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 62-621.600, 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. Their names and email addresses are available at: http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm. If files are larger than 10mb, materials may be placed on the NPDES Stormwater ftp site at: ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/. After uploading the ANNUAL REPORT files, an email must be sent to the MS4 coordinator or the NPDES program administrator notifying them the report is ready for downloading
- Refer to the Form Instructions for guidance on completing each section.
- **Please print or type information in the appropriate areas below**

SECTION I. BACKGROUND INFORMATION			
A.	Permittee Name: City of Bartow		
B.	Permit Name: Polk County Municipal Separate Storm Sewer System		
C.	Permit Number: FLS000015-003 (Cycle 3)		
D.	Annual Report Year: ☐ Year 1 ☐ Year 2 x Year 3 ☐ Year 4 ☐ Year 5 ☐ Other, specify Year:		
E.	Reporting Time Period (month/year): October 2013 through September 2014		
F.	Name of the Responsible Authority: George Long		
	Title: City Manager		
	Mailing Address: 450 North Wilson Ave.		
	City: Bartow	Zip Code: 33830	County: Polk
	Telephone Number: 863-534-0100	Fax Number: 863-534-7088	
	E-mail Address: glong.cm@cityofbartow.net		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Rebecca Baker		
	Title: Engineer Technician		
	Department: Public Works		
	Mailing Address: 450 N. Wilson Ave.		
	City: Bartow	Zip Code: 33830	County: Polk
	Telephone Number: 863-534-0100	Fax Number: 863-534-7088	
	E-mail Address: rbaker.pw@ cityofbartow.net		

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? ☐ Yes ☐ No X 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? ☐ Yes ☐ No X Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? ☐ Yes ☐ No ☒ Not Applicable

SECTION III. MONITORING PROGRAM

A.	Provide a brief statement as to the status of monitoring plan implementation: *DEP Note: If monitoring is done for the co-permittee by Polk County you may refer to the Polk County AR here as follows: "The monitoring plan is carried out through an inter-local agreement with Polk County. Please see the Polk County Annual Report for the monitoring information."* **City of Bartow discharges to Saddle Creek Basin below Bow Legs Creek TMDL. There are three major outfalls in the approved TMDL Prioritization list. 6 samples were collected from location 1 and results will be submitted when 7th sample is obtained.**
B.	Provide a brief discussion of the monitoring results to date: *DEP Note: See Part V of the permit for the monitoring requirements. Each permittee must discuss the monitoring results as it relates to the implementation and effectiveness of their SWMP.* **An automatic sampler has obtained six samples at the 1st sampling point and we anticipate having the seventh sample in FY 2014/2015. The sampler was moved to the 2nd sampling point to begin sampling for FY 2014/2015.**
C.	Attach a monitoring data summary, as required by the permit. **Due to insufficient rainfall the City was only able to obtain 6 of the 7 required samples for this permit cycle and will submit summary when all samples are collected.**

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: **$1,222,533.29** *DEP Note: If program resources have decreased from the previous year, attach a discussion of the impacts on the implementation of the SWMP as per Part II.F of the permit.* **Expenditures exceeded the budget amount due to dredging of two ponds. Funds were transferred from reserve account.**
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: **$770,433.45**

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	***DEP Note: Please complete Checklists A & B at the end of the tailored form.***
☐	☒	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.
☐	☒	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.
☐	☒	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.
☒	☐	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.
☐	☒	Year 4 ONLY: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C.

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): George Long

Title: City Manager

Signature: George Long Date: 3/30/15

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**				

Maintain an up-to-date inventory of the structural controls and roadway stormwater collection structures operated by the permittee, including, at a minimum, all of the types of control structures listed in Table II.A.1.a of the permit. Report the current known inventory.

DEP Note: The permittee needs to "customize" this section by adding any structural controls to the list below that are part of the permittee's MS4 currently or are planned for the future. The permittee may remove any structural controls listed that it does not have currently or will likely not have during this permit cycle. Please see the attached description of each type of structure. In addition, the permittee may choose its own unit of measurement for each structural control to be consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres, etc.

Provide an inventory of all known major outfalls covered by the permit and a map depicting the location of the major outfalls (hard copy or CD-ROM). Provide the outfall inventory and map with the Year 1 Annual Report.

Report the number of inspection and maintenance activities conducted for each 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. If the minimum inspection frequencies set forth in Table II.A.1.a were not met, provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.

DEP Note: If the minimum inspection frequencies set forth in Table II.A.1.a of the permit were not met for one or more type of structure, the permittee must provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met. Please provide the title of the attached explanation in Column D and the name of the entity who finalized the explanation in Column E.

Type of Structure	Number of Activities Performed					Documentation / Record	Entity Performing the Activity	Comments
	Total Number of Structures	Number of Inspections	Percentage Inspected	Number of Maintenance Activities	Percentage Maintained			
Dry retention systems	N/A	N/A	N/A	N/A	N/A			No Dry Retention Systems in the City Inventory.
Exfiltration trench / French drains	7	266	100%	4	100%	City of Bartow Work Orders	City of Bartow Public Works	Areas are maintained on an as needed basis.
Grass treatment swales (miles)	14	416	100%	52	100%	FDOT, City of Bartow Parks & Rec. Stormwater Work Orders	City of Bartow Parks & Rec.Department & Public Works.	Areas are maintained on an as needed basis.

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE									
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	Dry detention systems	10	268	100%	52	100%	City of Bartow Inspection Binder. Maintenance records included in the Wet/Dry Area checklist, Employee Project Logs & Work Orders	City of Bartow Public Works	Areas are maintained on an as needed basis.
	Wet detention systems	8	308	100%	28	100%	City of Bartow Inspection Binder. Maintenance records included in the Wet/Dry Area checklist, Employee Project Logs & Work Order.	City of Bartow Public Works	Areas are maintained on an as needed basis.
	Alum injection systems	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pollution control boxes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Stormwater pump stations	1	19	100%	19	100%	City of Bartow Pump Station Checklist	City of Bartow Public Works	Pump Stations are checked monthly to ensure each pump is operating and remove debris and sediment.
	Major stormwater outfalls	6	28	100%	28	100%	City of Bartow Public Works, work orders.	City of Bartow Public Works	Outfalls are inspected monthly and repairs are reported on work orders.
	Weirs or other control structures	5	28	100%	28	100%	City of Bartow Public Works, work orders.	City of Bartow Public Works	Outfalls are inspected monthly and repairs are reported on work orders.
	MS4 pipes / culverts (miles)	50	28	60%	28	60%	City of Bartow Public Works work orders.	City of Bartow Public Works	10% of all stormpipes are inspected

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										annually and repairs are reported on work orders.
	Inlets / catch basins / grates	638	756	100%	756	100%		City of Bartow Top Inlet Catch Basin log & work orders.	City of Bartow Public Works	Throughout the reporting period term work orders are produced from various methods; call ins or internal departmental.
	Ditches / conveyance swales (miles)	4.98	252	100%	252	100%		FDOT Maintenance Agreement, City of Bartow Parks & Recreation contract & City of Bartow Public Works Stormwater Work Orders	City of Bartow Parks & Recreation Department & City of Bartow Public Works Stormwater Dept.	Areas are maintained on a monthly basis. Mow & remove debris & to ensure adequate flow.
	ATTACH explanation if any of the minimum inspection frequencies in Table II.A.1.a were not met									
	Year 1 ONLY: Attach a map of all known major outfalls									
Part III.A.2	**Areas of New Development and Significant Redevelopment**									
	Report the number of significant redevelopment projects reviewed by the permittee for post-development stormwater considerations. *DEP Note: Please provide an explanation in Column F for any "0" reported in Column C.*									
	Number of significant redevelopment projects reviewed						5	City of Bartow Public Works	City of Bartow Staff	Union Academy, Bartow Middle, Ferguson, All In Wood, RK Summers
	Year 2 ONLY: Attach the summary report of the review activity						N/A	N/A	N/A	N/A
	Year 4 ONLY: Attach the follow-up report on plan implementation						N/A	N/A	N/A	N/A
Part III.A.3	**Roadways**									
	Annually review (and revise, as needed) and implement the permittee's written procedures for the litter control program(s) for public streets, roads, and highways, including rights-of-way, employed within the permittee's jurisdictional area and properly dispose of collected material. Implement the program on a monthly, or on an as needed, basis. 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.									

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	DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. In addition, the permittee may choose its own units of measurement for the reporting items. Unit options for the amount of litter include: bags, cubic yards, pounds, tons. Unit options for the amount of area covered by the activity include: square feet, linear feet, yards, miles, acres. If all litter collection is performed by staff or by contractors, but not by both, please remove the non-applicable reporting items.				
	PERMITTEE Litter Control Program: Frequency of litter collection	Once a month	City of Bartow Parks and Rec. Division	City of Bartow Parks and Rec. Divisions cooperation with Polk County Correctional Institute	Schedule changes on availability of PCCI inmates
	PERMITTEE Litter Control Program: Estimated amount of area maintained (linear feet)	570622	FDOT 2014 Mileage Report	City of Bartow Parks and Rec. Division in cooperation with Polk County Correctional Institute	N/A
	PERMITTEE Litter Control Program: Estimated amount of litter collected (cubic yards)	8.26	City of Bartow Public Works	Parks and Rec.	PCCI inmates
	CONTRACTOR Litter Control Program: Frequency of litter collection	Twice a Month during mowing cycle.	City of Bartow Parks and Rec.	Lawns By Ron and Parks and Rec. Contractors	Contractors record litter collection on a monthly basis.
	CONTRACTOR Litter Control Program: Estimated amount of area maintained (linear feet)	13865	City of Bartow Parks and Rec.	Lawns By Ron and Parks and Rec. Contractors	Contractors record litter collection on a monthly basis.

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	CONTRACTOR Litter Control Program: Estimated amount of litter collected (gallons)	765	City of Bartow Parks and Rec.	Lawns By Ron and Parks and Rec. Contractors	Quantity varies from month to month.
	If an Adopt-A-Road or similar program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected. *DEP Note: The permittee may choose its own unit of measurement for the amount of litter collected. Unit options include: bags, cubic yards, pounds, tons. If an Adopt-A-Road or similar program is not implemented by the permittee, please note that in Column F but do not remove the Adopt-A-Road Program reporting items.*				
	Trash Pick-up Events: Total miles cleaned	1	City of Bartow Solid Waste	City of Bartow Solid Waste	Great American Clean Up.
	Trash Pick-up Events: Estimated amount of litter collected (pounds)	13,520.42	City of Bartow Public Works/Solid Waste	City of Bartow Solid Waste	Great American Clean Up.
	Adopt-A-Road Program: Total miles cleaned	N/A	N/A	N/A	No program.
	Adopt-A-Road Program: Estimated amount of litter collected (cubic yards)	N/A	N/A	N/A	No program.
	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 (TN) and total phosphorus (TP) loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in the Year 1 Annual Report. *DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. Also, the permittee may choose its own unit of measurement for the amount of sweeping material collected. Unit options include: cubic yards, pounds, tons.* *DEP Note: If the permittee has curbs and gutters but no street sweeping program is implemented, the permittee must provide an explanation of why not in the Year 1 Annual Report. Refer to Part III.A.3 of the permit for the information that must be included in the explanation (including the alternate BMPs used or planned in lieu of street sweeping). Please provide the title of the attached explanation in Column D and the name of the entity who finalized the explanation in Column E.*				
	Frequency of street sweeping	194 Hours	Street sweeping log.	City of Bartow Public Works	Street sweeping bin is used track total volume.
	Total miles swept (per year)	2146 Miles	Tracked by GPS Data Base via Fleet	City of Bartow Public Works	See comment above.
	Estimated quantity of sweeping material collected (pounds)	668,680	Cedar Trail	City of Bartow	Delivery

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		Pounds	Landfill Tickets and Roll off Logs	Stormwater and Solid Waste	Tickets our used to track volume.
	Total nitrogen loadings removed (pounds)	377	Calculated Load Reduction Form	City of Bartow Public Works	Used the FSA approved formula
	Total phosphorus loadings removed (pounds)	245	Calculated Load Reduction Form	City of Bartow Public Works	Used the FSAapproved formula
	Year 1 ONLY: If have curbs and gutters, attach explanation of why no street sweeping program and the alternate BMPs used or planned		N/A	N/A	N/A
	Annually review (and revise, as needed) and implement the permittee's written standard practices to reduce the pollutants in stormwater runoff from areas associated with road repair and maintenance, and from permittee-owned or operated equipment yards and maintenance shops that support road maintenance activities. Report the number of applicable facilities and the number of inspections conducted for each facility. *DEP Note: The permittee needs to "customize" this section by listing the names of the applicable facilities in Column B and the number of inspections of each facility in Column C. Add more rows if necessary. If "0" is reported in Column C for the number of inspections conducted and the permittee has one or more applicable facilities, please provide an explanation in Column F for why no inspections were conducted. In addition, if the same facility is applicable under both Parts III.A.3 and III.A.5 of the permit, the same site inspection can count towards both inspection requirements as long as it covers the applicable waste area(s). Be sure to report the site inspection under both Parts III.A.3 and III.A.5.*				
		Number of Inspections			
	Name of facility #1: City of Bartow Maintenance Yard	12	City of Bartow Public Works	City of Bartow Public Works	Facility is inspected monthly.
	Name of facility #2: City of Bartow Golf Course Maint. Yard	1	City of Bartow Public Works	City of Bartow Public Works	Facility is inspected yearly.
	Name of facility #3: City of Bartow Solid Waste Lot	250	City of Bartow Solid Waste	City of Bartow Solid Waste	All Vehicles and area are inspected daily
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. The permittee shall 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. *DEP Note: A "stormwater retrofit project" is one implemented primarily to provide stormwater treatment for areas currently without treatment.*				

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	DEP Note: The status of the flood control and retrofit projects should be reported as of the last day of the applicable reporting period. Therefore, there should be no duplication for those reported as planned, for those reported as under construction and for those reported as completed. *DEP Note: If applicable, please provide the title of the attached list of flood control projects that did not include stormwater treatment in Column D and the name of the entity who finalized the list in Column E.*				
	Flood control projects completed during the reporting period	4	City of Bartow Public Works	City of Bartow Public Works and Outside Contractor	Hack Lake Flumes, Hospital Pond, Manor Drive, Centennial Ditch. All of these project have existing stormwater treatment. Project was a maintenance activity.
	Stormwater retrofit projects planned	1	City of Bartow Public Works	Outside Contractor	Maple Avenue Bridge replacement.
	Stormwater retrofit projects under construction during the reporting period	4	City of Bartow Public Works	City of Bartow Public Works and Outside Contractor	Hack Lake Flumes, Hospital Pond, Manor Drive, Centennial Ditch. All of these project have existing stormwater treatment. Project was a maintenance activity.
	Stormwater retrofit projects completed during the reporting period	4	City of Bartow Public Works	City of Bartow Public Works and Outside Contractor	Hack Lake Flumes, Hospital Pond, Manor Drive, Centennial Ditch. All of these project have existing stormwater treatment.

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					Project was a maintenance activity.
Part III.A.5	**Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit**				

Annually review (and revise, as needed) and implement the permittee's written procedures for inspections and the implementation of measures to control discharges from the following facilities that are not otherwise covered by an NPDES stormwater permit:

- Operating municipal landfills;
- Municipal waste transfer stations;
- Municipal waste fleet maintenance facilities; and
- Any other municipal waste treatment, waste storage, and waste disposal facilities.

Report the number of applicable facilities and the number of the inspections conducted for each facility.

DEP Note: The permittee needs to "customize" this section by listing the names of the applicable facilities in Column B and the number of inspections of each facility in Column C. Add more rows if necessary. If "0" is reported in Column C for the number of inspections conducted and the permittee has one or more applicable facilities, please provide an explanation in Column F for why no inspections were conducted. ***An applicable facility under Part III.A.5 includes, but is not limited to, those facilities/yards where street sweeping material and/or yard waste are temporary stockpiled, and where solid waste collection vehicles are parked and/or maintained.*** *In addition, if the same facility is applicable under both Parts III.A.3 and III.A.5 of the permit, the same site inspection can count towards both inspection requirements as long as it covers the applicable waste area(s). Be sure to report the site inspection under both Parts III.A.3 and III.A.5.*

	Number of Inspections			
Name of facility #1:City of Bartow Sweeper bin	31	City of Bartow Public Works GPS sweeper binder.	City of Bartow Public Works	Sweeper bin inspected during each load being dumped or removed.
Name of facility #3:City of Bartow Solid Waste Lot	250	City of Bartow Solid Waste Office	City of Bartow Solid Waste	All Vehicles and area are inspected daily to ensure no discharge from vehicle.
Name of facility #4:City of Bartow Maintenance Yard	12	City of Bartow Public Work Order binder	City of Bartow Public Works	Inspected on a monthly basis.
Name of facility #5:City of Bartow Golf Course	1	City of Bartow Public Works Golf Course.	City of Bartow Public Works	Inspected Annually

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Part III.A.6	**Pesticides, Herbicides, and Fertilizer Application**				
	Continue to require proper certification and licensing by the Florida Department of Agriculture and Consumer Services (FDACS) for all applicators contracted to apply pesticides, herbicides, or fertilizers on permittee-owned property, as well as any permittee personnel employed in the application of these products. Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed. Report the number of permittee personnel and contractors who have been trained through the Green Industry BMP Program, and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed. *DEP Note: If "0" is reported in Column C for any of the reporting items, please include in Column F an explanation of why training was not provided to / obtained by personnel and contractors during the applicable reporting year, the most recent year that training / certification was previously provided / obtained, and the names of the personnel and contractors previously trained / certified.*				
	PERSONNEL: Florida Department of Agriculture and Consumer Services (FDACS) certified applicators of pesticides and herbicides	4	City of Bartow Parks and Rec	City of Bartow Public Works & Parks and Rec.	City of Bartow Parks and Rec and Public Works employees.
	CONTRACTORS: FDACS certified / licensed applicators of pesticides and herbicides	1	City of Bartow Parks and Rec	Parks and Recreation	Applied Aquatics
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	1	City of Bartow Parks and Rec	Parks and Recreation	Applied Aquatics
	PERSONNEL: Green Industry BMP Program training completed	1	Bartow Golf Course	City of Bartow Public Works	Provided BMP for Golf Course Maint.
	CONTRACTORS: Green Industry BMP Program training completed	1	Bartow Golf Course	City of Bartow Public Works	Applied Aquatic.
	Pursuant to SB 2080 (2009), all local governments are encouraged to adopt a Florida-friendly Landscaping Ordinance similar to the one set forth in the document "Florida-friendly Guidance Models for Ordinances, Covenants and Restrictions." If the broader Florida-friendly ordinance described above is not adopted, then all local governments within the watershed of a nutrient-impaired water body shall adopt the Department's Model Ordinance for Florida-Friendly Fertilizer Use on Urban Landscapes pursuant to SB 494 (2009) or an ordinance that includes all of the requirements set forth in the Model Ordinance. The ordinance shall be adopted within 24 months of the date of permit issuance. Provide a copy of the adopted ordinance with the subsequent Year 1 or Year 2 Annual Report. *DEP Note: If this provision is not applicable because the permittee is not within the watershed of a nutrient-impaired water body, then please indicate that in Column F, but do not remove this reporting item.* *DEP Note: Please provide the title and citation of the ordinance in Column D, and the name of the entity who finalized the ordinance in Column E.*				
	Year 1 or Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance				
	During Year 1 of the permit, develop and implement a written public education and outreach program plan to encourage citizens to reduce their use of pesticides, herbicides, and fertilizers. 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, the percentage of the population reached by the activities in total, and the number of Web site visits (if applicable). Activities performed under the Florida Yards and Neighborhoods (FYN) program should only be reported if the permittee is contributing funding towards the FYN staff and program within its jurisdiction.				

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	DEP Note: The permittee should "customize" the list of public outreach activities by removing items or adding items to the list below as appropriate to their particular public outreach program. However, the reporting item of "Estimated percentage of the population reached by the activities in total" must remain. The permittee may add more specifics to the reporting items, such as the name of the brochure or newsletter distributed. If "0" is reported in Column C for all the reporting items please include in Column F an explanation for why no outreach was performed. *DEP Note: Polk County is to report the public education and outreach activities that it performed county-wide (and not just in the unincorporated areas of Polk County). The co-permittees are to report just the public education and outreach activities that they performed.* *DEP Note: Indicate under Column E "Entity Performing the Activity" if FYN or IFAS is performing any of the reported public education and outreach activities. In addition, please complete the following line:* **FYN PROGRAM FUNDING: Permittee Provides Funding? ☐ Yes X No Amount of Funding = $**				
	Estimated percentage of the population reached by the activities in total	40%	City Of Bartow Public Works	City of Bartow	This is an estimate based on customer traffic in the City Hall and Public Education events
	Brochures/Flyers/Fact sheets distributed	550	City Of Bartow Public Works	City of Bartow	7 Rivers Water Festival/ Commuter Work Day/City Hall/Public Works/ Pet Waste event
	FYN: Brochure/Flyers/Fact sheets distributed	75	City Of Bartow Public Works	City of Bartow	7 Rivers Water Festival/ Commuter Work Day/City Hall/Public Works/ Pet Waste event
	School presentations: Number conducted	5	City Of Bartow Public Works	City of Bartow	Circle B
	School presentations: Number of participants	338	City Of Bartow Public Works	City of Bartow	Circle B
	FYN: School presentations: Number conducted		NA	NA	NA
	FYN: School presentations: Number of participants		NA	NA	NA
	Seminars/Workshops: Number conducted	5	City of Bartow Public Works	Rebecca Baker of the City Of Bartow Public	Sediment Erosion Classes, Safety Meetings

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				Works Staff is a certified DEP sedimentation Erosion Control Trainer.	
	Seminars/Workshops: Number of participants	120	City Of Bartow Public Works	Rebecca Baker of the City Of Bartow Public Works Staff is a certified DEP sedimentation Erosion Control Trainer.	Sediment Erosion Classes, Safety Meetings
	Web Site: Number of hits / visitors to the stormwater-related pages	1	www.cityofbartow.net	City of Bartow	Unable to Track number of hits on website
Part III.A.7.a	**Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures**				
	Where applicable, strengthen the legal authority to conduct inspections, conduct monitoring, control illicit discharges, illicit connections, illegal dumping and spills into the MS4 and to require compliance with conditions in ordinances, permits, contracts, and orders. Report amendments, as needed. *DEP Note: If applicable, please provide the title of the attached report in Column D and the name of the entity who finalized the report in Column E.*				
	ATTACH a report on any amendments to the applicable legal authority		**No new ordinances were implemented during the reporting year.**		
Part III.A.7.c	**Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal**				
	During Year 1 of the permit, develop and implement a written proactive inspection program plan for identifying and eliminating sources of illicit discharges, illicit connections, or dumping to the MS4. Report on the proactive inspection program, including the number of inspections conducted, the number of illicit activities found, and the number and type of enforcement actions taken. **A Bacterial Pollution Control Plan was approved and the City of Bartow is in the process of performing "Walk the WBID" with other municipalities discharging to the same WBID to assist in eliminating illicit discharge and improper disposal.** *DEP Note: If "0" is reported in Column C for the first reporting item, please include an explanation in Column F for why no proactive inspections were performed. In addition, the permittee should re-word the "NOVs / warning letters / citations issued" reporting item to more accurately reflect its particular initial enforcement activity, if necessary.* *DEP Note: Proactive inspections may include, for example, suspect areas (e.g., industrial areas), commercial businesses (e.g., restaurants, car washes, service stations, laundries / dry cleaners, auto body shops, mobile carpet cleaners) or temporary activities (e.g., special events / fairs / circus) that would not otherwise be inspected during routine inspections and maintenance of the MS4, in association with high risk industrial facilities or construction sites, or in response to citizen or staff reports.* *DEP Note: Polk County is to report ONLY the proactive inspections it performed in the unincorporated areas of Polk County – any proactive inspections it*				

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	performed in the co-permittees' jurisdictions are to be reported by the co-permittees. Each co-permittee is to report the Polk County proactive inspections done in their jurisdiction separately from the proactive inspections that the co-permittee performed itself. *DEP Note: Refer to Part III.A.7.c of the permit for what must be included in the written proactive inspection program plan. Please provide the title of the attached plan in Column D and the name of the entity who finalized the plan in Column E.*				
	Proactive inspections performed by Polk County on behalf of a co-permittee for suspected illicit discharges / connections / dumping	22	City of Bartow Public Works	Polk County Mike Ferguson	All facilities in compliance.
	Proactive inspections performed by the permittee for suspected illicit discharges / connections / dumping	60	City of Bartow Public Works	City of Bartow Public Works	Handled with no formal enforcement.
	Illicit discharges / connections / dumping found during a proactive inspection	2	City of Bartow Public Works	City of Bartow Public Works	Hack Lake - Handled with no formal enforcement.
	Notices of Violation (NOVs) / warning letters / citations issued for illicit discharges / connections / dumping found during a proactive inspection	2	City of Bartow Public Works	City of Bartow Public Works	Hack Lake - Handled with no formal enforcement.
	Fines issued for illicit discharges / connections / dumping found during a proactive inspection	0	City of Bartow Public Works	City of Bartow Public Works	City of Bartow is in the process of implementing a new ordinance.
	Year 1 ONLY: Attach the written proactive inspection program plan				
	Annually review (and revise, as needed) and implement the permittee's written procedures to conduct reactive investigations to identify and eliminate the source(s) of illicit discharges, illicit connections or improper disposal to the MS4, based on reports received from permittee personnel, contractors, citizens, or other entities regarding suspected illicit activity. 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. If a permittee relies on Polk County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County shall make available) the necessary annual report information from the County. *DEP Note: If the number of reports received differs from the number of reactive investigations, please provide an explanation for the discrepancy in Column F. In addition, the permittee should re-word the "NOVs / warning letters / citations issued" reporting item to more accurately reflect its particular initial enforcement activity, if necessary.*				
	Reports received by Polk County of suspected illicit connections / discharges / dumping received	2	City of Bartow Public Works	City of Bartow Public Works	Handled with no formal enforcement.
	Reports received by the permittee of suspected illicit connections / discharges / dumping received	9	City of Bartow Public Works	City of Bartow Public Works	Handled with no formal enforcement.
	Reactive investigations of reports of suspected illicit discharges/ connections / dumping	11	City of Bartow Public Works	City of Bartow Public Works	Handled with no formal

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					enforcement.
	Illicit discharges / connections / dumping found during a reactive investigation	11	City of Bartow Public Works	City of Bartow Public Works	Handled with no formal enforcement
	Notices of Violation (NOVs) / warning letters / verbal warning / dumping found during a reactive investigation	11	City of Bartow Public Works	City of Bartow Public Works	Handled with no formal enforcement.
	Fines issued for illicit discharges / connections / dumping found during a reactive investigation	0	City of Bartow Public Works	City of Bartow Public Works	City of Bartow is in the process of implementing a new ordinance.
	During Year 1 of the permit, develop and implement a written plan for the training of all appropriate permittee personnel (including field crews, fleet maintenance staff, and inspectors) and contractors to identify and report conditions in the stormwater facilities that may indicate the presence of illicit discharges / connections / dumping to the MS4. Refresher training shall be provided annually. Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training). **The City of Bartow staff performs training during City of Bartow Public Works safety meeting which consists of 30 employees.** *DEP Note: If "0" is reported for either reporting item, please include in Column F an explanation of why training was not provided to / obtained by personnel and contractors during the applicable reporting year, the most recent year that training was previously provided / obtained, and the names of the personnel and contractors previously trained.*					
		Initial Training	**Refresher Training**			
	Personnel trained	2	36	N/A	City of Bartow Public Works	City of Bartow Public Works	All Public Works staff
	Contractors trained	5	0	N/A	Pre-construction meetings	City of Bartow Public Works	Illicit discharge and BMP's are discussed at all pre construction meetings. City staff performs Training under Sedimentation class.
Part III.A.7.d	**Illicit Discharges and Improper Disposal — Spill Prevention and Response**					
	Annually review (and revise, as needed) and implement the permittee's written spill-prevention/spill-response plan and procedures to prevent, contain, and respond to spills that discharge into the MS4. Report on the spill prevention and response activities, including the number of spills addressed. If a permittee relies on the Polk County Fire Rescue or Fire Services Division to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County Fire Rescue/Fire Services Division shall make available) the necessary annual report information from the County. *DEP Note: The permittee may report the number of hazardous material spills separately from the number of non-hazardous material spills, or report one combined number, to more accurately reflect its tracking of these spills.*					

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	Hazardous and non-hazardous material spills responded to	2	City of Bartow Public Works spill report	City of Bartow Public Works	All oil spills were under the state warning report limit and were cleaned up by in house staff.
	During Year 1 of the permit, develop and implement a written plan for the training of all appropriate permittee personnel (including field crews, firefighters, fleet maintenance staff and inspectors) and contractors on proper spill prevention, containment, and response techniques and procedures. Refresher training shall be provided annually. Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training). *DEP Note: If "0" is reported for either reporting item, please include in Column F an explanation of why training was not provided to / obtained by personnel and contractors during the applicable reporting year, the most recent year that training was previously provided / obtained, and the names of the personnel and contractors previously trained.*				
	Personnel trained — Initial Training: 2; Refresher Training: 45	1	City of Bartow Public Works	City of Bartow Public Works	Public Works Staff safety meeting and Fire Dept.
	Contractors trained	4	0	4	City of Bartow Public Works	City of Bartow Public Works	Preconstruction Meetings.
Part III.A.7.e	**Illicit Discharges and Improper Disposal — Public Reporting**				
	During Year 1 of the permit, develop and implement a written public education and outreach program plan to promote, publicize, and facilitate public reporting of the presence of illicit discharges and improper disposal of materials into the MS4. 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, the percentage of the population reached by the activities in total, and the number of Web site visits (if applicable). *DEP Note: The permittee should "customize" the list of public outreach activities by removing items or adding items to the list below as appropriate to their particular public outreach program. However, the reporting item of "Estimated percentage of the population reached by the activities in total" must remain. The permittee may add more specifics to the reporting items, such as the name of the brochure or newsletter distributed. If "0" is reported in Column C for all the reporting items, please include in Column F an explanation for why no outreach was performed.* *DEP Note: Polk County is to report the public education and outreach activities that it performed county-wide (and not just in the unincorporated areas of Polk County). The co-permittees are to report just the public education and outreach activities that they performed.*				
	Estimated percentage of the population reached by the activities in total	40%	City Hall/Public Works Office	City of Bartow	Posted in City Hall and Public Works and all Educational events.
	Brochures/Flyers/Fact sheets distributed	550	City Hall/Public	City of Bartow	Posted at City

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	Public displays (e.g., kiosks, storyboards, posters, etc.)	3	City Hall/Public Works Office	City of Bartow	Posted at City Hall and Educational events.
	School presentations: Number conducted	NA	NA	NA	NA
	School presentations: Number of participants	NA	NA	NA	NA
	Seminars/Workshops: Number conducted	5	City of Bartow Public Works	City of Bartow	Safety Meeting, Sedimentation Training, Supervisor Training
	Seminars/Workshops: Number of participants	105	City of Bartow Public Works	City of Bartow	Safety Meeting, Sedimentation Training
	Web Site: Number of visitors to the stormwater-related pages	1	www.cityofbartow.net	City of Bartow Public Works	Can Not track how many hits.
Part III.A.7.f	**Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control**				
	During Year 1 of the permit, develop and implement a written public education and outreach program plan to encourage the proper use and disposal of used motor vehicle fluids, leftover hazardous household products, and lead acid batteries. 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, the percentage of the population reached by the activities in total, and the number of Web site visits (if applicable). *DEP Note: The permittee should "customize" the list of public outreach activities by removing items or adding items to the list below as appropriate to their particular public outreach program. However, the reporting items of "Estimated percentage of the population reached by the activities in total" and "Household Chemical Collection Center Program: Amount of waste collected / recycled / properly disposed (tons)" must remain. The permittee may add more specifics to the reporting items, such as the name of the brochure or newsletter distributed. If "0" is reported in Column C for all the reporting items, please include in Column F an explanation for why no outreach was performed.* *DEP Note: Polk County is to report the public education and outreach activities that it performed county-wide (and not just in the unincorporated areas of Polk County). The co-permittees are to report just the public education and outreach activities that they performed.* **Solid Waste Department provides public outreach regarding recycling, disposal of used oil and household hazardous materials.**				
	Estimated percentage of the population reached by the activities in total	1	City of Bartow Public Works	Solid Waste	Hazardous Waste Event
	Household Chemical Collection Center Program: Amount of waste collected / recycled / properly disposed (tons)	17	City of Bartow Solid Waste	Solid Waste	Hazardous Waste Event
	Household Chemical Collection Center Program: Events	1	City of Bartow Public	Solid Waste	Hazardous

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			Works email		Waste Event
	Household Hazardous Waste Materials Guides distributed	97	City of Bartow Public Works	City Hall and Public Works Office	Flyers are displayed in City Hall and Public Works Office
	Brochures/Flyers/Fact sheets distributed	97	City of Bartow Public Works	City Hall and Public Works office	Flyers are displayed in City Hall and Public Works Office
	Neighborhood presentations: Number conducted	1	City of Bartow Public Works	City Hall and Public Works office	Flyers are displayed in City Hall and Public Works Office
	Neighborhood presentations: Number of participants	97	City of Bartow Public Works	City Hall and Public Works office	Flyers are displayed in City Hall and Public Works Office
	Newspapers & newsletters: Number of articles/notices published	1	City of Bartow Public Works	City Hall and Public Works office	Flyers are displayed in City Hall and Public Works Office
	Newsletters: Number of newsletters distributed	1	City of Bartow Public Works	City Hall and Public Works office	Flyers are displayed in City Hall and Public Works Office
	Public displays (e.g., kiosks, storyboards, posters, etc.)	1	City of Bartow Public Works	City Hall and Public Works office	Flyers are displayed in City Hall and Public Works Office
	Web Site: Number of visitors to the stormwater-related pages	17	City of Bartow Public Works	City Hall and Public Works office	Unable to track hits
Part III.A.7.g	**Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage**				
	Annually review (and revise, as needed) and implement the permittee's written procedures to reduce or eliminate sanitary wastewater contamination into the MS4, including discharges to the MS4 from sanitary sewer overflows (SSOs) and from inflow / infiltration from collection / transmission systems and/or septic tank systems. Advise the appropriate utility owner of a violation if constituents common to wastewater contamination are discovered in the MS4. 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. *DEP Note: The permittee needs to "customize" this section as it pertains to the type of activities undertaken to reduce or eliminate SSOs and inflow / infiltration into the MS4. The first five reporting items below are examples.*				

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	DEP Note: The permittee should contact the appropriate authorities for accurate reporting information, such as the sanitary sewer system operator who is responsible for investigating and eliminating SSOs and the local health department who is responsible for permitting / overseeing septic tank systems. *DEP Note: Report only the SSOs and inflow / infiltration incidents into the MS4.*				
	Activity to reduce/eliminate SSOs and inflow / infiltration: Sanitary sewer pipe inspected for infiltration (linear feet)	73083	City of Bartow Video Log Book	City of Bartow TCS	20 miles of pipe are proposed to be inspected yearly.
	Activity to reduce/eliminate SSOs and inflow / infiltration: Sanitary sewer pipe sealed, lined, and / or replaced (linear feet)	340	City of Bartow one call logs and vac con logs.	City of Bartow TCS	Repairs are completed by in house staff.
	Activity to reduce/eliminate SSOs and inflow / infiltration: Sanitary sewer line breaks repaired	31	City of Bartow Work Orders	City of Bartow TCS	Repairs are completed by in house staff.
	Activity to reduce/eliminate SSOs and inflow / infiltration: Septic systems removed	N/A	PCHD-DOH Septic Tank Database	Polk County Health Department	Septic Tank Function is monitored by Polk County Health Department and Polk County
	Activity to reduce/eliminate SSOs and inflow / infiltration: Emergency generator added	0	N/A	N/A	No generators added.
	SSO incidents discovered	14	City of Bartow one call logs and vac con logs.	City of Bartow TCS	City of Bartow TCS only, no records received from Health Dept.
	SSO incidents resolved	14	City of Bartow one call logs and vac con logs.	City of Bartow TCS	City of Bartow TCS only, no records received from Health Dept..
	Name of owner of the sanitary sewer system	**City of Bartow**			
Part III.A.8.a	**Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections**				
	Continue to maintain an up-to-date inventory of all existing high risk facilities discharging into the permittee's MS4. The inventory shall identify the outfall and surface water body into which each high risk facility discharges. For the purposes of this permit, high risk facilities include: • Operating municipal landfills;				

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- Hazardous waste treatment, storage, disposal and recovery facilities;
- Facilities that are subject to EPCRA Title III, Section 313 (also known as the Toxics Release Inventory (TRI) maintained by the U.S. EPA); and
- Any other industrial or commercial discharge that the permittee determines is contributing a substantial pollutant loading to the permittee's MS4. This could include facilities identified through the proactive inspection program as per Part III.A.7.c of the permit.

Report on the high risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year. If a permittee relies on Polk County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County shall make available) the necessary annual report information from the County.

DEP Note: The TRI is updated every spring / summer by the U.S. EPA at www.epa.gov/triexplorer. Select "Facility" on the left, chose your Geographic Location, and then select "Generate Report." Please indicate in Column F when (month / year) you last checked EPA's TRI for applicable facilities.

During Year 1 of the permit, develop and implement a written plan for conducting inspections of high risk facilities to determine compliance with all appropriate aspects of the stormwater program. While the permittee may determine the order and frequency of the inspections, the permittee shall inspect each identified facility at least once during the permit term; however, facilities identified as high risk due to the findings of the proactive inspection program as per Part III.A.7.c of the permit shall be inspected annually. Report on the high risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken. If a permittee relies on Polk County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County shall make available) the necessary annual report information from the County.

DEP Note: If "0" is reported for the number of inspections conducted and the permittee has one or more high risk facilities, please provide an explanation in Column F for why no inspections were conducted. In addition, the permittee should re-word the "NOVs / warning letters / citations issued" reporting item to more accurately reflect its particular initial enforcement activity, if necessary.

DEP Note: Polk County is to report ONLY the inventory of high risk facilities in the unincorporated areas of Polk County – the inventory of high risk facilities located in the co-permittees' jurisdictions are to be reported by the co-permittees. Likewise, the County is to report ONLY the high risk facility inspections it performed in the unincorporated areas of Polk County – any high risk facility inspections it performed in the co-permittees' jurisdictions are to be reported by the co-permittees. Each co-permittee is to obtain the necessary information from Polk County that pertains to its jurisdiction.

	Number of Facilities	Number of Inspections	For violations discovered during a high risk inspection				
			Fines issued	Notices of Violation (NOVs) / warning letters / citations issued			
Total high risk facilities	**2**	**2**	0	0	City of Bartow Public Works	City of Bartow Public Works	City of Bartow Public Works
New high risk facilities added to the inventory during the current reporting period	**0**				NA	NA	NA
Operating municipal landfills	**1**	**100**	0	0	City of Bartow Solid Office	City of Bartow Solid Waste Dept.	Cedar Trail
Hazardous waste treatment, storage, disposal	**0**	**0**	0	0	NA	NA	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**
	and recovery (HWTSDR) facilities							
	EPCRA Title III, Section 313 facilities (that are not landfills or HWTSDR facilities)	**0**	**0**	0	0	NA	NA	N/A
	Facilities determined as high risk by the permittee through the proactive inspections as per Part III.A.7.c	**10**	**24**	0	0	City of Bartow Public Works	City of Bartow	Pallet Co, Budget Auto, Truss, Orange Plant, Ethanol, Golf Course, Car Wash, WWTF, Fleet, Solid Waste
	Other facilities determined as high risk by the permittee (that are not facilities identified through the proactive inspections)	**0**	**0**	0	0	NA	NA	N/A
Part III.A.8.b	**Industrial and High-Risk Runoff — Monitoring for High Risk Industries**							
	Sampling of the discharge to the stormwater system may be required on an as-needed basis in the event that inspections of high-risk facilities disclose suspected illicit discharges to the MS4. New high-risk industrial facilities as defined in 40 CFR 122.26(d)(2)(iv)(C) must be evaluated to determine if the new discharge is contributing a substantial pollutant load to the MS4. The evaluation may include site-specific monitoring. Report the number of high risk facilities sampled. If a permittee relies on Polk County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County shall make available) the necessary annual report information from the County. *DEP Note: Polk County is to report ONLY the number of high risk facilities in the unincorporated areas of Polk County that were sampled – the high risk facilities located in the co-permittees' jurisdictions that were sampled by the County are to be reported by the co-permittees.*							
	High risk facilities sampled				26	City of Bartow Public Works	City of Bartow	No violations were recorded by Polk County Natural Resources.
Part III.A.9.a	**Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices**							
	Continue to implement the local codes or land development regulations and the written pre-construction site plan review procedures that require the use and maintenance of appropriate structural and non-structural erosion and sedimentation controls during construction to reduce the discharge of pollutants to the MS4. Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved. *DEP Note: Please provide an explanation in Column F for any "0" reported in Column C.*							
	PERMITTEE SITES: Construction site plans reviewed				1	City of Bartow Public Works	City of Bartow	Wildwood
	PERMITTEE SITES: Construction site plans approved				1	City of Bartow Public Works	City of Bartow	Wildwood
	PRIVATE SITES: Construction site plans reviewed				5	City of Bartow	City of Bartow	All In Wood,

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			Public Works	staff	Ferguson, RK, Bartow Middle, Union Academy
	PRIVATE SITES: Construction site plans approved	5	City of Bartow Public Works	City of Bartow staff	All In Wood, Ferguson, RK, Bartow Middle, Union Academy
	Annually review (and revise, as needed) and implement the permittee's written procedures to notify all new development / redevelopment permit applicants of the need to obtain all required stormwater permits. Report the number of new development/redevelopment permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage. *DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. If the number of applicants notified of ERP or CGP coverage is less than the number of construction site plans reviewed, please provide an explanation for the discrepancy in Column F.*				
	Notified of ERP stormwater permit requirements	5	City Bartow Planning	City of Bartow	All permit applications are notified of ERP CGP permits as part of the DRC approval.
	Confirmed ERP coverage	5	City Bartow Planning	City of Bartow	Pre construction meetings inform contractor of permits and inspections.
	Notified of CGP stormwater permit requirements	5	City Bartow Public Works	City of Bartow	Notified prior to approval of permit.
	Confirmed CGP coverage	5	City Bartow Public Works	City of Bartow	Confirm ERP prior to approval.
Part III.A.9.b	**Construction Site Runoff — Inspection and Enforcement**				
	As an attachment to the Year 1 Annual Report, the permittee shall submit a written plan that details the standard operating procedures for implementation of the stormwater, erosion and sedimentation inspection program for construction sites discharging stormwater to the MS4. The permittee shall implement the plan for inspecting construction sites immediately upon written approval by the Department. Prior to Department approval, the permittee shall continue to perform inspections in accordance with its previously developed construction site inspection procedures. 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. *DEP Note: If "0" is reported in Column C for the number of inspections conducted, please provide an explanation in Column F of why no inspections were conducted. If the number of inspections reported is equal to or less than the number of active construction sites, or the percentage inspected is less than 100%, please provide an explanation in Column F. In addition, the permittee should re-word the "NOVs / warning letters / citations issued" reporting item to more accurately reflect its particular initial enforcement activity, if necessary.*				

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	DEP Note: Refer to Part III.A.9.b of the permit for what must be included in the construction site inspection program plan. Please provide the title of the attached plan in Column D and the name of the entity who finalized the plan in Column E.				
	PERMITTEE SITES: Active construction sites	55	City Bartow TCS Orders and Public Works	City of Bartow Public Works	51 sites are routine maintenance and are under one acre and performed by in house staff.
	PERMITTEE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs	161	City Bartow TCS Work Orders	City of Bartow Public Works	Hack, Ruth, Bear and Wildwood were inspected once a week and after every .50 in. rain.
	PERMITTEE SITES: Percentage of active construction sites inspected	100%	City Bartow TCS Work Orders	City of Bartow Public Works	51 sites are routine maintenance and are under one acre and constructed by in house staff. Hack, Ruth, Bear and Wildwood were inspected once a week and after every .50 in. rain.
	PRIVATE SITES: Active construction sites	9	City of Bartow Public Works	City of Bartow Public Works	Union Academy, Bartow Middle, St. Thomas, St. Johns, ACT, Ashley Glen,RK Summer, Magnolia, Polk State
	PRIVATE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs	104	City Bartow Public Works	City of Bartow	Inspected once a week and after every .50 in. rain.
	PRIVATE SITES: Percentage of active construction sites inspected	100%	City Bartow Public	City of Bartow	Bear Creek,

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			Works		Magnolia, St. Johns, Polk State, FDOT, Wildwood
	Red Tags issued	0	City Bartow Public Works	City of Bartow	No discharge offsite.
	Notices of Violation (NOVs) issued	2	City Bartow Public Works	City of Bartow	Corrective action performed without formal notice. Hack Lake
	Stop Work Orders issued		NA	NA	NA
	Fines issued		NA	NA	NA
	Year 1 ONLY: Attach the written construction site inspection program plan		NA	NA	NA
Part III.A.9.c	**Construction Site Runoff — Site Operator Training**				

During Year 1 of the permit, develop and implement a written plan for stormwater training / outreach for construction site plan reviewers, site inspectors and site operators. Provide training for permittee personnel (employed by or under contract with the permittee) involved in the site plan review, inspection or construction of stormwater management, erosion, and sedimentation controls. Also provide training for private construction site operators. All permittee inspectors (employed by or under contract with the permittee) of construction sites shall be certified through the Florida Stormwater, Erosion and Sedimentation Control Inspector Training program, or an equivalent program approved by the Department. Refresher training shall be provided annually. Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training), and the number of private construction site operators trained by the permittee.

DEP Note: If "0" is reported for any of these reporting items, please include in Column F an explanation of why training was not provided to / obtained by the permittee's staff and private construction site operators during the applicable reporting year.

DEP Note: The permittee should report only the number of staff and private construction site operators trained / certified during the applicable reporting year, and then note in Column F the number of staff who were previously trained / certified. Private site operator training can include pre-construction meetings.

	Inspector Certification Training	Non-Inspector Initial Training (non-certification)	Refresher Training				
Permittee construction site inspectors	7		7		Sediment and Erosion Control and Safety Meeting	City of Bartow Public Works Staff	Rebecca Baker City of Bartow staff is certified to assist in training the Sediment and Erosion class with Polk County.
Permittee construction		1			City Bartow Public	City of Bartow	All inspections

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**
	site plan reviewers					Works	Staff	are performed by Public Works staff that are trained.
	Permittee construction site operators		**16**			City Bartow Public Works	City of Bartow Staff	Rebecca Baker City of Bartow staff is certified to assist in training the Sediment and Erosion class with Polk County.
	Private construction site operators		**5**			City Bartow Public Works	City of Bartow Staff	Pre construction meetings.

SECTION VIII. EVALUATION OF THE STORMWATER MANAGEMENT PROGRAM (SWMP)		
	Permit Citation/ SWMP Element	**SWMP EVALUATION**
A.	**Part II.A.1 Structural control inspection and maintenance**	Strengths: Quality control of run off has increased with educating staff on how to control water levels in lakes.
		Weaknesses: Structural controls require daily maintenance to control elevation of lakes.
		SWMP Revisions to address deficiencies: 2 Lakes have been dredged with 4 lakes scheduled for 2016.
	Part II.A.2 Significant redevelopment	Strengths: Having all stormwater staff certified in Sedimentation and Erosion Control is allowing for an increase in site development inspections.
		Weaknesses: Need to improve the Technical Specifications to increase the Land Development Code to require a pre-post match of both rate and volume of stormwater runoff.
		SWMP Revisions to address deficiencies: Need to include additional training with the Codes Department to be aware of possible storm water violations.
	Part II.A.3 Roadways	Strengths: City of Bartow has all roads swept within quadrants on a regular basis. In addition to a weekly inspection of problem areas and top inlets.
		Weaknesses: Need to have more detail from various Departments on how much material is recycled that is removed from roadways.
		SWMP Revisions to address deficiencies: Prepare City wide form to track recycle material.
	Part II.A.4 Flood control	Strengths: 2 Lakes have been dredged and 4 lakes are scheduled for dredging in 2016. This should assist in retaining run off and assist with flooding.
		Weaknesses: Sweeper and Vac Con require high maintenance which decreases the amount of leaves and sediment discharged into pipes.
		SWMP Revisions to address deficiencies: Budget for the purchase of a new vac con and possible sweeper.
	Part II.A.5 Waste TSD Facilities	Strengths: N/A
		Weaknesses:N/A
		SWMP Revisions to address deficiencies/A
	Part II.A.5 Waste TSD Facilities	Strengths:N/A
		Weaknesses:N/A
		SWMP Revisions to address deficiencies/A
	Part II.A.6 Pesticide, herbicide, fertilizer	Strengths: Golf course uses Green Fertilizer and the City has an adopted Friendly Fertilizer ordinance.
		Weaknesses: Need to develop a public education program to encourage green landscaping.

SECTION VIII. EVALUATION OF THE STORMWATER MANAGEMENT PROGRAM (SWMP)		
	application	SWMP Revisions to address deficiencies: Increase public education with local Parks and Recreation Program.
	Part II.A.7 Illicit Discharge Detection and Elimination	Strengths: City has 7 staff that are certified in sediment and erosion control. All construction sites are inspected above the required inspections.
		Weaknesses: Code enforcement does not have a citation process that will allow the City to charge a fee for discharges.
		SWMP Revisions to address deficiencies: In the process of implementing a Citation specifications. Also, will begin the process of "WALK THE WBID".
	Part II.A.8 High Risk Industry Runoff	Strengths: City of Bartow conducts their own high risk facilities inspection. All facilities have their own individual inspection protocol in addition to the City of Bartow staff inspecting facility.
		Weaknesses: Increase follow up inspection.
		SWMP Revisions to address deficiencies: Increase number of inspections and have more frequent in house staff training.
	Part II.A.9 Construction Site Runoff	Strengths: The City has seven staff members that have stormwater erosion control certification which monitor sites on a daily basis.
		Weaknesses: Ensure staff is making recommendations to contractors immediately upon violations.
		SWMP Revisions to address deficiencies: Increase e inhouse construction project inspections that fall under the one acre permitting rule.

SECTION IX. 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.** *DEP Note: There may be changes deemed necessary after developing / reviewing your plans and SOPs as per Part III.A of the permit, after completing your SWMP evaluation as per Part VI.B.2 of the permit, or due to a TMDL / BMAP as per Part VIII.B of the permit.*
		No Changes Requested.
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)** *DEP Note: There may be changes deemed necessary after developing / reviewing your plans and SOPs as per Part III.A of the permit, after completing your SWMP evaluation as per Part VI.B.2 of the permit, or due to a TMDL / BMAP as per Part VIII.B of the permit.*
		No Changes Requested

CHECKLIST A: ATTACHMENTS TO BE SUBMITTED WITH THE ANNUAL REPORTS

Below is a list of items required by the permit that may need to be attached to the annual report. Please check the appropriate box to indicate whether the item is attached or is not applicable for the current reporting period. Please provide the number and the title of the attachments in the blanks provided.

Attached	N/A	Rule / Permit Citation	Required Attachment	Attachment Number	Attachment Title
☐	X	Part II.F	**EACH ANNUAL REPORT:** If program resources have decreased from the previous year, a discussion of the impacts on the implementation of the SWMP.		
☐	X	Part III.A.1	**EACH ANNUAL REPORT:** An explanation of why the minimum inspection frequency in Table II.A.1.a was not met, if applicable.		
☐	X	Part III.A.4	**EACH ANNUAL REPORT:** 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.		
☐	X	Part III.A.7.a	**EACH ANNUAL REPORT:** A report on amendments / changes to the legal authority to control illicit discharges, connections, dumping, and spills, if applicable.		
☐	X	Part V.B.9	**EACH ANNUAL REPORT:** Reporting and assessment of monitoring results. **[Also addressed in Section III of the Annual Report Form]**		
☐	X	Part VI.B.2	**EACH ANNUAL REPORT**: An evaluation of the effectiveness of the SWMP in reducing pollutant loads discharged from the MS4 that, at a minimum, must include responses to the questions listed in the permit.		
☐	X	Part VIII.B.3.e	**EACH ANNUAL REPORT**: A status report on the implementation of the requirements in this section of the permit and on the estimated load reductions that have occurred for the pollutant(s) of concern.		
X	☐	Part VIII.B.4.f	**EACH ANNUAL REPORT after approval of the BPCP:** The status of the implementation of the Bacterial Pollution Control Plan (BPCP).	1	BPCP FY 2014-2015
☐	X	Part III.A.1	**YEAR 1:** An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM).		
☐	X	Part III.A.3	**YEAR 1:** If have curbs and gutters but no street sweeping program, an explanation of why no street sweeping program and the alternate BMPs used or planned.		
☐	X	Part III.A.6	**YEAR 1 or YEAR 2:** A copy of the adopted Florida-friendly Ordinance, if applicable.		
☐	X	Part III.A.7.c	**YEAR 1:** A proactive illicit discharge / connection / dumping inspection program plan.		
☐	X	Part III.A.9.b	**YEAR 1:** A construction site inspection program plan. **[For approval by DEP]**		
☐	X	Part III.A.2	**YEAR 2:** A summary report of a review of codes and regulations to reduce the stormwater impact from new development / redevelopment.		
X	☐	Part V.A.2	**YEAR 3:** Estimates of annual pollutant loadings and EMCs, and a table comparing the current calculated loadings with those from the previous two Year 3 ARs.	2	Estimate of Annual Pollutant Loading Comparison
☐	X	Part III.A.2	**YEAR 4:** A follow-up report on plan implementation of changes to codes and regulations to reduce the stormwater impact from new development / redevelopment.		
☐	X	Part V.A.3	**YEAR 4:** If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate.		
☐	X	Part V.B.3	**YEAR 4:** The monitoring plan (with revisions, if applicable).		

☐	X	Part VII.C	**YEAR 4:** An application to renew the permit.		
☐	X	Part VIII.B.3.d	**YEAR 4:** A TMDL Implementation Plan / Supplemental SWMP.		

CHECKLIST B: THE REQUIRED ANNUAL REVIEWS OF WRITTEN STANDARD OPERATING PROCEDURES (SOPs) & PLANS

The permit requires annual review, and revision if needed, of written Standard Operating Procedures (SOPs) and plans (e.g., public education and outreach, training, inspections). Please indicate your review status below. **If you have made revisions that need DEP approval, you must complete Section VIII.A of the annual report.**

Did not complete review of existing SOP / Plan	Developed new written SOP / Plan	Reviewed & no revision needed to existing SOP / Plan	Reviewed & revised existing SOP / Plan	Permit Citation	Description of Required SOPs / Plans
☐	☐	☐	X	Part III.A.1	SOP and/or schedule of inspections and maintenance activities of the structural controls and roadway stormwater collection system.
☐	☐	☐	X	Part III.A.2	SOP for development project review and permitting procedures and/or local codes and regulations for new development / areas of significant development.
☐	☐	☐	X	Part III.A.3	SOP for the litter control program.
☐	☐	☐	X	Part III.A.3	SOP for the street sweeping program.
☐	☐	☐	X	Part III.A.3	SOP for inspections of equipment yards and maintenance shops that support road maintenance activities.
☐	☐	☐	X	Part III.A.5	SOP for inspections of waste treatment, storage, and disposal facilities not covered by an NPDES stormwater permit.
☐	☐	☐	X	Part III.A.6	Plan for public education and outreach on reducing the use of pesticides, herbicides and fertilizer.
☐	☐	☐	X	Part III.A.6	SOP for reducing the use of pesticides, herbicides and fertilizer, and for the proper application, storage and mixing of these products.
☐	☐	☐	X	Part III.A.7.c	Plan for proactive illicit discharge / connections / dumping inspections.*
☐	☐	☐	X	Part III.A.7.c	SOP for reactive illicit discharge / connections / dumping investigations.
☐	☐	☐	X	Part III.A.7.c	Plan for illicit discharge training.
☐	☐	☐	X	Part III.A.7.d	SOP for spill prevention and response efforts.
☐	☐	☐	X	Part III.A.7.d	Plan for spill prevention and response training.
☐	☐	☐	X	Part III.A.7.e	Plan for public education and outreach on how to identify and report the illicit discharges and improper disposal to the MS4.
☐	☐	☐	X	Part III.A.7.f	Plan for public education and outreach on the proper use and disposal of oils, toxics and household hazardous waste.
☐	☐	☐	X	Part III.A.7.g	SOP to reduce / eliminate sanitary wastewater contamination of the MS4.
☐	☐	☐	X	Part III.A.8	SOP for inspections of high risk industrial facilities.
☐	☐	☐	X	Part III.A.9.a	SOP for construction site plan review for stormwater, erosion and sedimentation controls, and ERP and CGP coverage.
☐	☐	☐	X	Part III.A.9.b	Plan for inspections of construction sites.*
☐	☐	☐	X	Part III.A.9.c	Plan for stormwater, erosion and sedimentation BMPs training.

*** Revisions to these plans require DEP approval – please complete Section VIII.A of the annual report.**

REMINDER LIST OF THE TMDL / BMAP REPORTS TO BE SUBMITTED SEPARATELY FROM AN ANNUAL REPORT		
Rule / Permit Citation	**Report Title**	**Due Date**
Part VIII.B.3.a	**6 MONTHS from effective date of permit:** TMDL Prioritization Report.	3/12/12
Part VIII.B.3.b	**12 MONTHS from effective date of permit:** TMDL Monitoring and Assessment Plan.	8/1/2013
Part VIII.B.3.c	**6 MONTHS from receiving analyses from the lab:** TMDL Monitoring Report.	TBD
Part VIII.B.4	**30 MONTHS from start date per TMDL Prioritization Report:** A Bacterial Pollution Control Plan (BPCP).	TBD

BMAP Reporting

MS4 permittees are NOT required to submit the annual report required by any BMAP that applies to them since the NPDES Stormwater Staff can obtain them from the department's Watershed Planning and Coordination staff. However, to assure that the stormwater staff are aware of which BMAPs apply to the MS4 permittees and when the latest BMAP annual report was submitted, please complete the information below, if applicable:

Rule/Permit Citation	BMAP Title	Date BMAP Annual Report Submitted to DEP
Part VIII.B.2		
Part VIII.B.2		
Part VIII.B.2		
Part VIII.B.2		

END OF REVISED TAILORED MS4 AR FORM
CYCLE 3 PERMIT

ATTACHMENT 1 – BPCP FY 2014 - 2015

CITY OF BARTOW NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM

MUNICIPAL STORMWATER PROGRAM

TOTAL MAXIMUM DAILY LOAD

BACTERIA POLLUTION CONTROL PLAN

FOR THE PEACE RIVER ABOVE BOWLEGS CREEK

October 2013 – September 2014

Prepared by: Rebecca Baker

City of Bartow, Public Works, Stormwater Division

300 East Church Street

IMPLEMENTATION OF BACTERIAL POLLUTION CONTROL PLAN

Illicit Discharge Detection and Elimination programs:

Illicit Discharge Detection and Elimination program is required under the existing NPDES permit. Illicit discharge is any discharge into a storm drain system which is not composed of entirely of stormwater, such as:

1. Petroleum products, including but not limited to oil, gasoline, grease, fuel oil, and heating oil.
2. Trash or debris
3. PET WASTE
4. Chemicals
5. Paints
6. Steam Cleaning Wastes
7. Restaurant Grease
8. Soaps and detergents
9. Chlorinated water and chlorine
10. SANITARY SEWER
11. Sediment, silt, sand
12. Recreationsl vehicle wastes

Water Quality Complaint Investigations:

City of Bartow has several staff members who are certified Sediment and Errosion Control inspectors that monitor and maintain compliance under the Illicit Disharge proactive inspection requirements. All City of Bartow staff are aware of the severity of reporting any illicit discharge to approiate staff in accordance with the proactive dry weather requirements. All staff are aware to respond to high priority cases, such as potential discharges of sanitary sewage are inspected immediately upon the receipt of call. Response and documentation may consist of calling immediate supervisor, state warning point, phone calls, emails and site visits. All illicit discarges require an inspection form to be completed by the approriate department in accordance with the proactive illicit discharge policy.

Dry Weather Field Screening:

Dry weather screening is performed to identify illicit discharge to the MS4 during dry months. Monthly and Annual inspections are performed on all pipes within the City of Bartow. In addition, as part of the Proactive Inspection policy all storm pipes which have a sanitary sewer pipe system that runs through the storm pipes are inspected annually. The City of Bartow has several lakes and ponds that are monitored on a monthly basis and if an illicit discharge is discovered all required forms and notifications are submitted to the Stormwater Division.

Monitoring and Implementation:

Weekly and monthly monitoring is completed by certified stormwater inspectors who inspect all open ditch systems, inlets and piped systems. The areas that are most probable for illicit discharge are recorded on the appropriate form. The inspection form is required to have initials of the inspector and a work order is created if additional maintenance and follow up is required.

Implementation may also require the coordination with other departments and divisions within the City of Bartow. Follow up inspections, phone calls, emails are conducted to document voluntary compliance and continue compliance. Should a responsible party or department staff fail to correct an apparent violation in a timely manner the City of Bartow Codes Department is notified and an investigation report will be developed and enforced. The City is in the process of implanting fines for violations.

Public Education:

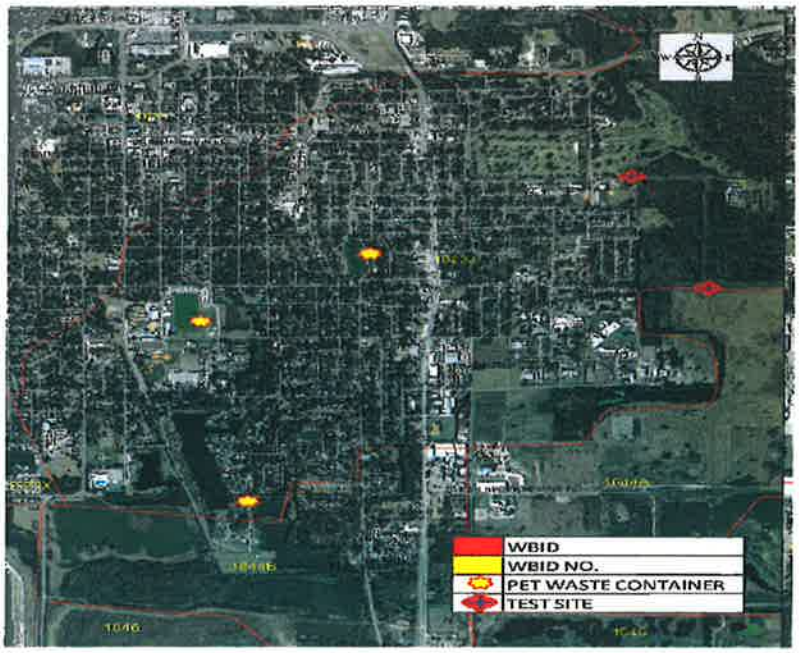
City of Bartow is required as part of our MS4 permit to provide education to the Public regarding bacteria pollution. City of Bartow staff and Polk County Natural Resources have had several educational "Pick up your Pets Poop" events. In addition, flyers and pet waste key chains are given out at every event.

On October 12, 2013 the City hosted a Costume contest for pets to encourage owners to pick up pet waste. The picture above is the winner of the costume contest. The City of Bartow has also installed three pet waste stations at parks to assist in the decrease of the discharge of fecal coliform.

In addition, an outreach between the City of Bartow and Circle B Ranch/ Polk County provided education to over 500 students during the summer of 2014. The image below is an event that the City of Bartow staff provided education to the students on illicit discharge and pet waste. The City of Bartow constructed a mobile stormwater display that was utilized to educate students and residents.

Ambient Water Quality and Stormwater Monitoring:

The City of Bartow will begin sampling for fecal coliform in 2015 at the Wabash and Tee Circle ditches which discharge into the Peace River above Bowlegs Creek. The City is committed to continuing the quarterly sampling through the remainder of the NPDES permit cycle. Map below depicts the sampling locations.



ATTACHMENT 2 - ESTIMATES OF ANNUAL POLLUTANT LOADING COMPARISON

1999 ESTIMATED ANNUAL POLLUTANT LOAD

Landuse	Area (Acres)	Runoff (in)	Total N (lb)	Total P (lb)	Total BOD (lb)	Total TSS (lb)	Total Copper (lb)	Total Lead (lb)	Total Zinc (lb)
Citrus	920.40	310.93	1857.55	123.53	1961.88	11894.63	2.33	0.76	9.11
General Agriculture	107.98	5.61	36.09	6.74	55.47	629.83	0.19	0.04	0.30
High-Intensity Commercial	415.38	823.40	4292.27	298.15	13727.87	82782.92	19.44	0.00	172.65
Highway	291.72	378.24	1361.77	164.30	4998.93	35793.59	30.93	10.49	120.05
Light Industrial	94.94	208.65	563.79	99.56	3202.00	25047.65	1.30	0.81	22.92
Low-Density Residential	79.15	49.75	184.33	20.38	530.49	2582.47	0.92	0.22	3.41
Low-Intensity Commercial	691.22	1786.02	3193.74	356.88	15658.46	112621.23	40.65	8.48	155.94
Mining / Extractive	17498.76	4270.93	13628.52	1728.44	87565.64	691210.12	34.58	23.03	656.28
Multi-Family	218.06	338.16	1228.85	195.20	4093.72	27034.04	3.66	1.77	24.79
Open Water / Lake	849.72	2577.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pasture	1745.80	532.81	3495.20	964.98	7001.18	129270.81	0.00	0.00	0.00
Row Crops	65.32	1.48	9.92	2.05	0.00	79.50	0.09	0.02	0.12
Single-Family	2213.34	1728.55	6279.17	713.00	16812.49	77059.86	37.36	7.30	110.82
Undeveloped / Rangeland / Forest	1658.89	340.52	940.11	40.08	1004.87	5983.15	0.00	0.00	0.00
Wetland	3290.01	9981.07	27214.74	2415.47	70532.86	300293.39	26.84	26.79	160.71
TOTAL	**0.00**	**0.00**	**64286.04**	**7128.79**	**227145.86**	**1502283.21**	**198.28**	**79.71**	**1437.10**

1999 - 2006 ESTIMATED CHANGE IN ANNUAL POLLUTANT LOAD

Landuse	Area (Acres)	Runoff (in)	Total N (lb)	Total P (lb)	Total BOD (lb)	Total TSS (lb)	Total Copper (lb)	Total Lead (lb)	Total Zinc (lb)
Citrus	-226.79	-76.57	-464.58	-31.27	-495.71	-3007.67	-0.59	-0.19	-2.31
General Agriculture	209.42	30.05	197.19	37.48	309.64	3520.07	1.06	0.24	1.71
High-Intensity Commercial	47.03	93.59	416.69	21.58	902.78	5245.20	1.41	0.00	9.07
Highway	-104.62	-152.39	-572.48	-71.71	-2197.42	-15771.53	-13.50	-4.66	-53.40
Light Industrial	57.19	125.47	266.82	34.25	1105.46	8415.57	0.48	0.24	6.81
Low-Density Residential	41.04	26.21	97.93	10.71	267.89	1302.32	0.46	0.11	1.71
Low-Intensity Commercial	5.61	14.50	67.35	15.20	673.04	5084.59	1.51	0.47	8.82
Mining / Extractive	645.57	1008.47	3213.61	407.01	20607.31	162651.72	8.14	5.42	154.38
Multi-Family	8.77	13.17	50.27	8.73	188.38	1257.45	0.16	0.09	1.22
Open Water / Lake	-505.69	-1534.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pasture	-122.81	-24.97	-140.98	-33.22	-233.06	-4253.68	0.00	0.00	0.00
Row Crops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Single-Family	111.54	86.89	301.31	31.49	735.45	3348.52	1.67	0.30	4.59
Undeveloped / Rangeland / Forest	-48.43	-24.41	-52.15	-1.50	-33.61	-192.20	0.00	0.00	0.00
Wetland	-117.83	-357.45	-976.15	-86.76	-2533.96	-10789.24	-0.96	-0.96	-5.78
TOTAL	**0.00**	**0.00**	**2404.82**	**341.99**	**19296.18**	**156811.12**	**-0.15**	**1.06**	**126.82**

2006 - 2014 ESTIMATED CHANGE IN ANNUAL POLLUTANT LOAD

Landuse	Area (Acres)	Runoff (in)	Total N (lb)	Total P (lb)	Total BOD (lb)	Total TSS (lb)	Total Copper (lb)	Total Lead (lb)	Total Zinc (lb)
Citrus	-391.89	-132.09	-753.82	-48.08	-762.22	-4608.84	-0.91	-0.29	-3.49
General Agriculture	388.36	46.70	300.34	56.28	465.19	5275.92	1.60	0.37	2.56
High-Intensity Commercial	144.63	287.13	1282.60	74.14	3416.61	19049.83	5.20	0.00	38.47
Highway	314.22	335.99	103.07	-52.74	-1126.35	-15947.23	-1.88	-2.30	-44.01
Light Industrial	113.06	248.79	630.14	104.48	3410.33	26562.11	1.40	0.84	23.86
Low-Density Residential	135.40	85.08	255.43	26.02	713.11	3104.51	1.31	0.31	4.42
Low-Intensity Commercial	-6.69	-17.28	-326.71	-80.25	-3720.09	-32130.66	-7.64	-2.42	-50.29
Mining / Extractive	-1771.42	-789.81	-2515.54	-318.59	-16145.35	-127441.17	-6.38	-4.24	-120.96
Multi-Family	31.78	48.38	145.06	19.33	446.79	2381.11	0.44	0.20	2.40
Open Water / Lake	351.15	1065.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pasture	-392.16	-130.24	-809.03	-211.65	-1517.91	-27953.49	0.00	0.00	0.00
Row Crops	303.76	65.09	435.99	90.02	0.00	3494.99	3.88	0.71	5.30
Single-Family	188.49	144.34	-122.29	-120.34	-3242.03	-17640.58	-5.31	-1.90	-31.84
Undeveloped / Rangeland / Forest	-381.71	-59.75	-230.76	-12.53	-321.55	-1971.62	0.00	0.00	0.00
Wetland	973.01	2951.87	7550.07	639.97	18655.11	78627.27	7.18	7.02	41.86
TOTAL	**0.00**	**0.00**	**5944.55**	**166.06**	**271.65**	**-89197.86**	**-1.10**	**-1.72**	**-131.72**

CITY OF BARTOW FLS000015-003 (CYCLE 3) SECTION V A.2 - ESTIMATES OF ANNUAL POLLUTANT LOADING

2014

Landuse	Area (Acres)	Runoff (in)	Total N (lb)	Total P (lb)	Total BOD (lb)	Total TSS (lb)	Total Copper (lb)	Total Lead (lb)	Total Zinc (lb)
Citrus	706.67	237.08	1485.26	102.87	1639.57	9966.01	1.93	0.64	7.72
General Agriculture	761.72	103.36	678.38	128.95	1065.23	12109.98	3.64	0.84	5.89
High-Intensity Commercial	443.14	878.85	5910.90	548.19	26932.73	166124.91	35.75	0.00	381.35
Highway	609.81	716.94	2663.76	330.54	10110.62	72524.24	62.22	21.39	244.99
Light Industrial	222.24	488.68	1510.84	304.82	10072.25	79517.73	3.98	2.65	75.54
Low-Density Residential	218.71	137.44	559.12	67.09	1751.91	8573.16	2.98	0.75	11.56
Low-Intensity Commercial	672.34	1737.25	4381.63	753.83	36278.05	270907.50	84.81	23.56	442.87
Mining / Extractive	16633.16	3784.74	12111.77	1539.63	78008.01	615852.70	30.79	20.53	585.06
Multi-Family	225.29	349.02	1807.91	454.34	10696.01	73641.57	8.52	5.68	81.40
Open Water / Lake	1435.61	4355.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pasture	1871.71	529.90	3564.01	1005.97	7329.22	135518.62	0.00	0.00	0.00
Row Crops	369.09	66.57	445.91	92.07	0.00	3574.49	3.97	0.72	5.42
Single-Family	2288.84	1784.94	8955.38	1500.63	38241.90	181528.00	77.45	19.36	300.13
Undeveloped / Rangeland / Forest	1520.77	311.72	972.19	46.50	1183.54	7101.23	0.00	0.00	0.00
Wetland	5506.34	16704.85	45756.58	4077.32	119148.33	507399.72	45.30	45.30	271.82
Total	33485.44		90803.64	10952.76	342457.35	2144339.86	361.35	141.42	2413.74

2006

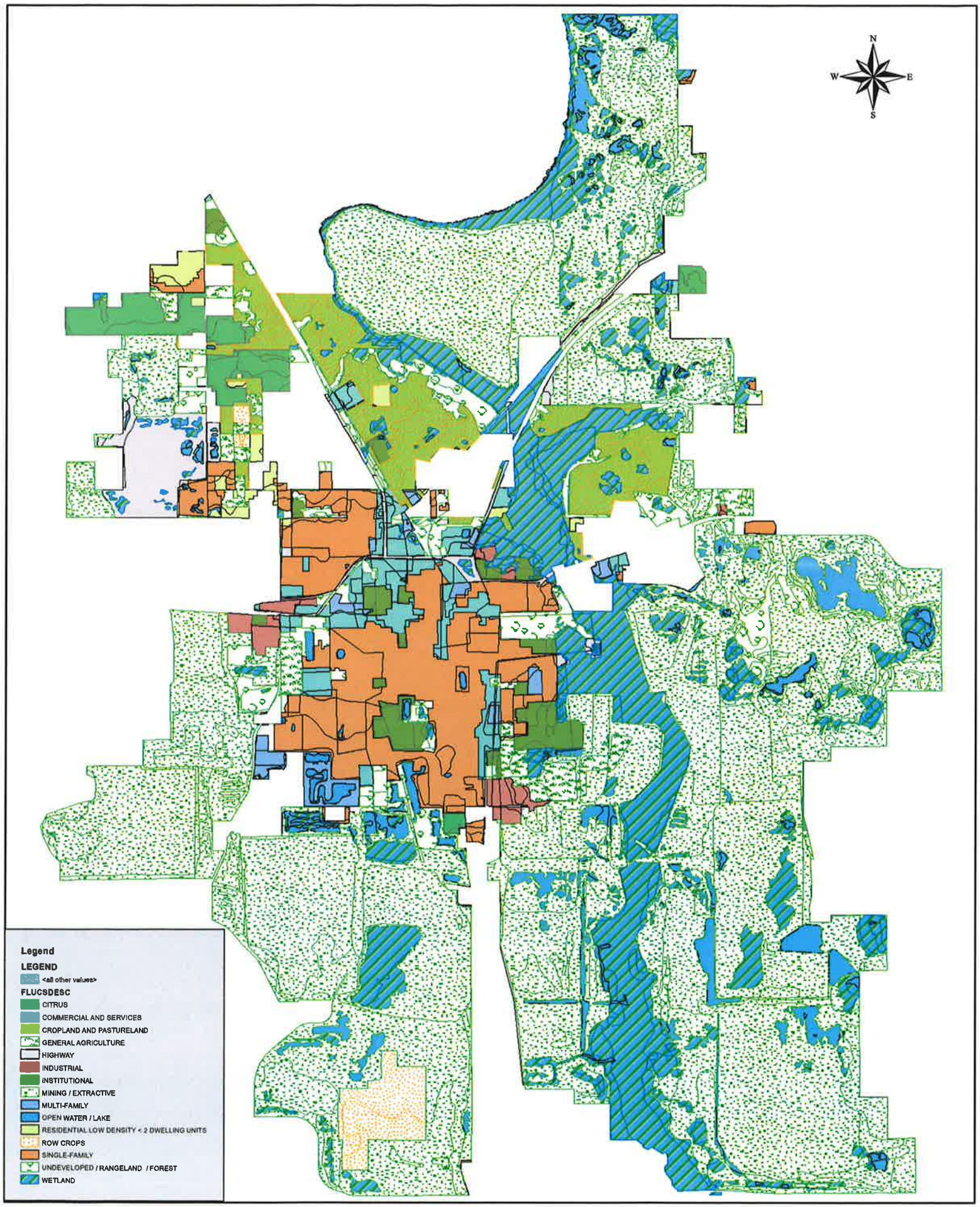
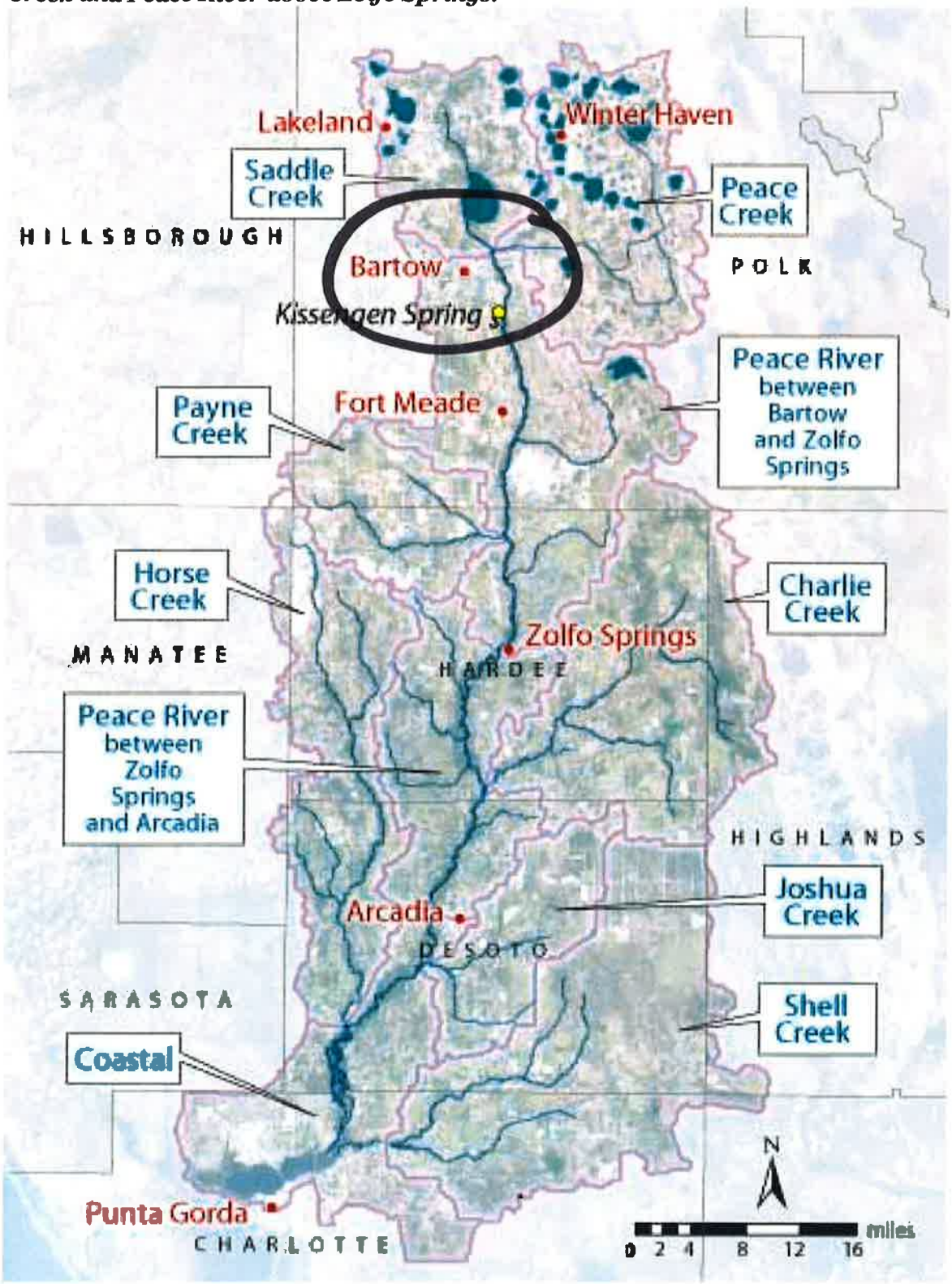
Landuse	Area (Acres)	Runoff (in)	Total N (lb)	Total P (lb)	Total BOD (lb)	Total TSS (lb)	Total Copper (lb)	Total Lead (lb)	Total Zinc (lb)
Citrus	897.47	301.00	1885.66	130.61	2081.57	12652.67	2.45	0.82	9.80
General Agriculture	376.14	52.13	342.12	65.03	537.21	6107.26	1.84	0.42	2.97
High-Intensity Commercial	354.49	702.99	4728.13	438.50	21543.48	132883.22	28.60	0.00	305.04
Highway	196.06	236.87	880.09	109.21	3340.50	23961.67	20.56	7.07	80.94
Light Industrial	162.86	357.66	1105.77	223.09	7371.80	58198.45	2.91	1.94	55.29
Low-Density Residential	124.64	78.75	320.37	38.44	1003.82	4912.29	1.71	0.43	6.62
Low-Intensity Commercial	686.95	1775.00	4476.83	770.21	37066.22	276793.24	86.65	24.07	452.50
Mining / Extractive	19607.29	5975.68	19123.14	2430.91	123166.00	972363.13	48.62	32.41	923.74
Multi-Family	202.28	313.82	1625.54	408.51	9617.06	66213.06	7.66	5.11	73.19
Open Water / Lake	564.14	1711.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pasture	2372.68	658.52	4429.02	1250.13	9108.07	168409.98	0.00	0.00	0.00
Row Crops	65.33	1.48	9.92	2.05	0.00	79.50	0.09	0.02	0.12
Single-Family	2194.52	1712.98	8594.39	1440.14	36700.35	174210.53	74.33	18.58	288.03
Undeveloped / Rangeland / Forest	1766.37	346.78	1081.55	51.73	1316.67	7900.00	0.00	0.00	0.00
Wetland	3914.21	11874.75	32526.36	2898.39	84697.34	360688.31	32.20	32.20	193.23
Total	33485.44		81128.87	10256.94	337550.09	2265373.30	307.61	123.06	2391.47

EVENT MEANS CONCENTRATIONS

LANDUSE EMC	Total N mg/l	Total P mg/l	Total BOD mg/l	Total TSS mg/l	Total Copper mg/l	Total Lead mg/l	Total Zinc mg/l
Low-Density	1.5	0.18	4.7	23	0.008	0.002	0.031
Single-Family	1.85	0.31	7.9	37.5	0.016	0.004	0.062
Multi-Family	1.91	0.48	11.3	77.8	0.009	0.006	0.086
Low-Intensity	0.93	0.16	7.7	57.5	0.018	0.005	0.094
High-Intensity	2.48	0.23	11.3	69.7	0.015	0	0.16
Light Industrial	1.14	0.23	7.6	60	0.003	0.002	0.057
Highway	1.37	0.17	5.2	37.3	0.032	0.011	0.126
Pasture	2.48	0.7	5.1	94.3	0	0	0
Citrus	2.31	0.16	2.55	15.5	0.003	0.001	0.012
Row Crops	2.47	0.51	0	19.8	0.022	0.004	0.03
General	2.42	0.46	3.8	43.2	0.013	0.003	0.021
Undeveloped /	1.15	0.055	1.4	8.4	0	0	0
Mining /	1.18	0.15	7.6	60	0.003	0.002	0.057
Wetland	1.01	0.09	2.63	11.2	0.001	0.001	0.006
Open Water /	0	0	0	0	0	0	0

CITY OF BARTOW FSL000015-003 (CYLCE 3) SECTION V.A.2

EVENT MEAN CONCENTRATION COMPARISON 1999 to 2014



Upper Peace River watershed includes sub-basins Saddle Creek, Peace Creek, Payne Creek and Peace River above Zolfo Springs.