

**APPENDIX A
PHASE II MS4 STORMWATER MANAGEMENT PROGRAM (SWMP) ELEMENTS FORM**

SECTION A.I. MINIMUM CONTROL MEASURE (check only one)

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> 1. Public Education and Outreach | <input type="checkbox"/> 3. Illicit Discharge Detection/Elimination | <input type="checkbox"/> 5. Post-construction Stormwater Management (optional) |
| <input type="checkbox"/> 2. Public Involvement/Participation | <input type="checkbox"/> 4. Construction Site Stormwater Runoff Control | <input type="checkbox"/> 6. Pollution Prevention/Good Housekeeping |

SECTION A.II. BEST MANAGEMENT PRACTICES (BMPs) For The Minimum Control Measure Identified In Section A.I. Of This Form

Element ID	BMP Number	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation/Completion	D Responsible Entity/Department
1a	01	Utility Bill Education Port St. Lucie will include educational messages on the utility bills. It will include storm water pollution prevention tips for homeowners, and ways the public can get involved with the program.	1. Number of different educational messages sent on a utility bill per permit year.	1. Currently Implemented	Utility Finance / Engineering.
			2. Total number of customers that received messages per permit year.	2. Currently Implemented	
1a	02	Public Television Educational Program Port St. Lucie will air programs on the city government access channel that educates viewers on storm water runoff pollution. These programs will be produced from agencies such as SFWMD, FDEP, and local agencies including programs written and produced by the City of Port St. Lucie.	1. Number of educational programs aired per permit year.	1. Currently Implemented	Communications / Engineering.
			2. Number of approximate cable viewers.	2. Currently Implemented	
1a	03	City of Port St. Lucie Web Page Port St. Lucie will maintain a web page that has the status of the SWMP and also includes educational material related to storm water runoff pollution.	1. Number of Main Webpage hits.	1. Currently Implemented	M.I.S. / Engineering
			2. Number of Combating Pollution hits.	2. Currently Implemented	
			3. Number of Stormwater Management Program hits.	3. Currently Implemented	

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2a	01	Storm Drain Inlet Stenciling Port St. Lucie will inspect inlets that were stenciled in the first 5-year program. Inlets with damaged or missing stencils will be re-stenciled. Port St. Lucie will also stencil inlets on new roads constructed if needed.	1. Number of stenciled inlets inspected per permit year. 2. Number of inlets re-stenciled per permit year. 3. Number of newly constructed inlets stenciled per permit year.	1. Currently Implemented 2. Currently Implemented 3. Currently Implemented	Engineering
2a	02	Keep PSL Beautiful / Household Hazardous Waste Collection Day Port St. Lucie will contact various civic organizations, schools and businesses to solicit volunteers to clean their local roadways, including drainage swales. The purpose of the program will be to remove trash and debris from major roadways and drainage swales that could impact storm water runoff quality. The city will also make available a day and location where household hazardous waste can be collected. Thus reducing the chance of disposal of these materials.	1. Numbers of volunteers for cleanup day. 2. Pounds of litter and debris removed. 3. Car count for Household hazardous waste days per permit year 4. Amount of Household hazardous waste collected per permit year.	1. Currently Implemented 2. Currently Implemented 3. Currently Implemented 4. Currently Implemented	Public Works
2a	02	Adopt-A-Street Program Port St. Lucie will contact various civic organizations and businesses to solicit volunteers to remove litter in roadside swales through out the year that could impact storm water quality.	1. Number of trash bags collected per permit year. 2. Number of groups participating per permit year.	1. Currently Implemented 2. Currently Implemented	Public Works
2a	04	Litter Hotline Port St Lucie will establish a hotline where members of the public can participate by calling to report litter in the city, and/or acts of littering which could impact storm water quality.	1. Number of Litter Crew work requests	1. Currently Implemented	Public Works

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Element ID	BMP Number	A	B	C	D
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3a	01	Mapping Of Storm Drainage System Port St. Lucie's drainage system is mapped on the GIS database on the city web page. It includes delineation of watersheds, major canals, drainage right of ways, pipes, culverts and MS4 outfalls. Port St. Lucie will update this map yearly to include any new MS4 outfalls from the city to waters of the state. Port St Lucie will also map outfalls from businesses in areas designated by the current land use map as Industrial that drain into a city canal. These outfalls will be referred to from this point as Industrial outfalls.	1. Number of new MS4 outfalls mapped per permit year.	1. Currently Implemented	G.I.S. / Engineering
			2. Number of new Industrial outfalls mapped per permit year.	2. Currently Implemented	
			3. Total MS4 outfalls mapped.	3. Currently Implemented	
			4. Total Industrial outfalls mapped.	4. Currently Implemented	
3b	02	Port St. Lucie Currently Addresses this Element in its Municipal Code. Existing Codes 41.08(e,g,h.2),50.04(c,f),50.06,50.09,64.04(b,c),92.16(a,b), 95.01,95.02,95.17(1-4),95.18,96.23,96.24, and 158.211 effectively prohibit the disposal of any refuse, materials, litter, sediments, or any other pollutant into natural outlets and/or the storm drainage system. City Code 63.25(a.2,3,5)effectively prohibits homes or businesses with failing septic systems from repairing systems and requiring them to connect to the city sewer system, all new homes and businesses are required to connect to city sewer if available.	1. N/A	1. Currently Implemented	Code Enforcement
3c	03	Perform Illicit Discharge Screening A program is designed using the Center for Watershed Protection Outfall Reconnaissance Inventory (ORI) manual as a reference, where city personnel using the ORI (Outfall Reconnaissance Inventory) handbook, will perform illicit discharge screening. This illicit discharge screening will occur on Industrial Outfalls twice /year, and MS4 outfalls once/year. Public Works equipment operators are trained to identify Illicit Discharges while performing canal maintenance throughout the remainder of the city drainage system. Port St Lucie also will track sewage conversions from septic tanks to city sewer. All newly constructed homes are required to hook up to city sewer where available.	1. Number of Industrial outfalls screened per permit year.	1. Currently Implemented	Engineering / Code Enforcement / Public Works / Utilities
			2. Number of MS4 outfalls screened per permit year.	2. Currently Implemented	
			3. Miles of canals screened per permit year.	3. Currently Implemented	
			4. Total outfalls with indications of possible storm water pollution as per ORI Handbook per permit year.	4. Currently Implemented	
			5. Code Violations from 3b.02 per permit year.	5. Currently Implemented	
			6. Conversions from septic to city sewer.	6. Currently Implemented	
			7. New construction connected to city sewer.	7. Currently Implemented	

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		Description of BMP	Measurable Goal(s)	Schedule for Implementation/Completion	Responsible Entity/Department
3d	04	Industry/Business Education Program Port St. Lucie will identify sectors of business or industry within the city that are contributing to illicit or excessive non-storm water discharges into the storm drainage system. The city will develop an education program to deliver to the businesses, either through a trade association or other means deemed appropriate by the city.	1. Identify Problem Sector.	1. Currently Implemented	Engineering
			2. Present Program to Sector per permit year.	2. Currently Implemented	
3d	05	General Public Education Program Port St Lucie includes illicit discharge education in Minimum Control Measure One "Public Education and Outreach". Links are included on the city web page on illicit discharge educational material, including what constitutes an illicit discharge and their dangers to the environment.	1. Number of web page hits per permit year from the Illicit discharge links on the main NPDES web page that educate the public on illicit discharges and harmful affects of illicit discharges.	1. Currently Implemented	Engineering
3d	06	Municipal Employee Education Program Port St. Lucie will train selected employees from Engineering, Public Works, Code Enforcement, and Utility Systems on the hazards of illicit discharges, and detecting and eliminating illicit discharges.	1. Number of employees trained per permit year.	1. Currently Implemented	Engineering

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		Description of BMP	Measurable Goal(s)	Schedule for Implementation/Completion	Responsible Entity/Department
4a	01	<p>Port St. Lucie Currently Addresses this Element in its Municipal Codes.</p> <p>City Code Sections 156.132 and 157.83-85 require erosion and sedimentation control on construction projects that result in a land disturbance of greater than or equal to one acre, or part of a larger common plan of development or sale that disturbs an acre or more. Penalties are assessed under procedure NPDES-03</p>	N/A	1. Currently Implemented	Engineering / Code Enforcement
4b	02	<p>Port St. Lucie Currently Addresses this Element in its Municipal Codes.</p> <p>City Code Sections 156.132 and 157.83-85 require erosion and sedimentation control on construction projects that result in a land disturbance of greater than or equal to one acre, or part of a larger common plan of development or sale that disturbs an acre or more. Through the City Engineering permitting process, a land-clearing permit is not approved until erosion and sediment controls are inspected and a pre-job briefing is conducted to discuss BMP's, city expectations and enforcement policies. Penalties are assessed under procedure NPDES-03.</p>	<p>1. Number of Active sites.</p> <p>2. Number of pre-construction meetings conducted per permit year.</p>	1. Currently Implemented	Engineering
4c	03	<p>Port St. Lucie Currently Addresses this Element in its Municipal Code.</p> <p>City Code Chapter 50 and City Code 95.17(5) require trash control for construction projects that result in a land disturbance of greater than or equal to one acre, or part of a larger common plan of development or sale that disturbs an acre or more. Inspections and Penalties are addressed under NPDES procedures in the Engineering Dept.</p>	1. Number of active sites.	1. Currently Implemented	Engineering / Code Enforcement
4d	04	<p>Review Site Plan Review Process</p> <p>Port St. Lucie will review all projects that result in a land disturbance of greater than or equal to one acre, or part of a larger common plan of development or sale that disturbs an acre or more, as per code 153.23, 153.24, 156.126, and 157.146-152 for consideration of potential water quality impacts.</p>	1. Number of site plans reviewed per permit year.	1. Currently Implemented	Engineering

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4e	05	<p>Storm water Hotline</p> <p>Port St. Lucie will publicize a Storm water Hotline using the city web page, construction site notices, and public service announcements (PSA's) on the local government access channel. This hotline will be a dedicated phone number that allows the public to comment on construction sites that are discharging polluted storm water. As a condition of site permitting, contractors would be required to post a notice onsite with the hotline telephone number. The information gathered from this source would be given to the construction inspectors for follow-up.</p>	<ol style="list-style-type: none"> Number of active sites with hotline notice posted. Number of hits on hotline web page per permit year. Number of hotline PSA's aired per permit year. Number of hotline calls received per permit year. Number of Follow up inspections from hotline calls per permit year. 	1. Currently Implemented	Engineering / M.I.S. / Communications
4f	06	<p>Port St. Lucie Currently Addresses this Element in Engineering Policies and Procedures</p> <p>City inspectors conduct inspections during construction to verify BMP's are being implemented and that turbidity levels in storm water leaving the site are not elevated. Enforcement actions are taken as per NPDES-03 Enforcement policy procedure.</p>	<ol style="list-style-type: none"> Number of Inspections performed per permit year. Enforcement Actions taken per NPDES-03 procedure per permit year. Follow-up inspections from enforcement actions per permit year. 	1. Currently Implemented	Engineering / Code Enforcement

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6a	01	Vacuum Storm Drain Inlets Port St. Lucie will vacuum accumulation of pollutants from storm inlets throughout the city and dispose of waste accordingly. The amount of debris disposed of is included in measurable goal 6a.04.2.	1. Number of inlets cleaned per permit year.	1. Currently Implemented	Public Works
6a	02	Swale Liner Port St Lucie will install swale liner in swales to prevent drainage problems and erosion of swale bottoms. Swale liner maintenance is performed, and debris is removed and disposed of before entering waterways.	1. Amount of swale liner installed per permit year.	1. Currently Implemented	Public Works
			2. Amount of debris removed in cubic yardage per permit year.		
6a	03	Drainage Right of Ways Port St Lucie will perform general maintenance in canals, removing sediments from canal bottoms, and ensuring proper operations of drainage system	1. Number of miles of drainage right of ways maintained per permit year.	1. Currently Implemented	Public Works
6a	04	Sweep Streets Port St Lucie will sweep streets with curb and gutter to remove deposits. Deposits picked up will be disposed of accordingly.	1. Number of miles of streets swept per permit year.	1. Currently Implemented	Public Works
			2. Amount of Cubic yards of street sweepings and inlet cleaning disposed of per permit year.	2. Currently Implemented	Public Works
6a	05	Aquatic Vegetation Control Port St Lucie will maintain wetlands, canal, lakes, and ponds eradicating invasive non-native plant species, and planting native plant vegetation for nutrient removal.	1. Amount of Aquatic acres maintained per permit year	1. Currently Implemented	Public Works

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6a	06	<p>Water Control Structures Port St Lucie will inspect all water control structures on a quarterly basis, in the drainage system for damage, proper function ability, and signs of storm water pollution.</p>	<p>1. Total number of structures inspected per permit year.</p>	<p>1. Currently Implemented</p>	<p>Public Works</p>
6b	01	<p>Training Program for Municipal Employees Port St. Lucie will develop a training plan for its employees in the Public Works Department, Parks and Recreation Department, Utility Systems Department and Engineering Department. The program will cover the basics of the adopted Storm Water Management Plan and BMPs that can be used to reduce or eliminate storm water pollution at city facilities. The training plan will also include inspector training with available materials, such as the Florida Erosion and Sediment Control Inspectors Manual. Records will be kept of training dates and attendees.</p>	<p>1. Number of city personnel trained per permit year.</p>	<p>1. Currently Implemented</p>	<p>Public Works</p>