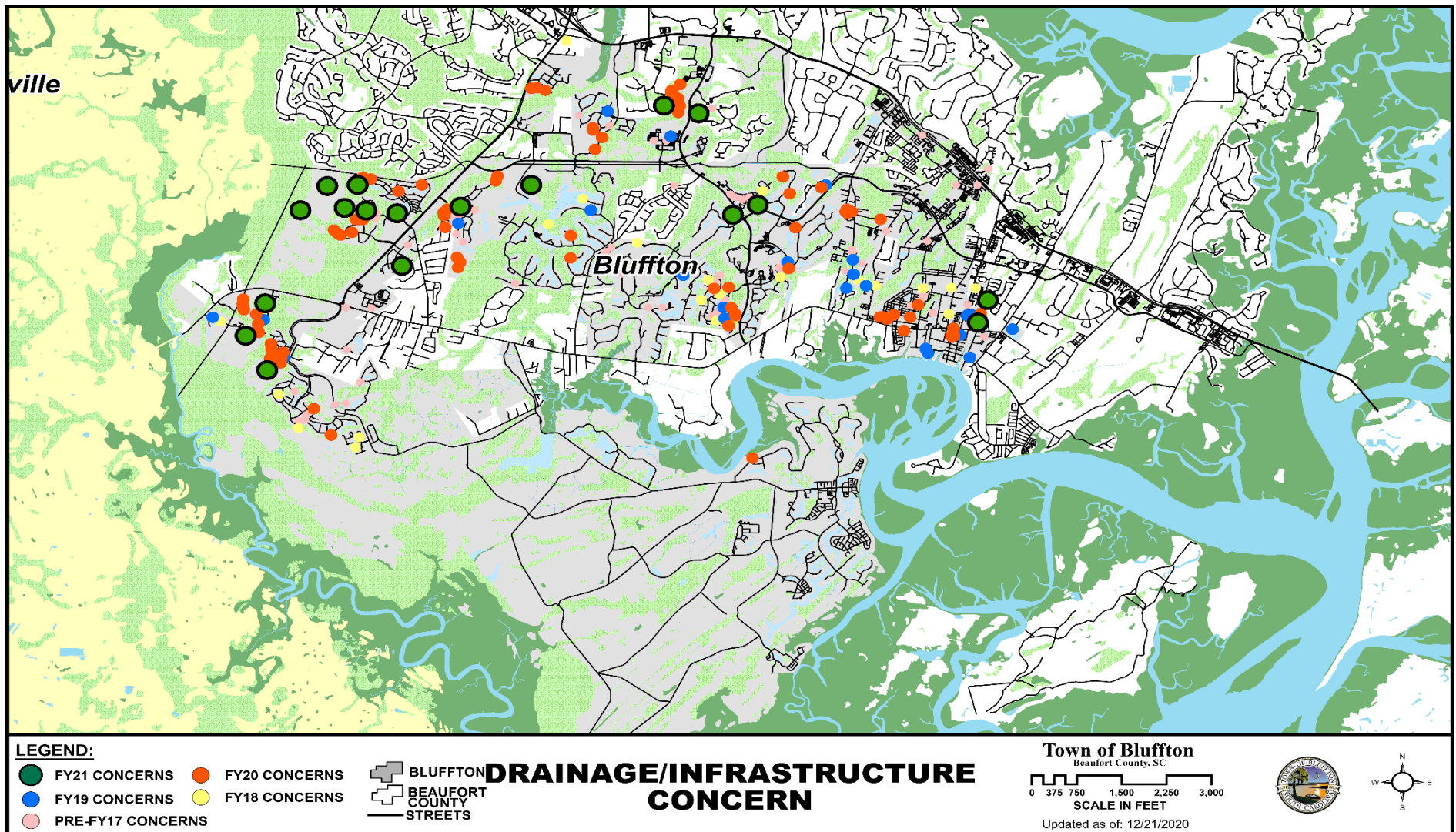
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NTC Issued	Number of NOVs Issued	Number of SWO Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2021 YTD Totals	885	730	N/A	153	20	17	215
FY 2020 Totals	1,517	1187	128	185	16	9	496
FY 2019 Totals	1,688	1,384	254	72	N/A	7	403

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



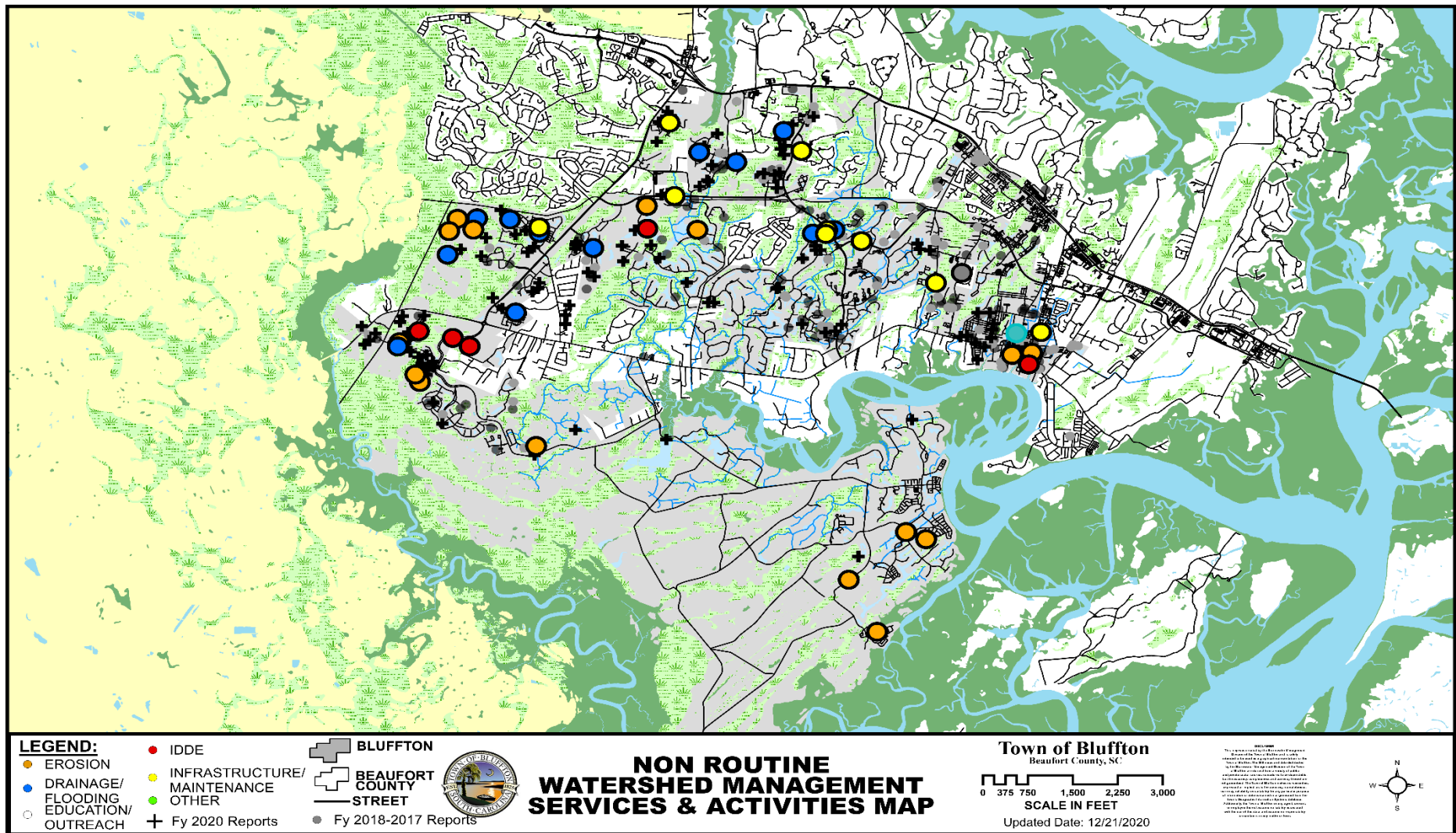
	Plan Reviews MS4 Reviews	Sureties	Certificate of Construction Compliance Inspections	Pre- Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2021 YTD Totals	109	29	32	12	11	13	18	321 Hrs.
FY 2020 Totals	176	53	46	36	17	8	36	789 Hrs.
FY 2019 Totals	208	52	53	47	37	27	63	1,040 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2021 YTD Totals	18	25
FY 2020 Totals	68	76
FY 2019 Totals	54	59

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2021 YTD Totals	23	27
FY 2020 Totals	99	102
FY 2019 Totals	75	79

Week	# of Activities	Labor Cost	Equipment Cost	Other Cost	Total
FY21WK1	61	\$4,397.00	\$3,188.00		\$7,584.00
FY21WK2	56	\$5,474.00	\$3,574.00	\$121.00	\$9,168.00
FY21WK3	48	\$4,880.00	\$3,502.00		\$8,382.00
FY21WK4	62	\$5,828.00	\$3,970.00		\$9,799.00
FY21WK5	45	\$4,706.00	\$3,575.00		\$8,281.00
FY21WK6	54	\$5,645.00	\$3,114.00		\$9,126.00
FY21WK7	60	\$4,855.00	\$4,232.00		\$9,087.00
FY21WK8	67	\$5,118.00	\$4,221.00		\$9,339.00
FY21WK9	50	\$5,784.00	\$3,923.00		\$9,707.00
FY21WK10	54	\$6,131.00	\$4,248.00	\$21.00	\$10,400.00
FY21WK11	41	\$4,677.00	\$2,740.00		\$7,417.00
FY21WK12	70	\$5,580.00	\$2,587.00	\$326.00	\$8,494.00
FY21WK13	94	\$5,864.00	\$5,084.00		\$10,949.00
FY21WK14	49	\$6,171.00	\$4,261.00		\$10,431.00
FY21WK15	53	\$5,870.00	\$4,059.00		\$9,929.00
FY21WK16	62	\$5,239.00	\$3,531.00		\$8,771.00
FY21WK17	77	\$4,660.00	\$3,769.00	\$364.00	\$8,792.00
FY21WK18	45	\$4,679.00	\$3,417.00		\$8,096.00
FY21WK19	62	\$6,186.00	\$7,048.00		\$13,234.00
FY21WK20	41	\$4,135.00	\$2,633.00		\$6,768.00
FY21WK21	51	\$5,446.00	\$3,073.00		\$8,519.00
FY21WK22	39	\$3,229.00	\$3,599.00		\$6,828.00
FY21WK23	51	\$5,072.00	\$3,014.00		\$8,085.00
FY21WK24	76	\$6,073.00	\$5,257.00		\$11,329.00
FY21WK25					
FY21WK26					
FY21WK27					
FY21WK28					
FY21WK29					
FY21WK30					
FY21WK31					
FY21WK32					
FY21WK33					
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FY21WK45					
FY21WK46					
FY21WK47					
FY21WK48					
FY21WK49					
FY21WK50					
FY21WK51					
FY21WK52					
Total	1368	\$125,699.00	\$91,619.00	\$832.00	\$218,515.00