

**TEMPLATE FOR LOCAL GOVERNMENTS AND SPECIAL DISTRICTS FOR PERFORMING A STORMWATER NEEDS ANALYSIS PURSUANT TO SECTION 5 OF SECTION 403.9302, FLORIDA STATUTES**

**INTRODUCTION**

As part of the 2021 regular session, the Legislature recognized the need for a long-term planning process for stormwater and wastewater. Section 403.9302, Florida Statutes, requires a 20-year needs analysis from the local governments providing stormwater services. Because this planning document is forward-looking, it will necessarily include a large number of assumptions about future actions. These assumptions should be based on any available information coupled with best professional judgment of the individuals completing the document. Completing this template by June 30, 2022, will fulfill the statutory requirements for the first round of 20-year needs analyses for stormwater. The template was generated by EDR in cooperation with local governments, Special Districts, the Florida Department of Environmental Protection (DEP), the Water Management Districts, the Florida Stormwater Association, private consultants, and others. Use of this tool will help ensure that information is compiled consistently for the Office of Economic & Demographic Research's (EDR) report to the Legislature.

For the purposes of this document, a stormwater management program and a stormwater management system are as defined in statute (s. 403.031(15) and (16), F.S., respectively; language provided here: <https://www.flsenate.gov/Laws/Statutes/2021/403.031>). Plainly speaking, the "program" is the institutional framework whereby stormwater management activities (MS4 NPDES permit activities, and other regulatory activities, construction, operation and maintenance, etc. ) are carried out by the public authority. The "system" comprises the physical infrastructure that is owned and/or operated by the local government or special district that specifically is intended to control, convey or store stormwater runoff for treatment and flood protection purposes.

For the purposes of this document, the following guiding principles have been adopted:

- Stormwater systems or facilities owned and operated by any of the following are excluded from reporting requirements for local governments and special districts:
  - o Private entities or citizens
  - o Federal government
  - o State government, including the Florida Department of Transportation (FDOT)
  - o Water Management Districts
  - o School districts
  - o State universities or Florida colleges
- Local government expenditures associated with routine operation and maintenance are fully funded prior to commencing new projects and initiatives.
- Local government submissions will include the activities of dependent special districts. Only independent special districts report separately. For a list of all special districts in the state and their type (*i.e.*, dependent or independent), please see the Department of Economic Opportunity's Official List of Special Districts at the following link: <http://specialdistrictreports.floridajobs.org/webreports/alphalist.aspx>.
- With respect to federal and state statutes and rulemaking, current law and current administration prevails throughout the 20-year period. In other words, the state's present legal framework (*i.e.*, the status quo) continues throughout the period.

#### GENERAL INSTRUCTIONS FOR USING THE TEMPLATE

Instructions for submitting the template are still under development. Additional information regarding submission and answers to frequently asked questions will be posted on EDR's website, along with other useful materials, here: <http://edr.state.fl.us/Content/natural-resources/stormwaterwastewater.cfm>

The statutory language forms the titles for each part. This template asks that you group your recent and projected expenditures in prescribed categories. A detailed list of the categories is provided in part 5.0.

The same project should not appear on multiple tables in the jurisdiction's response unless the project's expenditures are allocated between those tables. All expenditures should be reported in \$1,000s (*e.g.*, five hundred thousand dollars should be reported as \$500).

For any jurisdiction that is contracting with another jurisdiction where both could be reporting the same expenditure, please contact EDR for additional guidance. In situations where a reporting jurisdiction contracts with a non-reporting jurisdiction, (*i.e.*, FDOT, the water management districts, the state or federal government), the reporting jurisdiction should include the expenditures.

When reporting cost information, please only include the expenditures that have flowed, are flowing, or will likely flow through your jurisdiction's budget. While necessary to comply with the statute, the concept of "future expenditures" should be viewed as an expression of identified needs.

**These projections are necessarily speculative and do not represent a firm commitment to future budget actions by the jurisdiction.**

This Excel workbook contains three worksheets for data entry. (Along the bottom of the screen, the three tabs are highlighted green.) Empty cells with visible borders are unlocked for data entry. In the first tab, titled "Background through Part 4," the information requested is either text, a dropdown list (*e.g.*, Yes or No), or a checkbox. The next tab, "Part 5 through Part 8," contains tables for expenditure or revenue data as well as some follow-up questions that may have checkboxes, lists, or space for text.

In Part 5 and Part 6, the expenditure tables have space for up to 5 projects. More projects can be listed in the "Additional Projects" tab. This tab contains a table with space for up to 200 additional projects. In order for these additional projects and expenditures to be correctly classified and included in the final totals, each project must be assigned a Project Type and Funding Source Type from the dropdown lists in columns B and C.

#### Links to Template Parts:

[Background Information](#)

[Part 1](#)

[Part 2](#)

[Part 3](#)

[Part 4](#)

[Part 5](#)

[Part 6](#)

[Part 7](#)

[Part 8](#)

[Additional Projects - This table contains additional rows for projects that do not fit into the main tables in Parts 5 and 6](#)

## Background Information

Please provide your contact and location information, then proceed to the template on the next sheet.

Name of Local Government:	Nassau County BOCC
Name of stormwater utility, if applicable:	N/A
Contact Person	
Name:	Katie Peay
Position/Title:	Sr. Stormwater Engineer
Email Address:	kpeay@nassaucountyfl.com
Phone Number:	904-530-6225

Indicate the Water Management District(s) in which your service area is located.

- |                                     |                                                      |
|-------------------------------------|------------------------------------------------------|
| <input type="checkbox"/>            | Northwest Florida Water Management District (NFWFMD) |
| <input type="checkbox"/>            | Suwannee River Water Management District (SRWMD)     |
| <input checked="" type="checkbox"/> | St. Johns River Water Management District (SJRWMD)   |
| <input type="checkbox"/>            | Southwest Florida Water Management District (SWFWMD) |
| <input type="checkbox"/>            | South Florida Water Management District (SFWMD)      |

Indicate the type of local government:

- |                                     |                              |
|-------------------------------------|------------------------------|
| <input type="checkbox"/>            | Municipality                 |
| <input checked="" type="checkbox"/> | County                       |
| <input type="checkbox"/>            | Independent Special District |

**Part 1.0 Detailed description of the stormwater management program (Section 403.9302(3)(a), F.S.)**

The stormwater management program, as defined in the Introduction, includes those activities associated with the management, operation and maintenance, and control of stormwater and stormwater management systems, including activities required by state and federal law. The detailed program description is divided into multiple subparts consisting of narrative and data fields.

**Part 1.1 Narrative Description:**

Please provide a brief description of the current institutional strategy for managing stormwater in your jurisdiction. Please include any mission statement, divisions or departments dedicated solely or partly to managing stormwater, dedicated funding sources, and other information that best describes your approach to stormwater:

Nassau County has a Stormwater Master Plan established in 2008 and updated in 2012. It overviews the major areas of concern and growth potential within the County jurisdiction. Engineering staff budgets for drainage studies and the road department keeps up with maintenance on a complaint basis. The Development Review process reviews new development for State, Federal, and local regulation compliance. We are working towards the SWMP being more of a guide and the projects rotating onto the Capital

On a scale of 1 to 5, with 5 being the highest, please indicate the importance of each of the following goals for your program:

0	1	2	3	4	5	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drainage & flood abatement (such as flooding events associated with rainfall and hurricanes)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water quality improvement (TMDL Process/BMAPs/other)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reduce vulnerability to adverse impacts from flooding related to increases in frequency and duration of rainfall events, storm surge and sea level rise
						Other:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mapping the stormwater system and implementing a maintenance plan
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## Part 1.2 Current Stormwater Program Activities:

Please provide answers to the following questions regarding your stormwater management program.

- Does your jurisdiction have an NPDES Municipal Separate Storm Sewer System (MS4) Permit?   
If yes, is your jurisdiction regulated under Phase I or Phase II of the NPDES Program:
- Does your jurisdiction have a dedicated stormwater utility?   
If no, do you have another funding mechanism?   
If yes, please describe your funding mechanism.  
  
• Does your jurisdiction have a Stormwater Master Plan or Plans?   
If Yes:  
How many years does the plan(s) cover?   
Are there any unique features or limitations that are necessary to understand what the plan does or does not address?  
  
Please provide a link to the most recently adopted version of the document (if it is published online):  
  
• Does your jurisdiction have an asset management (AM) system for stormwater infrastructure?   
If Yes, does it include 100% of your facilities?   
If your AM includes less than 100% of your facilities, approximately what percent of your facilities are included?

- Does your stormwater management program implement the following (answer Yes/No):

A construction sediment and erosion control program for new construction (plans review and/or inspection)?	Yes
An illicit discharge inspection and elimination program?	Yes
A public education program?	No
A program to involve the public regarding stormwater issues?	No
A "housekeeping" program for managing stormwater associated with vehicle maintenance yards, chemical storage, fertilizer management, etc. ?	No
A stormwater ordinance compliance program ( <i>i.e.</i> , for low phosphorus fertilizer)?	Yes
Water quality or stream gage monitoring?	No
A geospatial data or other mapping system to locate stormwater infrastructure (GIS, etc. )?	Yes
A system for managing stormwater complaints?	Yes
Other specific activities?	

currently have two USGS stream gages

Notes or Comments on any of the above:

### Part 1.3 Current Stormwater Program Operation and Maintenance Activities

Please provide answers to the following questions regarding the operation and maintenance activities undertaken by your stormwater management program.

- Does your jurisdiction typically assume maintenance responsibility for stormwater systems associated with new private development (*i.e.*, systems that are dedicated to public ownership and/or operation upon completion)? No

Notes or Comments on the above:

Not since 2015

- Does your stormwater operation and maintenance program implement any of the following (answer Yes/No):

Routine mowing of turf associated with stormwater ponds, swales, canal/lake banks, <i>etc.</i> ?	Yes
Debris and trash removal from pond skimmers, inlet grates, ditches, <i>etc.</i> ?	Yes
Invasive plant management associated with stormwater infrastructure?	No
Ditch cleaning?	Yes
Sediment removal from the stormwater system (vacator trucks, other)?	Yes
Muck removal (dredging legacy pollutants from water bodies, canal, <i>etc.</i> )?	Yes
Street sweeping?	Yes
Pump and mechanical maintenance for trash pumps, flood pumps, alum injection, <i>etc.</i> ?	No
Non-structural programs like public outreach and education?	No
Other specific routine activities?	

## Part 2. Detailed description of the stormwater management system and its facilities and projects (continued Section 403.9302(3)(a), F.S.)

A stormwater management system, as defined in the Introduction, includes the entire set of site design features and structural infrastructure for collection, conveyance, storage, infiltration, treatment, and disposal of stormwater. It may include drainage improvements and measures to prevent streambank channel erosion and habitat degradation. This section asks for a summary description of your stormwater management system. It is not necessary to provide geospatial asset data or a detailed inventory. For some, it may be possible to gather the required data from your Asset Management (AM) system. For others, data may be gathered from sources such as an MS4 permit application, aerial photos, past or ongoing budget investments, water quality projects, or any other system of data storage/management that is employed by the jurisdiction.

Please provide answers to the following questions regarding your stormwater system inventory. Enter zero (0) if your system does not include the component.

	Number	Unit of Measurement
Estimated feet or miles of buried culvert:	30.00	Miles
Estimated feet or miles of open ditches/conveyances (lined and unlined) that are maintained by the stormwater program:	1,268.00	Miles
Estimated number of storage or treatment basins ( <i>i.e.</i> , wet or dry ponds):	613	
Estimated number of gross pollutant separators including engineered sediment traps such as baffle boxes, hydrodynamic separators, <i>etc.</i> :	0	
Number of chemical treatment systems ( <i>e.g.</i> , alum or polymer injection):	0	
Number of stormwater pump stations:		
Number of dynamic water level control structures ( <i>e.g.</i> , operable gates and weirs that control canal water levels):	0	
Number of stormwater treatment wetland systems:	0	
Other:		

Notes or Comments on any of the above:

Ponds will be more accurate as our collection system improves. We currently do not have them categorized as wet/dry/private/public/county maintained



Which of the following green infrastructure best management practices do you use to manage water flow and/or improve water quality (answer Yes/No):

Best Management Practice	Current	Planned
Tree boxes	No	Yes
Rain gardens	Yes	Yes
Green roofs	No	Yes
Pervious pavement/pavers	Yes	Yes
Littoral zone plantings	Yes	Yes
Living shorelines	No	Yes

Other Best Management Practices:

Infiltration Trenches	No	Yes

Please indicate which resources or documents you used when answering these questions (check all that apply).

- ☐ Asset management system
- ☒ GIS program
- ☐ MS4 permit application
- ☒ Aerial photos
- ☐ Past or ongoing budget investments
- ☐ Water quality projects

Other(s):

We reference Duval County's LID manual in our regulations. We allow any Stormwater Control that meets the SJRWMD permitting process.

**Part 3. The number of current and projected residents served calculated in 5-year increments (Section 403.9302(3)(b), F.S.)**

Counties and municipalities: Instead of requiring separate population projections, EDR will calculate the appropriate population estimates for each municipality or the unincorporated area of the county. If your service area is less than or more than your local government's population, please describe in the first text box provided below for part 4.0.

Independent Special Districts:

If an independent special district's boundaries are completely aligned with a county or a municipality, identify that jurisdiction here:

Amelia Island Mosquito Control

Any independent special district whose boundaries do not coincide with a county or municipality must submit a GIS shapefile with the current and projected service area. EDR will calculate the appropriate population estimates based on that map. Submission of this shapefile also serves to complete Part 4.0 of this template.

**Part 4.0 The current and projected service area for the stormwater management program or stormwater management system (Section 403.9302(3)(c), F.S.)**

Rather than providing detailed legal descriptions or maps, this part of the template is exception-based. In this regard, if the stormwater service area is less than or extends beyond the geographic limits of your jurisdiction, please explain.

N/A

Similarly, if your service area is expected to change within the 20-year horizon, please describe the changes (e.g., the expiration of an interlocal agreement, introduction of an independent special district, etc. ).

N/A

[Proceed to Part 5](#)

**Part 5.0 The current and projected cost of providing services calculated in 5-year increments (Section 403.9302(3)(d), F.S.)**

Given the volume of services, jurisdictions should use the template's service groupings rather than reporting the current and projected cost of each individual service. Therefore, for the purposes of this document, "services" means:

1. Routine operation and maintenance (inclusive of the items listed in Part 1.3 of this document, ongoing administration, and non-structural programs)
2. Expansion (that is, improvement) of a stormwater management system.

Expansion means new work, new projects, retrofitting, and significant upgrades. Within the template, there are four categories of expansion projects.

1. Flood protection, addressed in parts 5.2 and 5.3... this includes capital projects intended for flood protection/flood abatement
2. Water quality, addressed in part 5.2 and 5.3... this includes stormwater projects related to water quality improvement, such as BMAPs; projects to benefit natural systems through restoration or enhancement; and stormwater initiatives that are part of aquifer recharge projects
3. Resiliency, addressed in part 5.4... this includes all major stormwater initiatives that are developed specifically to address the effects of climate change, such as sea level rise and increased flood events
4. End of useful life replacement projects, addressed in part 6.0... this includes major expenses associated with the replacement of aging infrastructure

While numbers 3 and 4 have components that would otherwise fit into the first two categories, they are separately treated given their overall importance to the Legislature and other policymakers.

Expansion projects are further characterized as currently having either a committed funding source or no identified funding source. Examples of a committed funding source include the capacity to absorb the project's capital cost within current budget levels or forecasted revenue growth; financing that is underway or anticipated (bond or loan); known state or federal funding (appropriation or grant); special assessment; or dedicated cash reserves for future expenditure.

All answers should be based on local fiscal years (LFY, beginning October 1 and running through September 30). Please use nominal dollars for each year, but include any expected cost increases for inflation or population growth. Please check the EDR website for optional growth rate schedules that may be helpful.

**If you have more than 5 projects in a particular category, please use the "Additional Projects" tab. There, you can use dropdown lists to choose the project category and whether there is a committed funding source, then enter the project name and expenditure amounts.**

**Part 5.1 Routine Operation and Maintenance**

Please complete the table below, indicating the cost of operation and maintenance activities for the current year and subsequent five-year increments throughout the 20-year horizon. Your response to this part should exclude future initiatives associated with resiliency or major expenses associated with the replacement of aging infrastructure; these activities are addressed in subparts 5.4 and 6.0. However, do include non-structural programs like public outreach and education in this category.

If specific cost data is not yet available for the current year, the most recent (2020-21) O&M value can be input into the optional growth rate schedules (available on EDR's website as an Excel workbook). The most recent O&M value can be grown using the provided options for inflation, population growth, or some other metric of your choosing. If the growth in your projected total O&M costs is more than 15% over any five-year increment, please provide a brief explanation of the major drivers.

**Routine Operation and Maintenance**

Expenditures (in \$thousands)

	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42
Operation and Maintenance Costs	157	173	190	209	253
Brief description of growth greater than 15% over any 5-year period:					
Nassau County grew 4.21% in 2021. Population growth and maintenance plans implemented to replace infrastructure within in failure timef					

## Part 5.2 Future Expansion (Committed Funding Source)

Please list expansion projects and their associated costs for the current year and subsequent five-year increments throughout the 20-year planning horizon. In this section, include stormwater system expansion projects or portions of projects with a committed funding source. If you include a portion of a project that is not fully funded, the project's remaining cost must be included in part 5.3, Expansion Projects with No Identified Funding Source.

Though many, if not most, stormwater projects benefit both flood protection and water quality, please use your best judgment to either allocate costs or simply select the primary purpose from the two categories below.

**5.2.1 Flood Protection (Committed Funding Source):** Provide a list of all scheduled new work, retrofitting and upgrades related to flood protection/flood abatement. Include infrastructure such as storage basins, piping and other conveyances, land purchases for stormwater projects, etc. Also include major hardware purchases such as vactor/jet trucks.

**5.2.2 Water Quality Projects (Committed Funding Source):** Please provide a list of scheduled water quality projects in your jurisdiction, such as treatment basins, alum injection systems, green infrastructure, water quality retrofits, etc., that have a direct stormwater component. The projected expenditures should reflect only those costs.

- If you are party to an adopted BMAP, please include the capital projects associated with stormwater in this table. Include BMAP project number, cost to your jurisdiction, and year(s) that capital improvement costs are to be incurred. For reference, DEP publishes a complete list of adopted BMAP projects as an appendix in their Annual STAR Report.

### Expansion Projects with a Committed Funding Source

#### 5.2.1 Flood Protection

Expenditures (in \$thousands)

Project Name	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42
Planned drainage projects		51			
Spring Lake Estates Subdivision (partial)	300				
Bonnieview Bridge Repair/Raise	800				
Thomas Creek PAS/ Watershed Study	240				

#### 5.2.2 Water Quality

Expenditures (in \$thousands)

Project Name (or, if applicable, BMAP Project Number or ProjID)	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42

**Part 5.3 Future Expansion with No Identified Funding Source**

Please provide a list of known expansion projects or anticipated need(s) without formal funding commitments(s), formal pledges, or obligations. If you included a portion of a project that was partially covered by a committed source in part 5.2 above, list the projects and their remaining costs below.

**5.3.1 Future Flood Protection with No Identified Funding Source:** Please provide a list of future flood protection/flood abatement projects, associated land purchases, or major hardware purchases that are needed in your jurisdiction over the next 20 years. Future needs may be based on Master Plans, Comprehensive Plan Elements, Water Control Plans, areas of frequent flooding, hydrologic and hydraulic modeling, public safety, increased frequency of maintenance, desired level of service, flooding complaints, etc.

**5.3.2 Future Water Quality Projects with no Identified Funding Source:** Please provide a list of future stormwater projects needed in your jurisdiction over the next 20 years that are primarily related to water quality issues. Future needs may be based on proximity to impaired waters or waters with total maximum daily loads (TMDLs), BMAPs, state adopted Restoration Plans, Alternative Restoration Plans, or other local water quality needs.

- If you are party to an adopted BMAP, please list capital projects associated with stormwater. Include BMAP project number, cost to your jurisdiction, and year(s) that capital improvement costs are to be incurred.
- List other future water quality projects, including those in support of local water quality goals as well as those identified in proposed (but not yet adopted) BMAPs.

**Expansion Projects with No Identified Funding Source****5.3.1 Flood Protection**

Expenditures (in \$thousands)

Project Name	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42
Thomas Creek Land Aquisition		2,600	2,600	2,600	2,600
Watershed Studies/ Hydrologic Models		480	480	240	240
Stormwater Asset Management		4,000	4,000	1,600	1,600
Spring Lake Estates Subdivision (partial)		1,100			

**5.3.2 Water Quality**

Expenditures (in \$thousands)

Project Name (or, if applicable, BMAP Project Number or ProjID)	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42

Please indicate which resources or documents you used to complete table 5.3 (check all that apply).

<input checked="" type="checkbox"/>	Stormwater Master Plan
<input checked="" type="checkbox"/>	Basin Studies or Engineering Reports
<input type="checkbox"/>	Adopted BMAP
<input type="checkbox"/>	Adopted Total Maximum Daily Load
<input type="checkbox"/>	Regional or Basin-specific Water Quality Improvement Plan or Restoration Plan
	Specify:
<input type="checkbox"/>	Other(s):

#### Part 5.4 Stormwater projects that are part of resiliency initiatives related to climate change

Please list any stormwater infrastructure relocation or modification projects and new capital investments specifically needed due to sea level rise, increased flood events, or other adverse effects of climate change. When aggregating, include O&M costs for these future resiliency projects and investments in this table (not in part 5.1). If your jurisdiction participates in a Local Mitigation Strategy (LMS), also include the expenditures associated with your stormwater management system in this category (for example, costs identified on an LMS project list).

##### Resiliency Projects with a Committed Funding Source

Expenditures (in \$thousands)

Project Name	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42

##### Resiliency Projects with No Identified Funding Source

Expenditures (in \$thousands)

Project Name	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42
Stormwater System Mapping	6	800	800	800	800
Update Vulnerability Study	42				

- Has a vulnerability assessment been completed for your jurisdiction's storm water system? 
  - If no, how many facilities have been assessed?
- Does your jurisdiction have a long-range resiliency plan of 20 years or more? 
  - If yes, please provide a link if available:
  - If no, is a planning effort currently underway?

**Part 6.0 The estimated remaining useful life of each facility or its major components (Section 403.9302(3)(e), F.S.)**

Rather than reporting the exact number of useful years remaining for individual components, this section is constructed to focus on infrastructure components that are targeted for replacement and will be major expenses within the 20-year time horizon. Major replacements include culverts and pipe networks, control structures, pump stations, physical/biological filter media, etc. Further, the costs of retrofitting when used in lieu of replacement (such as slip lining) should be included in this part. Finally, for the purposes of this document, it is assumed that open storage and conveyance systems are maintained (as opposed to replaced) and have an unlimited service life.

In order to distinguish between routine maintenance projects and the replacement projects to be included in this part, only major expenses are included here. A major expense is defined as any single replacement project greater than 5% of the jurisdiction's total O&M expenditures over the most recent five-year period (such as a project in late 2021 costing more than 5% of the O&M expenditures for fiscal years 2016-2017 to 2020-2021).

**If you have more than 5 projects in a particular category, please use the "Additional Projects" tab. There, you can use dropdown lists to choose the project category and whether there is a committed funding source, then enter the project name and expenditure amounts.**

**End of Useful Life Replacement Projects with a Committed Funding Source**

Expenditures (in \$thousands)					
Project Name	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42
Culvert Replacements	44	48	53	59	64
Culvert Infrastructure Inspections	184	920	966	1,014	1,064
Bridge Repair Budget	1,064	5,320	5,586	5,599	5,879

**End of Useful Life Replacement Projects with No Identified Funding Source**

Expenditures (in \$thousands)					
Project Name	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42

**Part 7.0 The most recent 5-year history of annual contributions to, expenditures from, and balances of any capital account for maintenance or expansion of any facility or its major components. (Section 403.9302(3)(f), F.S.)**

This part of the template also addresses a portion of s. 403.9302(3)(g), F.S., by including historical expenditures. Many local governments refer to these as “actual” expenditures.

Consistent with expenditure projections, the jurisdiction’s actual expenditures are categorized into routine O&M, expansion, resiliency projects, and replacement of aging infrastructure. Additionally, the table includes space for reserve accounts. EDR’s interpretation of subparagraph 403.9302(3)(f), F.S., is that “capital account” refers to any reserve account developed specifically to cover future expenditures.

Note that for this table:

- Expenditures for local fiscal year 2020-21 can be estimated based on the most current information if final data is not yet available.
- Current Year Revenues include tax and fee collections budgeted for that fiscal year as well as unexpended balances from the prior year (balance forward or carry-over) unless they are earmarked for the rainy day or a dedicated reserve as explained in the following bullets.
- Bond proceeds should reflect only the amount expended in the given year.
- A reserve is a dedicated account to accumulate funds for a specific future expenditure.
- An all-purpose rainy day fund is a type of working capital fund typically used to address costs associated with emergencies or unplanned events.

The sum of the values reported in the "Funding Sources for Actual Expenditures" columns should equal the total "Actual Expenditures" amount. The cells in the "Funding Sources for Actual Expenditures" section will be highlighted red if their sum does not equal the "Actual Expenditures" total.

If you do not have a formal reserve dedicated to your stormwater system, please enter zero for the final two reserve columns.



**Routine O&M**

	Total	Funding Sources for Actual Expenditures					
	Actual Expenditures	Amount Drawn from Current Year Revenues	Amount Drawn from Bond Proceeds	Amount Drawn from Dedicated Reserve	Amount Drawn from All-Purpose Rainy Day Fund	Contributions to Reserve Account	Balance of Reserve Account
2016-17	2,289	2,289				0	0
2017-18	2,336	2,336				0	0
2018-19	2,459	2,459				0	0
2019-20	2,732	2,732				0	0
2020-21	4,511	4,511				0	0

**Expansion**

	Total	Funding Sources for Actual Expenditures					
	Actual Expenditures	Amount Drawn from Current Year Revenues	Amount Drawn from Bond Proceeds	Amount Drawn from Dedicated Reserve	Amount Drawn from All-Purpose Rainy Day Fund	Contributions to Reserve Account	Balance of Reserve Account
2016-17							
2017-18							
2018-19							
2019-20							
2020-21							

**Resiliency**

	Total	Funding Sources for Actual Expenditures					
	Actual Expenditures	Amount Drawn from Current Year Revenues	Amount Drawn from Bond Proceeds	Amount Drawn from Dedicated Reserve	Amount Drawn from All-Purpose Rainy Day Fund	Contributions to Reserve Account	Balance of Reserve Account
2016-17							
2017-18							
2018-19							
2019-20	40	40					
2020-21							

**Replacement of Aging Infrastructure**

	Total	Funding Sources for Actual Expenditures					
	Actual Expenditures	Amount Drawn from Current Year Revenues	Amount Drawn from Bond Proceeds	Amount Drawn from Dedicated Reserve	Amount Drawn from All-Purpose Rainy Day Fund	Contributions to Reserve Account	Balance of Reserve Account
2016-17	1,269	1,269				0	0
2017-18	1,119	1,119				0	0
2018-19	541	541				0	0
2019-20	708	708				0	0
2020-21	190	190				0	0

**Part 8.0 The local government's plan to fund the maintenance or expansion of any facility or its major components. The plan must include historical and estimated future revenues and expenditures with an evaluation of how the local government expects to close any projected funding gap (Section 403.9302(3)(g), F.S.)**

In this template, the historical data deemed necessary to comply with s. 403.9302(3)(g), F.S., was included in part 7.0. This part is forward looking and includes a funding gap calculation. The first two tables will be auto-filled from the data you reported in prior tables. To do this, EDR will rely on this template's working definition of projects with committed funding sources, *i.e.*, EDR assumes that all committed projects have committed revenues. Those projects with no identified funding source are considered to be unfunded. EDR has automated the calculation of projected funding gaps based on these assumptions.

<b>Committed Funding Source</b>	<b>2022-23 to 2026-27</b>	<b>2027-28 to 2031-32</b>	<b>2032-33 to 2036-37</b>	<b>2037-38 to 2041-42</b>
Maintenance	173	190	209	230
Expansion	51	0	0	0
Resiliency	0	0	0	0
Replacement/Aging Infrastructure	6,288	6,605	6,672	7,007
<b>Total Committed Revenues (=Total Committed Projects)</b>	<b>6,512</b>	<b>6,795</b>	<b>6,881</b>	<b>7,237</b>

<b>No Identified Funding Source</b>	<b>2022-23 to 2026-27</b>	<b>2027-28 to 2031-32</b>	<b>2032-33 to 2036-37</b>	<b>2037-38 to 2041-42</b>
Maintenance	0	0	0	0
Expansion	8,180	7,080	4,440	4,440
Resiliency	800	800	800	800
Replacement/Aging Infrastructure	0	0	0	0
<b>Projected Funding Gap (=Total Non-Committed Needs)</b>	<b>8,980</b>	<b>7,880</b>	<b>5,240</b>	<b>5,240</b>

For any specific strategies that will close or lessen a projected funding gap, please list them in the table below. For each strategy, also include the expected new revenue within the five-year increments.

<b>Strategies for New Funding Sources</b>	<b>2022-23 to 2026-27</b>	<b>2027-28 to 2031-32</b>	<b>2032-33 to 2036-37</b>	<b>2037-38 to 2041-42</b>
CLAM (land acquisition only)	6,000	6,000	6,000	6,000
<b>Total</b>	<b>6,000</b>	<b>6,000</b>	<b>6,000</b>	<b>6,000</b>
<b>Remaining Unfunded Needs</b>	<b>2,980</b>	<b>1,880</b>	<b>-760</b>	<b>-760</b>

### Additional Table Rows

Choose from the drop-down lists for Project Type and Funding Source Type, then fill in the project name and expenditure estimates.

Rows that are highlighted RED are either missing information in a "Project & Type Information" column or have zero expenditures.

[Link to aggregated table to crosscheck category totals and uncategorized projects.](#)

[illegible]









Project & Type Information			Expenditures (in \$thousands)				
Project Type (Choose from dropdown list)	Funding Source Type (Choose from dropdown list)	Project Name	LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42

Project & Type Information			Expenditures				
Project Type	Funding Source Type		LFY 2021-2022	2022-23 to 2026-27	2027-28 to 2031-32	2032-33 to 2036-37	2037-38 to 2041-42
Expansion Projects, Flood Protection	Committed Funding Source	Aggregated Total	0	0	0	0	0
Expansion Projects, Water Quality	Committed Funding Source	Aggregated Total	0	0	0	0	0
Resiliency Projects	Committed Funding Source	Aggregated Total	0	0	0	0	0
End of Useful Life Replacement Projects	Committed Funding Source	Aggregated Total	0	0	0	0	0
Expansion Projects, Flood Protection	No Identified Funding Source	Aggregated Total	0	0	0	0	0
Expansion Projects, Water Quality	No Identified Funding Source	Aggregated Total	0	0	0	0	0
Resiliency Projects	No Identified Funding Source	Aggregated Total	0	0	0	0	0
End of Useful Life Replacement Projects	No Identified Funding Source	Aggregated Total	0	0	0	0	0

<b>Total of Projects without Project Type and/or Funding Source Type</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
--------------------------------------------------------------------------	--	--	----------	----------	----------	----------	----------



## Background Information

Please provide your contact and location information, then proceed to the template on the next page.

Name of Local Government:	Nassau County BOCC
Name of stormwater utility, if applicable:	N/A
Contact Person	
Name:	Katie Peay
Position/Title:	Sr. Stormwater Engineer
Email Address:	<a href="mailto:kpeay@nassaucountyfl.com">kpeay@nassaucountyfl.com</a>
Phone Number:	904-530-6225

Indicate the Water Management District(s) in which your service area is located.

- |                                     |                                                      |
|-------------------------------------|------------------------------------------------------|
| <input type="checkbox"/>            | Northwest Florida Water Management District (NFWFMD) |
| <input type="checkbox"/>            | Suwannee River Water Management District (SRWMD)     |
| <input checked="" type="checkbox"/> | St. Johns River Water Management District (SJRWMD)   |
| <input type="checkbox"/>            | Southwest Florida Water Management District (SWFWMD) |
| <input type="checkbox"/>            | South Florida Water Management District (SFWMD)      |

Indicate the type of local government:

- |                                     |                              |
|-------------------------------------|------------------------------|
| <input type="checkbox"/>            | Municipality                 |
| <input checked="" type="checkbox"/> | County                       |
| <input type="checkbox"/>            | Independent Special District |

## Part 1.0 Detailed description of the stormwater management program (Section 403.9302(3)(a), F.S.)

The stormwater management program, as defined in the Introduction, includes those activities related to the planning, design, construction, operation and maintenance, and control of stormwater and stormwater management system and federal law. The detailed program description is divided into multiple subparts consisting of:

### Part 1.1 Narrative Description:

Please provide a brief description of the current institutional strategy for managing stormwater, including any mission statement, divisions or departments dedicated solely or partly to managing stormwater, and other information that best describes your approach to stormwater:

Nassau County has a Stormwater Master Plan established in 2008 and updated in 2012. It covers the growth potential within the County jurisdiction. Engineering staff budgets for drainage studies and maintenance on a complaint basis. The Development Review process reviews new developments for regulatory compliance. We are working towards the SWMP being more of a guide and the process for implementation.

On a scale of 1 to 5, with 5 being the highest, please indicate the importance of each of the following factors:

0	1	2	3	4	5	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drainage & flood abatement (such as flood
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water quality improvement (TMDL Process
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reduce vulnerability to adverse impacts from duration of rainfall events, storm surge and
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mapping the stormwater system and implementing
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## Part 1.2 Current Stormwater Program Activities:

Please provide answers to the following questions regarding your stormwater management program:

- Does your jurisdiction have an NPDES Municipal Separate Storm Sewer System (MS4)?

If yes, is your jurisdiction regulated under Phase I or Phase II of the NPDES Program?

- Does your jurisdiction have a dedicated stormwater utility?

If no, do you have another funding mechanism?

If yes, please describe your funding mechanism.

capital improvement projects. It's a five year list approved by the Board of Supervisors.

- Does your jurisdiction have a Stormwater Master Plan or Plans?

If Yes:

How many years does the plan(s) cover?

Are there any unique features or limitations that are necessary to address that are not addressed by the plan?

Currently does not address priority projects

Please provide a link to the most recently adopted version of the plan.

<https://www.nassaucountyfl.com/DocumentCenter/View/1915/Draft-Stormwater-Master-Plan>

- Does your jurisdiction have an asset management (AM) system for stormwater infrastructure?

If Yes, does it include 100% of your facilities?

If your AM includes less than 100% of your facilities, approximately what percentage of facilities are included?

- Does your stormwater management program implement the following (answer Yes/No)?

A construction sediment and erosion control program for new construction (preconstruction and/or inspection)?

An illicit discharge inspection and elimination program?

A public education program?

A program to involve the public regarding stormwater issues?

A "housekeeping" program for managing stormwater associated with vehicle yards, chemical storage, fertilizer management, etc. ?

A stormwater ordinance compliance program (i.e., for low phosphorus fertilizers)?

Water quality or stream gage monitoring?

A geospatial data or other mapping system to locate stormwater infrastructure?

A system for managing stormwater complaints?

Other specific activities?

currently have two USGS stream gages

Notes or Comments on any of the above:

### Part 1.3 Current Stormwater Program Operation and Maintenance Activities

Please provide answers to the following questions regarding the operation and maintenance of your stormwater management program.

- Does your jurisdiction typically assume maintenance responsibility for stormwater systems with new private development (i.e., systems that are dedicated to public ownership and upon completion)?

Notes or Comments on the above:

Not since 2015

- Does your stormwater operation and maintenance program implement any of the following?

Routine mowing of turf associated with stormwater ponds, swales, canal/lake?

Debris and trash removal from pond skimmers, inlet grates, ditches, etc. ?

Invasive plant management associated with stormwater infrastructure?

Ditch cleaning?

Sediment removal from the stormwater system (vacator trucks, other)?
Muck removal (dredging legacy pollutants from water bodies, canal, etc. )?
Street sweeping?
Pump and mechanical maintenance for trash pumps, flood pumps, alum injection?
Non-structural programs like public outreach and education?
Other specific routine activities?

**Part 2. Detailed description of the stormwater management system and its facilities and projects (**

A stormwater management system, as defined in the Introduction, includes the entire set of si infrastructure for collection, conveyance, storage, infiltration, treatment, and disposal of stor improvements and measures to prevent streambank channel erosion and habitat degradation description of your stormwater management system. It is not necessary to provide geospatial some, it may be possible to gather the required data from your Asset Management (AM) syste from sources such as an MS4 permit application, aerial photos, past or ongoing budget investr other system of data storage/management that is employed by the jurisdiction.

Please provide answers to the following questions regarding your stormwater system inventor not include the component.

Estimated feet or miles of buried culvert:
Estimated feet or miles of open ditches/conveyances (lined and unlined) that are mai stormwater program:
Estimated number of storage or treatment basins ( i.e., wet or dry ponds):
Estimated number of gross pollutant separators including engineered sediment traps boxes, hydrodynamic separators, etc. :
Number of chemical treatment systems ( e.g., alum or polymer injection):
Number of stormwater pump stations:
Number of dynamic water level control structures ( e.g., operable gates and weirs tha water levels):
Number of stormwater treatment wetland systems:
Other:

Notes or Comments on any of the above:

Ponds will be more accurate as our collection system improves. We categorized as wet/dry/private/public/county maintained

Which of the following green infrastructure best management practices do you use to manage water quality (answer Yes/No):

Best Management Practice
Tree boxes
Rain gardens
Green roofs
Pervious pavement/pavers
Littoral zone plantings
Living shorelines

Other Best Management Practices:

Infiltration Trenches

Please indicate which resources or documents you used when answering these questions (check all that apply):

- ☐ Asset management system
- ☒ GIS program
- ☐ MS4 permit application
- ☒ Aerial photos
- ☐ Past or ongoing budget investments
- ☐ Water quality projects

Other(s):

We reference Duval County's LID manual in our regulations. We allow for the SJRWMD permitting process.

### Part 3. The number of current and projected residents served calculated in 5-year increments (See Table 1)

Counties and municipalities: Instead of requiring separate population projections, EDR will calculate population estimates for each municipality or the unincorporated area of the county. If your service area is a special district or other government's population, please describe in the first text box provided below for part 4.0.

Independent Special Districts:

If an independent special district's boundaries are completely aligned with a county or jurisdiction here:

Amelia Island Mosquito Control

Any independent special district whose boundaries do not coincide with a county or jurisdiction shapefile with the current and projected service area. EDR will calculate the appropriate that map. Submission of this shapefile also serves to complete Part 4.0 of this template.

**Part 4.0 The current and projected service area for the stormwater management program or stormwater service area (F.S.)**

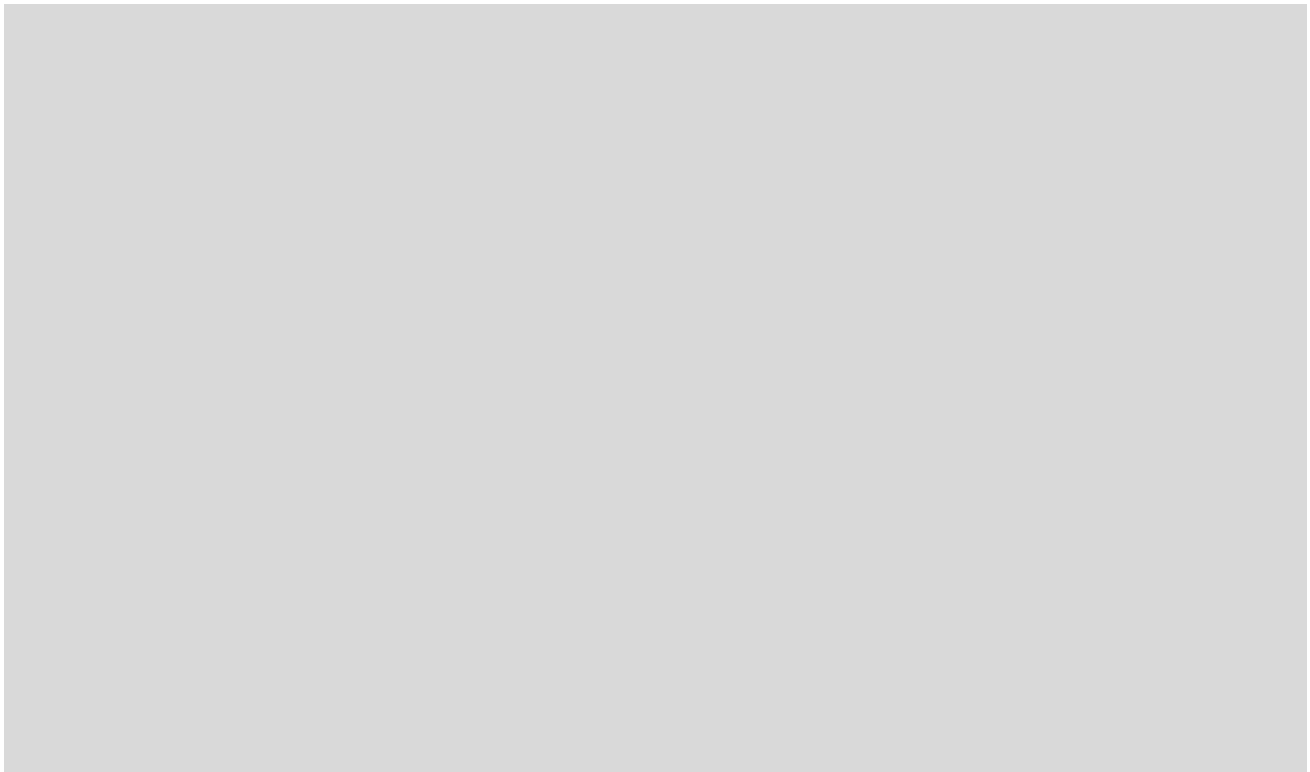
Rather than providing detailed legal descriptions or maps, this part of the template is excepted if your stormwater service area is less than or extends beyond the geographic limits of your jurisdiction.

N/A

Similarly, if your service area is expected to change within the 20-year horizon, please describe an interlocal agreement, introduction of an independent special district, *etc.* ).

N/A

[Proceed to Part 5](#)



ext sheet.

b.)

is associated with the management,  
s, including activities required by state  
of narrative and data fields.

er in your jurisdiction. Please include  
water, dedicated funding sources,

rviews the major areas of concern and  
; and the road department keeps up  
opment for State, Federal, and local  
jects rotating onto the Capital

Following goals for your program:

ing events associated with rainfall and hurricanes)  
/BMAPs/other)  
m flooding related to increases in frequency and  
sea level rise

menting a maintenace plan

rogram.

Permit? No

ogram:

No

ard.

Yes

5

derstand what the plan does or does

ocument (if it is published online):

ft-ReportPart-1Nassau-County-SWMP?b

tructure? Yes



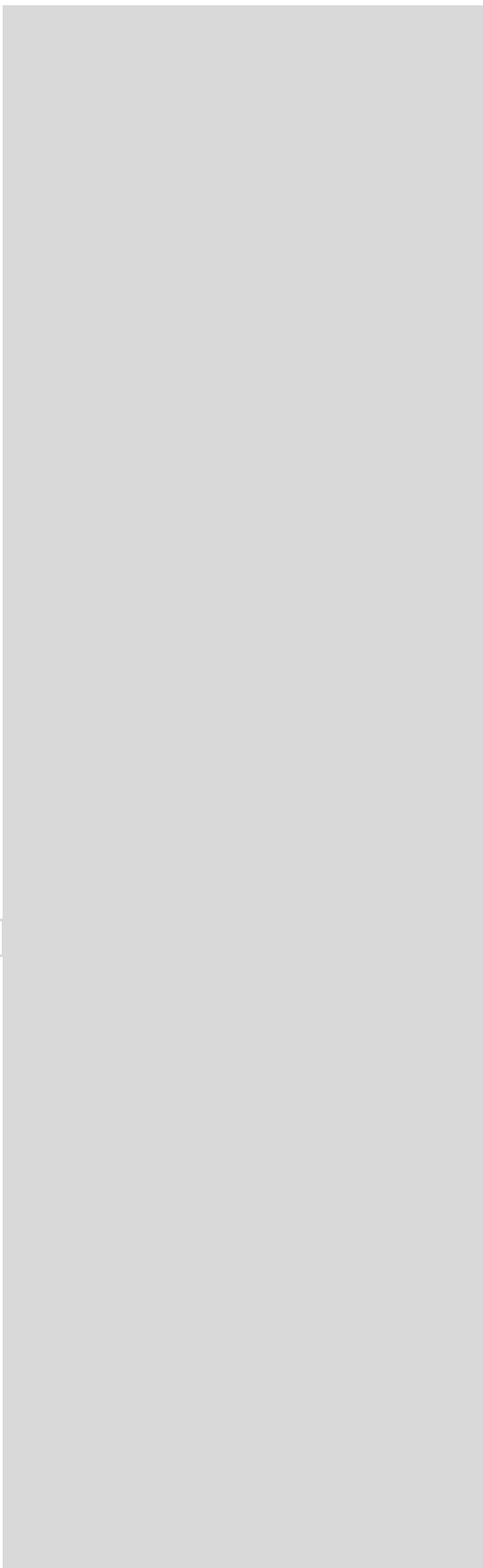
	No
cent of your	40%

lo):	
plans review	Yes
	Yes
	No
	No
maintenance	No
zer)?	Yes
	No
re (GIS, etc. )?	Yes
	Yes


--

activities undertaken by your	
stems associated and/or operation	No

lows (answer Yes/No):	
e banks, etc. ?	Yes
	Yes
	No
	Yes



	Yes
	Yes
	Yes
ction, etc. ?	
	No
	No

**continued Section 403.9302(3)(a), F.S.)**

ite design features and structural  
nwater. It may include drainage  
. This section asks for a summary  
asset data or a detailed inventory. For  
em. For others, data may be gathered  
ments, water quality projects, or any

ry. Enter zero (0) if your system does

	Number	Unit of Measurement
	30.00	Miles
ntained by the	1,268.00	Miles
	613	
such as baffle	0	
	0	
at control canal	0	
	0	

currently do not have them

the water flow and/or improve water

Current	Planned
No	Yes
Yes	Yes
No	Yes
Yes	Yes
Yes	Yes
No	Yes

No	Yes

check all that apply).

any Stormwater Control that meets

Section 403.9302(3)(b), F.S.)

calculate the appropriate population  
is less than or more than your local

r a municipality, identify that

nunicipality must submit a GIS  
ate population estimates based on  
te.

nwater management system (Section 403.9302(3)(c),

n-based. In this regard, if the  
on, please explain.

e the changes ( *e.g.*, the expiration of