



City of North Port



National Pollutant Discharge Elimination System (NPDES)
Municipal Separate Storm Sewer System (MS4)
Permit # FLS000004

Year 2024 Annual Report

Report period Jan 1, 2024 to December 31, 2024



Old Water Control Structure No. 113



New Water Control Structure No. 113



**Creek Blockage
Before Clearing**



**Creek
After Clearing**

**Submitted by
Anthony Friedman, P.E., PTOE
City Engineer
Department of Public Works**

1100 N. Chamberlain Blvd.
North Port, Florida 34286
Office: (941) 240-8098
Cell: (941) 223-7638
Fax: (941) 240-8063
Email: afriedman@northportfl.gov



MEMORANDUM
Department of Public Works

TO: A. Jerome Fletcher II, ICMA-CM, MPA, City Manager

THROUGH: Jason Yarborough, ICMA-CM, Deputy City Manager

THROUGH: Chuck Speake, Director, Department of Public Works

FROM: Elizabeth Wong, P.E., Stormwater Manager *EW*

DATE: June 20, 2025

SUBJECT: Department of Environmental Protection (FDEP) Year 2024 National Pollutant Discharge Elimination System (NPDES) Report per Permit FLS000004-005

Please find attached the NPDES report for the Calendar year 2024. Below is a list of files for your review and action. The report and appendices are combined in a single pdf file named "*North Port Annual NPDES Report Year 2024.pdf*".

Document Name	Purpose	Synopsis	Action Requested
North Port Annual NPDES Report Year 2024	FDEP NPDES Permit requires submittal of an annual NPDES report on their form template	No major deviations.	City Manager to sign page 3 of the report form.
Appendix A - Water Quality Data	Provides reporting year's water quality data, sampling map, discussion of data collected and compliance with regulatory standards.	All water quality is compliant with regulatory standards. It is significant to note that the Site No. 2 (Cocoplum Waterway at Sumter Blvd.) annual geometric mean for chlorophyll- <i>a</i> in 2024 is 5.82 µg/L and is much lower than the 14.22 µg/L in 2023. The lower chlorophyll- <i>a</i> in 2024 could be due to higher and more frequent 2024 rainfalls (81.27 inches) compared to 2023 rainfalls (43.81 inches). Frequent rainfall may lessen the stagnant water conditions that encourage algal growth. The higher 2024 rainfall can also have a dilution effect.	For Review
Appendix B - Water Quality Graphs 2006 to 2020	Provides long term, historic water quality graphs for various parameters.	Historic information.	Reference Only
Appendix C - Water Quality Graphs 2024	Provides calendar year 2021 to 2024 graphs for the various parameters.	The higher 2024 rainfalls may explain the lower chlorophyll- <i>a</i> concentrations, very slight increases in nitrogen, higher color, lower specific conductance and lower salinity. The slightly lower temperatures in 2024 may explain the higher dissolved oxygen levels.	For Review

Please do not hesitate to contact me if you have any questions or require additional information.

CS/ew



Annual Report Form For Individual NPDES Permits For Municipal Separate Storm Sewer Systems (RULE 62-624.600(2), F.A.C.)

- This Annual Report Form must be completed and submitted to the Department to satisfy the annual reporting requirements established in Rule 62-624.600, F.A.C.
- Submit this fully completed and signed form and any REQUIRED attachments by email to the NPDES Stormwater Program Administrator or to the MS4 coordinator (<https://floridadep.gov/water/stormwater/content/npdes-stormwater-permitting-program-contacts>). Files larger than 10MB may be placed on the FTP site at: ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/. After uploading files, email the MS4 coordinator or NPDES Program Administrator to notify them the report is ready for downloading; or by mail to the address in the box at right.
- Refer to the Form Instructions for guidance on completing each section.
- Please print or type information in the appropriate areas below.**

Submit the form and attachments to:
Florida Department of Environmental
Protection
Mail Station 3585
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

SECTION I. BACKGROUND INFORMATION

A.	Permittee Name: City of North Port		
B.	Permit Name: Sarasota County MS4		
C.	Permit Number: FLS000004-005		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 <input type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input checked="" type="checkbox"/> Other, specify Year: 6		
E.	Reporting Time Period (month/year): Jan / 2024 through Dec / 2024		
F.	Name of the Responsible Authority: A. Jerome Fletcher II, ICMA-CM		
	Title: City Manager		
	Mailing Address: 4970 City Hall Boulevard		
	City: North Port	Zip Code: 34286	County: Sarasota
	Telephone Number: 941-429-7076		Fax Number: 941-429-7079
	E-mail Address: jfletcher@fnorthportfl.gov		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Elizabeth Wong, (Alternate is Tricia Wisner)		
	Title: Stormwater Manager (Alternate is Deputy Public Works Director)		
	Department: Department of Public Works		
	Mailing Address: 1100 N. Chamberlain Boulevard		
	City: North Port	Zip Code: 34286	County: Sarasota
	Telephone Number: 941-240-8321 (Alternate is 941-240-8060)		Fax Number: 941-240-8063
	E-mail Address: ewong@northportfl.gov (Alternate is twisner@northportfl.gov)		

SECTION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable In Year 1)

A.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable)
B.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

SECTION III. PART V.B. ASSESSMENT PROGRAM

A.	<p>Provide a brief statement as to the status of water quality monitoring plan implementation. Status may include sampling frequency changes, monitoring location changes, or sampling waiver conditions. <u>DEP Note:</u> If permittee participates in a collaborative assessment program, permittee may refer to a joint response as defined by the interlocal agreement.</p> <p>Name and date of the approved plan: City of North Port NPDES Water Quality Monitoring Plan June 19, 2018 Status: Approved</p> <p>The FDEP approved water quality monitoring plan in the National Pollutant Discharge Elimination System (NPDES) permit utilized the City's Hydrobiological (HB) sampling sites and monitoring data collected under the City's Southwest Florida Water Management District (SWFWMD) Water Use Permit. The HB data will satisfy the NPDES monitoring requirements. The HB data has very similar parameters to the Sarasota County's monitoring plan. The sampling locations provide specific water quality data for the surface water runoff from the City of North Port.</p>
B.	<p>Provide a brief discussion of the assessment program (monitoring and loading) results to date which includes a summary of the water quality monitoring data and / or stormwater pollutant loading changes from the reporting year. <u>DEP Note:</u> Results must be specific to the permittee's SWMP.</p> <p>Please see Appendix A for the discussion of the monitoring results.</p>
C.	<p>Attach a monitoring data summary as required by the permit. An analysis of the data discussing changes in water quality and/or stormwater pollutant loading from previous reporting years. <u>DEP Note:</u> Analysis must be specific to the permittee's SWMP.</p> <p>Please see Appendix A, B and C for the monitoring data and graphs.</p>

SECTION IV. FISCAL ANALYSIS

A.	A. Total expenditures for the NPDES stormwater management program for the current reporting year: \$13,359,759
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$13,114,820
C.	<p>Did the current reporting year resources decrease from the previous year? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/></p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p> <p>N/A</p>

SECTION V. MATERIALS TO BE SUBMITTED WITH THIS ANNUAL REPORT FORM

Only the following materials are to be submitted to the Department along with this fully completed and signed Annual Report Form (check the appropriate box to indicate whether the item is attached or is not applicable):

Attached	N/A	Required Attachments	Permit Citation	Attachment Number/Title
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below.	Part III.A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A list of the flood control projects that did not include stormwater treatment and an explanation for each of why it did not (if applicable).	Part III.A.4	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.	Part V.B.3	Appendix A Water Quality Data Appendix B and C Water Quality Graphs
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 1 ONLY: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM) in accordance with Rule 62-624.600(2)(a), F.A.C.	Part III.A.1	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 2: A copy of the adopted Florida-Friendly Fertilizer ordinance (if applicable).	Part III.A.6	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C.	Part V.A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: A follow-up report on plan implementation of changes to codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. <ul style="list-style-type: none">• The assessment program (with revisions, if applicable).• If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate.	Part V.B.3 Part V.A.3	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	

DO NOT SUBMIT ANY OTHER MATERIALS

(such as records and logs of activities, monitoring raw data, public outreach materials, etc.)

SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

The Responsible Authority listed in Section I.F above must sign the following certification statement, as per Rule 62-620.305, F.A.C.:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Responsible Authority (type or print): A. Jerome Fletcher II, ICMA-CM

Title: City Manager

Signature: _____ Date: ____ / ____ / ____

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE									
A.	B.				C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity				Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
Part III.A.1	Structural Controls and Stormwater Collection Systems Operation								
	Report the current known inventory.								
	Report the number of inspection and maintenance activities conducted for each applicable type of structure included in Table II.A.1.a, and the percentage of the total inventory of each type of structure inspected and maintained.								
	Note: Delete structures that are not in your MS4's inventory. The permittee may choose its own unit of measurement (miles, linear feet, acres, etc) for each structural control to be consistent with the unit of measurement in the documentation.								
	Type of Structure	Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained			
	Dry retention systems	73	73	100	73	100	Lucity Software, \\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 - Year 5\III.A.1 Inventory and Maintenance	PW Engineering inspect. PW Ops, Utilities and Parks & Rec maintain	All ponds routinely mowed. Additionally, 9 dry ponds needed maintenance activities such as bank erosion repair, control structure cleanout or repair. Additionally, 3 effluent filtration systems needed maintenance activities such as replacement of broken cleanouts.
	Effluent filtration systems	77	77	100	77	100			
	Exfiltration trench / French drains (If) Grass treatment swales (miles)	0	N/A	N/A	N/A	N/A	None installed		
		1613	1613	100	10,945 acres roadside swales mowed, 188,476 LF swales rehabilitate d	100% mowed 2.2% rehabilitated	Lucity Software, \\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 - Year 5\III.A.1 Inventory and Maintenance	PW Ops Division, Chelsea Buell collates data for Commission Reports	City mowing records are in acres. All roadside swales are mowed several times per year.
Dry detention systems	0	N/A	N/A	N/A	N/A	None installed			

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE									
A.	B.				C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity				Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
	Wet detention systems Ponds at City Facilities	41	41	100	41	100	Lucity Software, \\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 - Year 5\III.A.1 Inventory and Maintenance	PW Engineering inspect. PW Ops, Utilities and Parks & Rec maintain	Ponds routinely mowed more than once per year. Additionally, 2 ponds needed maintenance activities such as erosion repair, control structure maintenance.
	Stormwater wet Treatment ponds installed originally by General Development Corporation (GDC) as part of 1983 DER consent order for wetland compensation	245	245	100	104	42	Lucity Software, \\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 - Year 5\III.A.1 Inventory and Maintenance	PW Ops Division	All GDC ponds were inspected in 2024. Maintenance activities are based on number of ponds banks mowed.
	Detention with filtration systems	0	N/A	N/A	N/A	N/A	None installed		
	Alum Injection systems	0	N/A	N/A	N/A	N/A	None installed		
	Pollution control boxes	7	7	100	7	100	Lucity Software, \\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 - Year 5\III.A.1 Inventory and Maintenance	Tony Payne	7 grate inlet baskets inspected once per year and cleaned. ~35 lbs of trash.
	Pump stations	0	N/A	N/A	N/A	N/A	None installed		
	Major outfalls	10	10	100	5	40	\\cnp-file-03\Engineering\NPDES\NPDES 2024 Inspections\Major Outfalls	Elizabeth Wong	Maintenance done on Outfalls 1,2, 5 (2 issues) and 9
	Weirs or other control structures	64	64	100	28	44	Lucity Software, S:\PublicWorks\ENG\ENG - Elizabeth Wong\WCS\Inspection of WCS 2024	PW Ops Division	28 Gated structures are inspected, cleared of vegetation/debris and greased annually. Additionally, 13 structures required repairs.
	Pipes / culverts (miles)	79.2	14.5	18.3	954 linear feet of pipes replaced	0.23 % of pipes replaced	Lucity Software, \\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -	PW Engineering and Ops Division inspect. PW Ops, Utilities and Parks & Rec maintain.	Additionally, 18 pipes ends were cleaned in SWFWMD Permitted Facilities.

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE										
A.	B.					C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
	Canals (miles) Inlets / catch basins / grates R-Ditches / conveyance swales (miles)						Year 5\III.A.1 Inventory and Maintenance			
		79.1	79.1	100	672 acres sprayed		Lucity Software Commission Mthly Reports	PW Ops Division Chelsea Buell collates data	Canal vegetation that impedes flow are removed and sprayed as needed.	
		2455	596	24	17	0.69	Lucity Software, \\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 - Year 5\III.A.1 Inventory and Maintenance	PW Engineering and Ops Division inspect. PW Ops and Parks and Rec staff maintain.	16 Catch basins maintained (cleaned) in SWFWMD Permitted Facilities plus 1 catch basin top grate was replaced.	
		132	132	100	1016 acres of Drainage ROW R-ditch bank mowed, 74 miles of R-ditch bottoms mowed, 78,890 LF of R-ditches rehabilitated	56.2% of R-ditches mowed, 11.3% of R-ditches rehabilitated.	Lucity Software Commission Mthly Reports	PW Ops Division Chelsea Buell collates data	Mower operator inspects R-ditches during mowing.	
	If the minimum inspection frequencies set forth in Table II.A.1.a. were not met, provide an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.								All minimum requirements met	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Good guidance and criteria for inspection frequency				
	Limitations: NPDES report form requires <u>miles</u> of R-Ditches / conveyance swales maintained but City's tracking system reports <u>acres</u> of swales mowed.				
	SWMP revisions implemented to address limitations: Form should allow narrative discussion of maintenance accomplishments.				
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Report the number of significant development projects, including new and redevelopment, reviewed and approved by the permittee for post-development stormwater considerations.				
	Number of significant development projects reviewed	148	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.2 New Development Review	Elizabeth Wong	
	Number of significant development projects approved	81			Several projects were approved in following year or continued for review
	Provide in the Year 2 Annual Report the summary report of the review activity. Provide in the Year 4 Annual Report the follow-up report on plan implementation.				
	Year 2 ONLY: Attach the summary report of the review activity	<input type="checkbox"/>			N/A
	Year 4 ONLY: Attach the follow-up report on plan implementation	<input type="checkbox"/>			N/A
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: All new and redevelopments in North Port must meet the most current City stormwater regulations which provide better higher quality protection than SWFWMD regulations.				
	Limitations: None				
	SWMP revisions implemented to address limitations: None				
Part III.A.3	Roadways				
	Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected.				
	<i>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</i>				
	PERMITTEE Litter Control: Frequency of litter collection	Daily	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.3 Street Sweeping and Litter Control	PW Operations	City mowing staff also pick up litter.
	PERMITTEE Litter Control: Estimated amount of area maintained (lf)	4,292,640 feet (813 miles)			
	PERMITTEE Litter Control: Estimated amount of litter collected (cy)	557 tons			
	CONTRACTOR Litter Control: Frequency of litter collection	N/A	N/A	N/A	City does not retain contractor specifically just for
CONTRACTOR Litter Control: Estimated amount of area maintained (lf)	N/A	N/A	N/A		

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	CONTRACTOR Litter Control: Estimated amount of litter collected (cy)	N/A	N/A	N/A	picking up litter. Portions of the City are mowed by contactors who pick up litter while mowing. This litter quantity is included in the above reported amount.
OPTIONAL: If an Adopt-A-Road or similar volunteer program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected. If you do not participate in an Adopt-A-Road program, report "0".					
	Trash Pick-up Events: Total miles cleaned Trash Pick-up Events: Estimated amount of litter collected (cy) Adopt-A-Road: Total miles cleaned Adopt-A-Road: Estimated amount of litter collected (cy)	7.6 465 lb 14.8 1710 pounds	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.3 Street Sweeping and Litter Control	PW Operations Emilia Piotrowicz	Great American and International Coastal Cleanup
Report on the street sweeping program, including the frequency of the sweeping, total miles swept, an estimate of the quantity of sweepings collected, and the total nitrogen and total phosphorus loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in column F.					
	Frequency of street sweeping Total miles swept Estimated quantity of sweeping material collected (cy / tons) Total phosphorous loadings removed (pounds) Total nitrogen loadings removed (pounds)	Quarterly 587.25 miles 240 cy 592 1293	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.3 Street Sweeping and Litter Control	PW Operations Brandon Peschel PW Operations Emilia Piotrowicz Elizabeth Wong	Curbed Streets, intersections, bridges, Public Works Parking area swept quarterly. Use ms4-load-reduction-tool
Report the equipment yards and maintenances shops that support road maintenance activities, and the number of inspections conducted for each facility.					
	Name of Facility	Number of Inspections			
	Public Works/Fleet Maintenance facilities	1	Lucy NPDES Inspections\Facilities Sites	Ryan Ruscitti	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Documentation of street maintenance and litter control frequency and calculate nitrogen and phosphorus removal in street sweepings, litter control and BMPs for litter control				
	Limitations: Report form specifies reporting of volume in cubic yards of litter collected. City measures the weight of litter collected.				
	SWMP revisions implemented to address limitations: Revise form to allow option to report weight of roadway litter collected.				
Part III.A.4	Flood Control Projects				
	Report the total number of flood control projects that were constructed by the permittee during the reporting period and the number of those projects that did NOT include stormwater treatment. Provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not.				
	Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.				
	Flood control projects completed during the reporting period	5	S:\PublicWorks\ENGINE\ENG - Elizabeth Wong\WCS	Elizabeth Wong	1. Completed the construction of water control structure (WCS) 113 in 2024. 2. 3. <i>Bethlehem Waterway, and R-226 have been restored.</i> 4. 5. <i>Large sandbars within Lagoon Waterway and the Creighton Waterway have been removed.</i>
	Flood control projects completed that did <u>not</u> include stormwater treatment	0			
	Stormwater retrofit projects planned/under construction	2	S:\PublicWorks\ENGINE\ENG - Elizabeth Wong\WCS	Elizabeth Wong	1. Designed and Permitted WCS 114 Replacement. 2. Designed and permitted removal of 193 blockages from the creek. This will be done in early 2025.
	Stormwater retrofit projects completed	2	Lucity Database	Tricia Wisner	Completed Grid #306 and 206
	If there were projects that did not include stormwater treatment, provide as an attachment a list of the projects and an explanation for each of why it did not.	N/A			Grid projects include grass swales that provides water quality treatment

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Flood control projects are designed to incorporate water quality improvement, if possible. The City's water control structures serve to retain water in the canal system much like a linear wet detention pond treatment system. This provides additional water quality treatment. Rehabilitation of neighborhood grass swale systems also provide grass treatment.				
	Limitations: None				
	SWMP revisions implemented to address limitations: None				
Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				
	Report the applicable TSD facilities and the number of the inspections conducted for each facility.				
	Name of Facility	Number of Inspections			
		N/A			No Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: No TSD in North Port				
	Limitations: No TSD in North Port				
	SWMP revisions implemented to address limitations: No TSD in North Port				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed.				
	PERSONNEL: FDACS public applicators of pesticides/herbicides	11	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2022 - Year 3\III.A.6-Herbicides Pesticides Fertilizers\Fertilizers and FDACS.xls	PW Ops – David Young Park and Recreation – Jeff Nelson	5 PW Staff 6 Parks Staff
	CONTRACTORS: FDACS commercial applicators of pesticides/herbicides	1			Natural Designs Landscaping
	Report the number of permittee personnel who have been trained through the Green Industry BMP Program and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	PERSONNEL: Green Industry BMP Program training completed	26 City Staff	\\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2022 - Year 3\III.A.6- Herbicides Pesticides Fertilizers\Fertilize rs and FDACs.xls		The are a total of 66 City of North Port staff who have received training. 26 of these staff still works for the City as of 2025-04-21
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	380 Non-City Staff working or living in North Port with GI-BMP certificates		Download UF/IFAS https://gibmp.ifas.ufl.edu/certified	
	Provide a copy of the adopted ordinance with the Year 2 Annual Report. If this provision is not applicable because the permittee is not within the watershed of a nutrient-impaired water body, or because the permittee adopted its own fertilizer use ordinance before January 1, 2009, indicate that in Column F.				
	Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance	<input type="checkbox"/>			
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides and fertilizers including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	Brochures/Flyers/Fact sheets distributed	277	\\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 -Year 5\ III.A.6 Herbicides Pesticides Fertilizers and Pub Outreach	Elizabeth Wong, Ryan Ruscitti, Madison Ingalls	
	Neighborhood presentations: Number conducted	2			
	Neighborhood presentations: Number of participants	36			
	Newspapers & newsletters: Number of articles/notices published	17			
	Newsletters: Number of newsletters distributed	121230			
Public displays (e.g., kiosks, storyboards, posters, etc.)	8				
Radio or television Public Service Announcements (PSAs)	0	None, used other forms of public education			
School presentations: Number conducted	12				
School presentations: Number of participants	2096				
Seminars/Workshops: Number conducted	1				
Seminars/Workshops: Number of participants	35				
Special events: Number conducted	8				
Special events: Number of participants	6561				
Number of visitors to stormwater-related pages	4752		Web pages – Environmental Services, Stormwater		

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
					Management and Scoop the Poop Fertilizer Ordinance
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Internal training on Fertilizer BMPs. Good public outreach programs through public events and social media				
	Limitations: None				
	SWMP revisions implemented to address limitations: The NPDES form should include social media platforms (Youtube, Facebook, Twitter, web news releases) as a separate category as this is practical, low cost, and effective method of Public Outreach.				
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Report amendments to legal authority in Year 4.				
	Year 4 ONLY: Attach a report on amendments to applicable legal authority				
Part III.A.7.c	Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal				
	Report on the proactive inspection program, including the number of inspections conducted by the permittee, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Proactive inspections for suspected illicit discharges	8	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.7.c IDDE Proactive Reactive Inspection NOVs	PW Ryan Ruscitti, Elizabeth Wong and Code Compliance Michelle Ross	
	Proactive inspections performed by county	See County NPDES Report			
	Illicit discharges found during a proactive inspection	3			
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	1			
	Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Reports of suspected illicit discharges received	8	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.7.c IDDE Proactive Reactive Inspection NOVs Spills	PW Ryan Ruscitti, Elizabeth Wong and Code Compliance Michelle Ross	
	Reactive investigations of reports of suspected illicit discharges etc.	8			
	Illicit discharges etc. found during reactive investigation	7			
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	2			
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	20		Elizabeth Wong	Elizabeth Wong performs in-house training

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Contractors trained	11	\\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 -Year 5\III.A.7.cd & 9.c Training	Anthony Friedman	City retained Contractors trained during preconstruction meeting
Part III.A.7.d	Illicit Discharges and Improper Disposal — Spill Prevention and Response				
	Report on the spill prevention and response activities, including the number of spills addressed.				
	Hazardous and non-hazardous material spills responded to	28	\\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 -Year 5\III.A.7.d Spills	Fire Dept Scott Lane PW staff also provided assistance on oil spill response	
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	20 PW Staff 151 Fire Dept Staff	\\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 -Year 5\III.A.7.cd & 9.c Training	Elizabeth Wong Adam Inlow - Battalion Chief	Elizabeth Wong performs In-House PW training. Fire Dept. has additional Hazmat training.
	Contractors trained	11		Anthony Friedman	City retained Contractors trained during preconstruction meeting
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee’s jurisdiction to encourage the public reporting of suspected illicit discharges and improper disposal of materials, including the type and number of activities conducted, the type and number of materials distributed, and the number of website visits (if applicable).				
	Brochures/Flyers/Fact sheets distributed Neighborhood presentations: Number conducted Neighborhood presentations: Number of participants Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed Public displays (e.g., kiosks, storyboards, posters, etc.) Radio or television Public Service Announcements (PSAs)	277	\\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 -Year 5\ III.A.6 Herbicides Pesticides Fertilizers and Pub Outreach	Elizabeth Wong, Ryan Ruscitti, Madison Ingalls, William Carlson	
		2			
		36			
		17			
		121230			
		8			
		0			None, used other forms of public education
		School presentations: Number conducted			12
	School presentations: Number of participants	2096			

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Seminars/Workshops: Number conducted	1			
	Seminars/Workshops: Number of participants	35			
	Special events: Number conducted	8			
	Special events: Number of participants	6561			
	Number of visitors to stormwater-related pages	4752			Web pages – Environmental Services, Stormwater Management and Scoop the Poop Fertilizer Ordinance
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee’s jurisdiction to encourage the proper use and disposal of oils, toxics, and household hazardous waste, including the type and number of activities conducted, the type and number of materials distributed, the amount of waste collected / recycled / properly disposed, and the number of Web site visits (if applicable).				
	Brochures/Flyers/Fact sheets distributed	3610	\\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 -Year 0\III.A.7.f Haz Solid Waste	Frank Lama	
	Household Hazardous Waste (HHW) Collection Day: Events	3			
	HHW Collection Day: Amount of waste collected/recycled/disposed (tons)	23.5			
	Neighborhood presentations: Number conducted	2			
	Neighborhood presentations: Number of participants	74			
	Newspapers & newsletters: Number of articles/notices published	0			None, used other forms of public education
	Newsletters: Number of newsletters distributed	0			
	Public displays (e.g., kiosks, storyboards, posters, etc.)	2			Include 3 Youtube videos in Dec 2023 that was not included in 2023 NPDES report
	Radio or television Public Service Announcements (PSAs)	7 Youtube Videos, 2 Radio Announcements.			Summer camp, Big Truck Day, Lamarque, Atwater, Cranberry School Presentation
	School presentations: Number conducted	3			
	School presentations: Number of participants	651			
	Seminars/Workshops: Number conducted	5			
	Seminars/Workshops: Number of participants	2,113			
	Special events: Number conducted	4 Newcomers 3 HHW			
	Special events: Number of participants	450, 1250			
	Storm sewer inlets newly marked/replaced	0	H:\My Documents\ SWFWMD Cooperative Funding	Elizabeth Wong	100 Markers installed in 2010
	Number of visitors to stormwater-related pages	4752	\\cnpsvr8749\Engi neering\NPDES\N	Madison Ingalls	Web pages - Stormwater

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE						
A.	B.	C.		D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed		Documentation / Record	Entity Performing the Activity	Comments
				PDES Annual Report 2024 -Year 5\ III.A.6 Herbicides Pesticides Fertilizers and Pub Outreach		Management and Scoop the Poop Fertilizer Ordinance
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage					
	Report on the type and number of activities undertaken to reduce or eliminate SSOs and inflow/ infiltration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction. Report only the SSOs and inflow / infiltration incidents into the MS4. <i>DEP Note: If the permittee does not own the sanitary sewer system, delete "activity to reduce/eliminate SSOs and I&I."</i>					
	Owner of the sanitary sewer system	City of North Port Utilities Department				
	Activity to reduce/eliminate SSOs and I&I: (description)	62,421 LF Televised		\\cnpsvr8749\Engi neering\NPDES\N PDES Annual Report 2024 -Year 5\III.A.7g SSOs Andrew Hoeppner 3/14/2025 email	Utilities Field Operations Superintendent Andrew Hoeppner	
	Activity to reduce/eliminate SSOs and I&I: (description)	40 LF Gravity sewers repaired				
	SSO incidents discovered	4				
	SSO incidents resolved	4				
	Inflow / infiltration incidents discovered	8				
	Inflow / infiltration incidents resolved	130 manholes rehabilitated, 7 permanently mounted bypass pumps at 7 lift stations				
Part III.A.7 Summary	For activities required by Part III.A.7: Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: City is proactively inspecting for Illicit Discharge Detection and Elimination (IDDE) Limitations: NPDES Permit annual requirement for training on IDDE is too frequent as the subject matter does not change each year and becomes repetitive SWMP Revisions implemented to address limitations: Consider reducing the frequency of staff training from annually to every three years. New staff will always be trained in their first year of employment.					
Part III.A.8.a	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections					
	Report on the high-risk facilities inventory, including the type and total number of high-risk facilities. Report on the high-risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.					
	Type of Facility	Number of Facilities	Number of Inspections	Enforcement Actions		
	Operating municipal landfills	0				

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE							
A.	B.	C.			D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed			Documentation / Record	Entity Performing the Activity	Comments
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0					City of North Port has no high-risk facilities
	EPCRA Title III, Section 313 facilities (TRI)	0					
	Facilities determined as high-risk by the permittee	0					
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries						
	Report the number of high-risk facilities sampled.						
	High-risk facilities sampled	0					City of North Port has no high-risk facilities
Part III.A.8 Summary	For activities required by Part III.A.8: Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.						
	Strengths: N/A						
	Limitations: N/A						
	SWMP revisions implemented to address limitations: N/A						
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices						
	Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.						
	PERMITTEE SITES: Construction site plans reviewed	2			\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.9.a Construction Sites	Elizabeth Wong	WCS 113 and MC Nature Trail
	PERMITTEE SITES: Construction site plans approved	2					
	PRIVATE SITES: Construction site plans reviewed	33					
	PRIVATE SITES: Construction site plans approved	33					
	Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.						
	Notified of ERP stormwater permit requirements	35			\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.9.a Construction Sites	Elizabeth Wong SDR filles, P:\Development Review Committee\Notice to Proceed Notice to Proceed Tracking Start 2022-02-18	All private and permittee projects were all notified of ERP and CGP requirements during plans review. Confirmed coverage received prior to start of construction. Projects <1 ac do not need CGP
	Confirmed ERP coverage	35					
	Notified of CGP stormwater permit requirements	34					
	Confirmed CGP coverage	34					
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement						
	Report on the inspection program for privately-operated and permittee-operated construction sites, including the number of active construction sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.						
	PERMITTEE SITES: Active construction sites	2					

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE							
A.	B.		C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity		Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs PERMITTEE SITES: Percentage of active construction sites inspected PRIVATE SITES: Active construction sites PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs		174	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.9.a Construction Sites Lucity Database used for inspection reports	Elizabeth Wong and Ryan Ruscitti Notice to Proceed Tracking 2024		
			100%				
			33				
			77			Many sites are in WVID which has their own NPDES coverage and does not require City staff to conduct 3 BMP inspections	
	PRIVATE SITES: Percentage of active construction sites inspected		100%				
	Enforcement Action		0				None needed
	Part III.A.9.c	Construction Site Runoff — Site Operator Training					
	Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training).						
		DE P Cer tifi cati on	Annual Training				
	Permittee construction site inspectors	12	2	\\cnpsvr8749\Engineering\NPDES\NPDES Annual Report 2024 -Year 5\III.A.7.cd & 9.c Training	Elizabeth Wong conducted in-house training	RR, EW	
	Permittee construction site plan reviewers		1			Elizabeth Wong reviewed all plans	
	Permittee construction site operators		11			Contactor staff trained	
Part III.A.9 Summary	For activities required by Part III.A.9: Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.						
	Strengths: City Stormwater Manager annually conduct staff trainings. Inspections are all documented. In a mandatory preconstruction meeting on City projects, the City Stormwater Manager or City Project Manager provides a detailed site specific BMP training to City projects site construction managers. These meetings also include trainings on Illicit discharge and spill controls. All site trainings are documented with the sign-in sheet.						
	Limitations: NPDES Permit annual requirement for training on construction inspection is too frequent as the subject matter does not change each year and becomes repetitive						
	SWMP revisions implemented to address limitations: Consider reducing the frequency of staff training from annually to every three years. New staff will always be trained in their first year of employment						

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)

A.	Permit Citation/ SWMP Element	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.
		None
B.	Permit Citation/ SWMP Element	Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change)
		None

SECTION IX. TMDL Status Report

A.	YEAR 1 Provide a table summarizing the status of the TMDL process. Include a list of prioritized TMDLs and their monitoring and implementation schedule; and include the Identification number of the outfall prioritized for TMDL monitoring.							
	WBID Number	Segment/ Waterbody/ Basin	Pollutant of Concern	TMDL DEP / EPA	Percent Reduction (WLA)	Priority Rank	Monitoring Summary / BPCP Due Date	Supplemental SWMP Due Date
				<input type="checkbox"/> / <input type="checkbox"/>				
				<input type="checkbox"/> / <input type="checkbox"/>				
				<input type="checkbox"/> / <input type="checkbox"/>				
B.	YEAR 3 and annually thereafter, provide a summary of the estimated load reductions that have occurred for the pollutant(s) of concern being discharged from the MS4 to the TMDL water body during the reporting period and cumulatively since the date the Supplemental SWMP was implemented. Year 3: Submit a Monitoring data summary or BPCP (if applicable). BPCP on WBID 1976 attached as Appendix E. Year 4: Submit a Supplemental SWMP (if applicable). <i>Note: Previously prioritized waterbodies with approved TMDL Implementation Plans may be reported in this section.</i>							
	WBID Number	Pollutant of Concern	Monitoring Summary / BPCP Submitted	Supplemental SWMP Submitted	Projected load reductions OR Actual load reductions to date			

C.

Provide a brief statement as to the status of TMDL implementation according to Part VIII.B. of the permit (e.g. status of monitoring to validate WLA):

For WBID #1976 Fecal Coliform EPA TMDL, a Bacterial Pollution Control Plan (BPCP) was developed to identify the sources and activities to reduce bacteria loadings from the MS4 to the maximum extent practicable. The BPCP was included with the Year 3 Annual Report. Subsequent request by FDEP to collect additional 14 months of E. Coli. Data showed mostly low concentrations.

APPENDIX A

WATER QUALITY DATA DISCUSSION

The Florida Department of Environmental Protection (FDEP) approved the water quality monitoring plan for the National Pollutant Discharge Elimination System (NPDES) permit, which utilizes the City's Hydrobiological (HB) sampling sites and monitors data collected under the City's Southwest Florida Water Management District Water Use Permit. The HB data has similar parameters compared to the Sarasota County's monitoring plan. The sampling locations provide specific water quality data for the surface water runoff from the City of North Port.

Appendix A includes the following:

- Appendix A-0 is a location map of the 10 HB sampling sites.
- Appendices A-1 through A-10 provides all the monthly HB sampling data from each of the 10 sites.
- Appendices A-11 and A-12 gives a summary comparison of the geometric means of all the sites for current year and previous year respectively.
- Appendices A-13 and A-14 gives a summary comparison of the current year and past year's geometric means of the average of the freshwater site Nos. 1 and 2, and for the tidal site Nos. 3 through 10, respectively.
- Appendix A-15 gives a summary of the geometric means of all data collected from all sites since the start of the monitoring from April 2006 to current year.
- Appendix A-16 gives a summary of the geometric means for the fresh water site Nos. 1 and 2 for the last three years. Three-year comparisons are needed as FAC 62-302.531 criteria for total nitrogen and total phosphorus are annual geometric mean concentrations that must not be exceeded more than once in any three-calendar year period.
- Appendix A-17 gives the arithmetic mean for the current year for all sites.
- Appendix A-18 and A-19 gives the comparison of total ammonia nitrogen (TAN) concentrations for fresh water site Nos. 1 and 2 respectively, in comparison with the established TAN limit per FAC 62.302-530 that was effective on February 17, 2016.
- Appendix A-20 and A-21 provides the Biological Oxygen Demand (BOD), Copper, Zinc and Hardness sampling that began in November 2021, at a location just upstream of WCS No. 101 in the Myakkahatchee Creek and just upstream of WCS No. 106. These are the two major freshwater outfalls from the City.
- Appendix A-22 gives summary of the relevant surface water regulatory standards.

Appendix B and C include the following:

- Graphs are provided for all the data collected from the City's HB monitoring program. For ease of review, graphs are separated into two periods of time.
 - Appendix B includes long-term trending graphs for the period 2006 to 2020.
 - Appendix C includes graphs from 2021 to the current reporting year. Separate graphs are prepared for each parameter.
 - Site No. 6 is a tidal location that represents most closely the water quality in Myakkahatchee Creek immediately downstream of the City of North Port. Comparison graphs are included to show the correlation between nitrogen and phosphorus nutrients, correlation of turbidity, total suspended solids, color with wet weather and inverse relationship between dissolved oxygen, and temperature.
 - The last three graphs (Appendix C-24, C-25 and C-26), include rain data available from a USGS gage No. 02299450 on the upstream side of the Myakkahatchee Creek bridge over Tropicaire

Boulevard. The graphs show the expected direct correlation between rainfall with color, total nitrogen, total phosphorus concentration. This is attributed to rainwater runoff entraining pollutants into the waterways.

Storms in Reporting Year

The City has been impacted by three (3) hurricanes in 2024: Storm Debby (August 5 to 9, 2024) Hurricane Helene (September 26-27, 2024) and Hurricane Milton (October 9, 2024). Both Hurricane Debby and Helene had significant rainfalls. Based on the USGS gage on the Myakkahatchee Creek at Tropicair Blvd., the total rainfall for 2024 is 81.27 inches. This is almost double the 43.81 inches of rainfall measured in 2023. The effect of rainfall and associated pollutants in the run-off, is evident if the sampling event occurs soon after the storm. The rainfall data is given in Appendix C-24, C-25 and C-26.

Total Nitrogen, Total Phosphorus and Chlorophyll-*a*

Fresh Water sites Total Nitrogen and Total Phosphorus:

The City of North Port is located within the numeric nutrient criteria (NNC) watershed region called the “West Central”, and the NNC water quality standards for fresh water flowing streams per FAC 62-302.531 are as follows:

- Total Nitrogen (TN) = 1.65 mg/L
- Total Phosphorus (TP) = 0.49 mg/L
- The annual geometric mean for TN or TP shall not be exceeded more than once in any three-calendar year period.

As shown in Appendix A-16, for North Port’s flowing stream Site No. 1 (Myakkahatchee Creek at Appomattox Blvd.), the maximum of the geometric means for the last three calendar years for TN and TP were 1.13 mg/L and 0.24 mg/L for TN and TP respectively and did not exceed the NNC. The other freshwater Site No. 2 (Cocoplum Waterway at Sumter Blvd) is not considered a flowing stream per the NNC rules.

Fresh Water sites Chlorophyll-*a*:

Appendix A-16 shows the annual geometric mean for chlorophyll-*a* data for Site No. 1 (Myakkahatchee Creek at Appomattox Blvd.) is slightly lower for the current year than the previous year. It is significant to note that the Site No. 2 Cocoplum Waterway at Sumter Blvd.) annual geometric mean for chlorophyll-*a* in 2024 is 5.82 µg/L and is much lower than the 14.22 µg/L in 2023. The lower chlorophyll-*a* in 2024 could be due to higher and more frequent 2024 rainfalls which may lessen the stagnant water conditions that encourage algal growth. The higher 2024 rainfall can also have a dilution effect.

The Site No. 2 chlorophyll-*a* concentrations are higher than Site No. 1 chlorophyll-*a* concentrations and this is typical. This may be because Site No. 1 (Myakkahatchee Creek at Appomattox Blvd.) is a flowing stream most of the year, whereas Site No. 2 (Cocoplum Waterway at Sumter Blvd.) is a quiescent, segmented canal which is more prone to algal formation especially in the hot summers when rainfall with entrained nutrients enters the City’s waterways. FDEP has not established a flowing stream criterion for chlorophyll-*a* for comparison.

The City has experienced algal blooms in freshwater canals near Cosmic and MacCaughey waterways starting in late May 2022. The algal blooms are possibly related to residents fertilizing their lawns prior to the City’s June 1 to Sept 30 restricted period for fertilizing turf grass. Rains are starting earlier in April and May with runoff entraining the fertilizer to enter the City’s waterways. Subsequently, the City of North Port Commission amended its Fertilizer Ordinance No. 2023-14 on May 9, 2023, to extend restricted period on the lawn grass fertilizing each year to start April 1 and end September 30. The City has

conducted much public outreach on the Fertilizer Ordinance amendment, through mailers to fertilizer applicators and lawn care companies, news releases, social media, webpage updates, community and school events, and presentations at Homeowner's Association meetings.

The differences in 2003 and 2004 data for total Nitrogen and Phosphorus concentrations for all measured sites (Appendix A-14 and A-16) are very slight and more long-term data is needed to correlate with anticipated public changes in fertilizer practices per the Fertilizer Ordinance amendment.

Tidal Water Sites Nos. 3-10 Total Nitrogen, Total Phosphorus and Chlorophyll-*a*

Site Nos. 3 through 8 falls in the tidal creek classification and the NNC standards for Total Nitrogen Total Phosphorus and Chlorophyll-*a* have not yet been established for these tidal creek sites for comparison.

Appendix A-14 for tidal creek site Nos. 4, 6 and 7 shows very slight increases in 2024 concentrations for nitrogen and no increase in phosphorus when compared to 2023 concentrations. Chlorophyll-*a* concentrations in 2024 are much lower than 2023 concentrations. This may be due to higher and more frequent 2024 rainfalls which may lessen the stagnant water conditions that encourage algal growth. The higher 2024 rainfall can also have a dilution effect.

Site Nos. 9 and 10 are located in the Myakkahatchee tidal creek close to the Tidal Myakka River Estuary. The nutrient criteria for Tidal Myakka River Estuary per FAC 62-302.532 are given in the table below. Note the City's water quality sampling parameters for tidal creek site Nos. 9 and 10 do not include nutrient parameters:

<u>Estuary</u>	<u>Total Nitrogen</u>	<u>Total Phosphorus</u>	<u>Chlorophyll <i>a</i></u>
Tidal Myakka River	1.02 mg/L	0.31 mg/L	11.7 µg/L

*The Annual arithmetic mean values for nutrients and annual arithmetic means for chlorophyll-*a*, not to be exceeded more than once in a three-year period. Nutrient and nutrient response values do not apply to tidally influenced areas that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic conditions*

Total Ammonia Nitrogen (TAN)

The TAN criteria for fresh water in FAC 62.302-530 was effective on February 17, 2016. The TAN criterion is not a fixed number value but is based on a complex formula given in Appendix A-20 with input variables of pH and temperature. Since temperature was not measured for freshwater site Nos. 1 and 2 in the monitoring program, the temperature of the downstream site Nos. 3 was used in the calculation of the allowable TAN freshwater limit. Appendix A-18 and 19 TAN water quality data are all well below the TAN criteria given in Appendix A-20.

Other Water Quality Parameters

Following is a comparison of other water quality parameters data for the 10 sampling sites, between the current year and the previous year.

Average of Fresh Water Site Nos. 1 and 2 (Appendix A-13)

- The data for total suspended solids, turbidity, and pH are not significantly different between the current year and the previous year.

- Due to the much larger amount of rain received in 2024 compared with 2023, the annual geometric mean for color is much higher. The color is due to tannins, which are organic compounds released from decaying plants and trees. Rainfall dissolves and entrains the tannins into the surface waters.
- Rainfall cause dilution of runoff and may be the reason for the lower specific conductance and salinity in 2024 compared to 2023.

Average of Tidal Creek Site Nos. 3-10 (Appendix A-14)

- Tidal water data is subject to tidal and flow conditions at the time of measurement and will differ from year to year. Thus, it is difficult to compare data from current year with the previous year.
- The data for total suspended solids, turbidity, pH, and secchi depth are not much different between the previous and current year.
- Color is higher and specific conductance and salinity are both lower in 2024 compared to 2023 and probably due to the higher rainfall in 2024.
- Average temperature is slightly lower in 2024 compared to 2023.
- Correspondingly, the Dissolved oxygen (D.O.), percent saturation of dissolved oxygen is higher probably due to slightly cooler temperatures in 2024 compared to 2023.
- Specific conductance and salinity are very subject to tidal conditions at the time of sampling. Both specific conductance and salinity are lower in 2024 compared to 2023 and may be due to the higher and more frequent rainfall in 2024.
- FAC 62-302.533 which was effective February 17, 2016, replaced the historical D.O. concentration standard with a percent saturation D.O. criteria. The City is in the "Peninsula bioregion" and the corresponding percent saturation D.O. criteria is "no more than 10% of daily average % D.O. saturation shall be below 38% saturation in fresh waters and 42% saturation in marine waters". The Tidal Creek Site Nos. 3 through 10 are neither total freshwater nor totally marine water. The annual arithmetic average for % D.O. saturations for Tidal Creek Site Nos. 3 through 10, are given in Appendix A-3 through 10 and summarized in A-17. These annual arithmetic averages are all above the freshwater standard of 38% saturation and marine waters standard of 42% saturation.

BOD, Copper, Zinc and Hardness

- Starting in November 2021, the City collected monthly data for BOD₅ and quarterly data for Copper, Zinc and Hardness, at two major freshwater outfalls from the City (Appendix A-20 and 21). One location is just upstream of WCS No. 101 in the Myakkahatchee Creek, and the other location is just upstream of WCS No. 106. Note Hardness data was needed to calculate the allowable limits for Copper and Zinc. The Nov 2021 to Dec 2024 data for BOD₅, total copper and total zinc showed very low concentrations and mostly below detection limit or practical quantification level. All results are well below the allowable limit. This is because there is no heavy industrial activity in the City of North Port. In the water quality plan proposed for the new NPDES permit period 2024 through 2029, the quarterly monitoring of BOD₅, total copper, total zinc is proposed to be discontinued. This new permit has not yet been issued by FDEP as of May 2025.

