INSTRUCTIONS – DEP FORM 62-624.600(2) ANNUAL REPORT FORM FOR INDIVIDUAL NPDES PERMITS FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS

Who Must Submit This Annual Report Form?

• Operators of municipal separate storm sewer systems (MS4s) that are covered by an individual NPDES stormwater permit pursuant to Rule 62-624, F.A.C. must submit this form. Each permitted operator must individually complete and submit this form, even if the operator is covered under a permit with multiple co-permittees or has established an interlocal agreement with one or more co-permittees.

When to Submit This Annual Report Form?

• This form must be fully completed and submitted for each year of coverage under the NPDES stormwater permit term. The Year 1 Annual Report must cover the twelve-month period beginning on the effective date of the permit and is due six months after the first anniversary of the date of permit issuance. All subsequent annual reports are due six months after the anniversary of the effective date of the permit.

Where To Submit This Annual Report Form?

• This form and any REQUIRED attachments must be sent by mail to the address below. The form and attachments may be submitted electronically (on a disk or CD) if a signed paper copy of Section VI of this form (Certification Statement and Signature) is also submitted. Do not submit any materials not specifically required to be submitted as per Section V of this form.

Florida Department of Environmental Protection NPDES Stormwater Section Mail Station 2500 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Section I: BACKGROUND INFORMATION

- <u>Row A</u> Provide the name of the governmental entity submitting this form. For example, "City of Lauderhill."
- <u>Row B</u> Provide the name of the permit as it appears on the first page of your permit. For example, "Broward County MS4." The permit name will not necessarily be the same name provided in Row A if the permit covers multiple co-permittees. If the name of the permit is the same name provided in Row A, repeat the name in Row B do not leave the row blank.
- <u>Row C</u> Provide the last two digits of your permit number as it appears on the first page of your permit.
- <u>Row D</u> Indicate which permit year the annual report covers. If the permit year is beyond Year 5, check the last box and provide the appropriate permit year number.
- <u>Row E</u> Indicate the twelve-month period the annual report covers. Provide the month and year for the beginning of the period and the month and year for the end of the period. For example, "March/2003 through February/2004." Do not provide the day.
- <u>Row F</u> Provide contact information for your Responsible Authority. The definition of a Responsible Authority can be found at Rule 62-620.305, F.A.C.
- Row G Provide contact information for the Designated Stormwater Management Program Contact if it isn't the same person as the Responsible Authority identified in Row F, otherwise leave this section blank. The Stormwater Management Program Contact is the technical person that oversees the stormwater program and is the primary contact for when the Department has questions about the annual report, is scheduling an annual inspection, or needs to discuss miscellaneous issues concerning implementation of the permit.

Section II: MS4 MAJOR OUTFALL INVENTORY

- This section is required to be completed in all permit years EXCEPT Year 1. In Year 1, you are required to
 provide an inventory and a map of all known major outfalls, in accordance with Rule 62-624.600(2)(a), F.A.C. In
 all subsequent permit years, you need to only provide any updates to the inventory by completing this section.
- The definition of a "major" outfall can be found at Rule 62-624.200(5), F.A.C.

- For the third item listed, indicate whether you attached the major outfall inventory and a map of the major outfall locations in accordance with Rule 62-624.600(2)(a), F.A.C. This item is only applicable in Year 1. For all other reporting years, check the "N/A" box.
- For the fourth item listed, indicate whether you attached the estimates of pollutant loadings and event mean concentrations as required under Part V.A of your permit and in accordance with Rule 62-624.600(2)(b), F.A.C. This item is only applicable in Year 3. For all other reporting years, check the "N/A" box.
- For the fifth item listed, indicated whether you attached your permit re-application in accordance with the reapplication requirements in Rule 62-624.420(2), F.A.C. This item is only applicable in Year 4. For all other reporting years, check the "N/A" box.

Section VI: CERTIFICATION STATEMENT AND SIGNATURE

 The Responsible Authority listed in Section I.F of this form must sign the certification statement provided in this section, in accordance with Rule 62-620.305, F.A.C. The annual report form will be returned to the permittee if the required signature is not included. If you choose to submit the annual report and attachments electronically, a signed paper copy of this section must also be submitted.

Section VII: STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

- <u>Column A</u> Columns B through F must be completed for each SWMP element indicated by the permit citation in Column A. No information is to be inserted by the permittee in this column.
- <u>Column B</u> Provide a summary of the permit requirements in Part III.A of your permit for each SWMP element and, underneath the summary, list the quantifiable SWMP activities related to the requirements. The particular quantifiable SWMP activities are specific to each permittee, but must include, at a minimum, the quantifiable activities that are required by the permit to be reported.
- <u>Column C</u> Provide a number representing the activities performed in the current reporting year for each of the quantifiable SWMP activities you listed in Column B. This column may not be left blank for any of the quantifiable SWMP activities listed in Column B.
- <u>Column D</u> Provide a title or description of the record that documents each number you provided in Column C. For example, "Daily Work Orders," "Illicit Complaint/Investigation Forms and Log," or "Construction Inspection Checklists and Log." If the activity is recorded entirely in an electronic database system, you may provide the name of the system, such as the "Hansen Model." This column may not be left blank for any of the numbers provided in Column C.
- Column E Provide the name of your department/division that is responsible for performing each of the SWMP activities listed in Column B, or provide the name of the co-permittee, private contractor, or other entity that is performing the activities on your behalf. Try to be as specific as possible by including, for example, the name of the employee responsible for a particular SWMP activity if only that employee can answer any questions concerning the activity. This column may not be left blank for any of the SWMP activities listed in Column B.
- <u>Column F</u> This column allows for any <u>brief</u> comments you determine are necessary to explain the information you provided in Columns C, D, and E.

Section VIII: CHANGES TO STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES

- This section is to be completed, as applicable, in all permit years EXCEPT Year 4. In Year 4, any desired changes to your SWMP activities should be included in your permit re-application that is to be attached to the Year 4 Annual Report Form.
- Row A If applicable, include in this row any requested changes to your SWMP activities that are established as specific requirements under Part III.A of your permit. Provide the permit citation/SWMP element that corresponds to the SWMP activity you want changed, describe the requested change, and provide a rationale for the change. Such changes cannot be implemented without prior approval from the Department and may require a permit revision in accordance with Rule 62-620.325, F.A.C.
- <u>Row B</u> If applicable, include in this row any changes to your SWMP activities that are NOT established as specific requirements under Part III.A of your permit but rather are activities at the discretion of the permittee. Provide the permit citation/SWMP element that corresponds to the SWMP activity you have changed, describe the change, and provide a rationale for the change.



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 mail to the address in the box at right.
- Refer to the Form Instructions for guidance on completing each section.
- Please print or type information in the appropriate areas below.

Submit the form and attachments to: Florida Department of Environmental Protection Mail Station 2500 2600 Blair Stone Road Tallahassee, Florida 32399-2400

SECT	SECTION I. BACKGROUND INFORMATION						
Α.	Permittee Name: City of Miami Beach						
В.	Permit Name: Miami-Dade County Municipa	I Separate Storm	Sewer Systen	n			
C.	Permit Number: FLS000003-003 (Cycle 3)						
D.	Annual Report Year: 🗌 Year 1 🛛 🛛 Year 2	🗌 Year 3	Year 4	Year 5	Other, specify Year:		
E.	Reporting Time Period (month/year): June/2012 through June/2013						
	Name of the Responsible Authority: Eric T. C	arpenter, P.E.					
	Title: Public Works Department Director						
-	Mailing Address: 1700 Convention Center Drive, 4th Floor						
г.	City: Miami Beach	Zip Code: 3313	9	County: Miami-Dade County			
	Telephone Number: 305-673-7080		Fax Number	: 305-673	-7028		
	E-mail Address: ericcarpenter@miamibeachfl.gov						
	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Margarita Wells						
	Title: Environmental Specialist						
	Department: Public Works Department, Environmental Division						
G.	Mailing Address: 1700 Convention Center Dr	ive, 4th Floor					
	City: Miami Beach	Zip Code: 3313	9	County:	Miami-Dade County		
	Telephone Number: 305-673-7080		Fax Number	: 786-394	-4595		
	E-mail Address: margaritawells@miamibeacl	E-mail Address: margaritawells@miamibeachfl.gov					

SECT	TON II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable In Year 1)
Α.	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?
В.	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?
C.	Is the change in the total number of outfalls due to lands annexed or vacated?

SECT	ION III. MONITORING PROGRAM
A.	Provide a brief statement as to the status of monitoring plan implementation: The monitoring plan is carried out through an inter-local agreement with Miami-Dade County. Please see the Miami- Dade County Annual Report for the monitoring information.
В.	Provide a brief discussion of the monitoring results to date: Please see the Miami-Dade County Annual Report for the monitoring information.
C.	Attach a monitoring data summary, as required by the permit.

SECTION IV. FISCAL ANALYSIS

Α.	Total expenditures for the NPDES stormwater management program for the current reporting year: NPDES management is incorporated in the Stormwater Utility Budget. The total expenditure was \$ 5,540,121.96 <u>DEP Note:</u> 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.
В.	Total budget for the NPDES stormwater management program for the subsequent reporting year: The Stormwater Operating Budget for the subsequent reporting year is \$ 6,158,000.00

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	<u>N/A</u> ⊠	*** <u>DEP Note:</u> 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.				
	\boxtimes	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.				
	\boxtimes	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.				
	\boxtimes	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 Res	Name of Responsible Authority (type or print):Eric T. Carpenter, P.E.								
Title:	Public Works, Department Director								
Signature:	Dulatet	Date: 12/18/2013							

SECTION	SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE								
Α.	B.				C.		D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantif	iable SWMP	Activity		Numbe Activi Perfor	∍r of ties med	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 structure of control structures listed in Table II.A.1.a of the structu	ral controls ar he permit. Re	nd roadway s eport the curr	stormwater co rent known ir	ollection struc ventory.	tures opera	ted by the permittee, ir	ncluding, at a minimur	m, all of the types
	<u>DEP Note</u> : 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.								rently or are cycle. Please see consistent with
	inventory and map with the Year 1 Annual Rep	s covered by ort.	the permit ar	nd a map dep	Sicting the loca	ation or the	major outraiis (naru co	py or CD-KOIVI). FIU	Vide the outrail
	Report the number of inspection and maintena type of structure inspected and maintained. If they were not and a description of the actions	nce activities the minimum that will be ta	conducted for inspection fr ken to ensure	or each type equencies so e that they w	of structure in et forth in Tab /ill be met.	icluded in Ta le II.A.1.a w	able II.A.1.a, and the p rere not met, provide a	ercentage of the tota s an attachment an e	l inventory of each xplanation of why
	<u>DEP Note</u> : If the minimum inspection frequent an attachment an explanation of why they attached explanation in Column D and the	uencies set fo were not and name of the	orth in Table l a description entity who fir	II.A.1.a of the n of the actionalized the e	e permit were ons that will be xplanation in (not met for taken to er Column E.	one or more type of st nsure that they will be i	ructure, the permittee met. Please provide t	must provide as the title of the
	Type of Structure		Number of	f Activities I	Performed		Documentation / Record	Entity Performing the Activity	Comments
		Total Number of Structures	Number of Inspections	Percentage Inspected	Number of Maintenance Activities	Percentage Maintained			
	Exfiltration trench / French drains (linear feet)	20,765.5	8,646.6	42%	8,646.6	42%	Total & Clean Trench/French Drain GIS Screen Shots	Public Works –	
	Pollution control boxes	149	6	4%	6	4%	Total & Clean Pollution Control Box/Manhole GIS Screen Shot	Operations	
	Stormwater pump stations	14	Monthly	100%	Minimum Once Annually	100%	City of Miami Beach: Work Orders	Public Works – Stormwater Operations	

SECTION \	/II. STORMWATER MANAGEMENT PROGR	RAM (SWMP)	SUMMARY	TABLE					
Α.	В.				C	•	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity			Number of Activities Performed		Documentation / Record	Entity Performing the Activity	Comments	
	Major stormwater outfalls	20	1	5%	1	5%	Total & Clean Major Outfalls GIS Screen Shot		
	Weirs or other control structures	8		See cor	iments.		Total Control Structures GIS Screen Shot		Weirs and other control structures are cleaned with the rest of the system, but their clean dates are not currently recorded individually.
	MS4 pipes / culverts (miles)	98.76	4.5	5%	4.5	5%	Total & Clean Pipes/Culverts GIS Screen Shots		
	Inlets / catch basins / grates	4,761	838	18%	838	18%	Total & Clean Catch Basins GIS Screen Shot		
	ATTACH explanation if any of the minimum inspection frequencies in Table II.A.1.a were <u>not</u> met			Attachment 1 - Explanation of Structural Contro Stormwater Collection Systems Operation Insp Maintenance Program		Controls and n Inspection and			
	Year 1 ONLY: Attac	ch a map of a	all known m	ajor outfalls					
Part III.A.2	Areas of New Development and Significant	Redevelopm	nent						
	Report the number of new development and si	gnificant rede	evelopment p	projects reviev	ved by the pe	ermittee for	post-development stor	mwater consideratior	IS.
	DEP Note: Please provide an explanation	in Column F	for any "0" re	eported in Co	lumn C.				
	Number of new development / significant redevelopment projects reviewed				45	8	Completed Review Time Report by Plan Reviewer – Public Works	Planning Department / Public Works Department	Total number was estimated from building permits reviewed for new construction and alteration and remodeling/repairs >\$400,000 reviewed during the reporting year.
	Provide in the Year 2 Annual Report the summ implementation of modifying codes to allow low	nary report of v impact desig	the review o gn BMPs.	f local codes	activity. Prov	vide in the `	Year 4 Annual Report th	ne follow-up report or	n plan

SECTION	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Α.	В.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<u>DEP Note:</u> Refer to Part III.A.2 of the permit for details regarding what the review Please provide the title of the attached report in Column D and the name of the en	entails, and what mus tity who finalized the r	t be included in the sum eport in Column E.	nmary report and follo	w-up report.
	Year 2 ONLY: Attach the summary report of the review activity		Review of Local Codes Summary Report		
	Year 4 ONLY: Attach the follow-up report on plan implementation				
Part III.A.3	Roadways				
	Annually review (and revise, as needed) and implement the permittee's written proced rights-of-way, employed within the permittee's jurisdictional area and properly dispose basis. Report on the litter control program, including the frequency of litter collection, a the activities, and an estimate of the quantity of litter collected. <u>DEP Note:</u> Please provide an explanation in Column F for any "0" reported in Colum reporting items. Unit options for the amount of litter include: bags, cubic yards, po square feet, linear feet, yards, miles, acres. If all litter collection is performed by s	lures for the litter contr of collected material. an estimate of the tota umn C. In addition, the bunds, tons. Unit optio taff or by contractors,	ol program(s) for public Implement the program I number of road miles of e permittee may choose ns for the amount of are but not by both, please	streets, roads, and hi on a monthly, or on a cleaned or amount of the its own units of meas a covered by the acti remove the non-applic	ghways, including an as needed, area covered by surement for the vity include: cable reporting
	REFINE PERMITTEE Litter Control Program: Frequency of litter collection	Daily	Sonitation Division		The City of
	PERMITTEE Litter Control Program: Estimated amount of area maintained (miles/day)	39	Standard Operating Procedures	Public Works – Sanitation Division	Miami Beach transports litter
	PERMITTEE Litter Control Program: Estimated amount of litter collected (yards)	21,840	NPDES Tracker – Sanitation		collected to the Miami-Dade County Solid Waste Management Disposal Facilities.
	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.	
	<u>DEP Note:</u> The permittee may choose its own unit of measurement for the amoun Adopt-A-Road or similar program is not implemented by the permittee, please not	nt of litter collected. U	nit options include: bags t do not remove the Ado	s, cubic yards, pounds nt-A-Road Program ru	s, tons. If an
	Trash Pick-up Events: Total miles cleaned	3.4	NPDES Tracker –		sporting ttorno.
	Trash Pick-up Events: Estimated amount of litter collected (trash bags)	314	Clean-up Events		
	Adopt-A-Beach Program: Total miles cleaned	0	NPDES Tracker – Adopt-a-Beach	City of Miami Beach through the non-profit ECOMB	The City does not have an Adopt-A-Road Program and the City's Adopt-a- Beach Program has been on hold since August 2012 pending a

SECTION \	II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Α.	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
					City Commission
					vote to continue
					the program.
	Adopt-A-Beach Program: Estimated amount of litter collected (bags)	0			
	 (TN) and total phosphorus (TP) loadings that were removed by the collection of sweeping, total (TN) and total phosphorus (TP) loadings that were removed by the collection of sweeping not in the Year 1 Annual Report. <u>DEP Note:</u> Please provide an explanation in Column F for any "0" reported in Coll of sweeping material collected. Unit options include: cubic yards, pounds, tons. <u>DEP Note:</u> If the permittee has curbs and gutters but no street sweeping program Annual Report. Refer to Part III.A.3 of the permit for the information that must be a street sweeping). Please provide the title of the of the other of overlapping in Column F. 	ings. If no street swept, an estim ings. If no street swept umn C. Also, the perr is implemented, the p included in the explan	nittee may choose its own permittee may choose its own permittee must provide a pation (including the alter	eepings collected, an nented, provide the ex wn unit of measureme on explanation of why mate BMPs used or p	not in the Year 1 not in the Jear 1
	Street sweeping). Please provide the title of the attached explanation in Column L Frequency of street sweeping		Sanitation Division	explanation in Colum	1 ⊑.
		Daily	Standard Operating		
	Total miles swept (per day)	117	Procedures		
	Estimated quantity of sweeping material collected (cubic yards)	Unknown			Street sweeping
	Total nitrogen loadings removed (pounds)	Unknown			material was
	Total phosphorus loadings removed (pounds)	Unknown		Public Works – Sanitation Division	combined with general litter collection prior to disposal. However, the City will provide data in the next reporting year. The City has created a log to estimate sample volume of material and will use this log to estimate volume collected.
	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
	Annually review (and revise, as needed) and implement the permittee's written standar road repair and maintenance, and from permittee-owned or operated equipment yards number of applicable facilities and the number of inspections conducted for each facilities <u>DEP Note:</u> The permittee needs to "customize" this section by listing the names of the number of the number of the number of the names of the number of the numbe	rd practices to reduce and maintenance sho y. If the applicable faciliti	the pollutants in stormwork that support road material material material support road material material structures and the structure of the st	vater runoff from areas aintenance activities. number of inspection	associated with Report the s of each facility in

SECTION	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE						
Α.	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		
	Column C. Add more rows if necessary. If "0" is reported in Column C for the numplease provide an explanation in Column F for why no inspections were conducted the permit, the same site inspection can count towards both inspection requirement inspection under both Parts III.A.3 and III.A.5.	nber of inspections co d. In addition, if the sa nts as long as it cover	nducted and the permitt ame facility is applicable s the applicable waste <i>e</i>	ee has one or more a under both Parts III.A area(s). Be sure to rep	pplicable facilities, A.3 and III.A.5 of ort the site		
		Number of Inspections					
	Name of facility #1: Public Works Yard	1	NPDES Tracker – Facility Inspections	Public Works – Environmental Division			
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. 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						
	Flood control projects completed during the reporting period Flood control projects completed during the reporting period that did <u>not</u> include stormwater treatment ATTACH a list of the flood control projects that did <u>not</u> include stormwater treatment and an explanation for each of why it was not Stormwater retrofit projects planned Stormwater retrofit projects under construction during the reporting period Stormwater retrofit projects completed during the reporting period	2 0 4 8 2	CIP Office List for NPDES Annual Report	CIP Department / Public Works Department	All of the City's flood control projects include stormwater treatment.		
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 procedulate 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 	ures for inspections ar	nd the implementation o	f measures to control	discharges from		

SECTION \	/II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE								
Α.	В.	C.	D.	E.	F.				
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments				
	Report the number of applicable facilities and the number of the inspections conducted for each facility. <u>DEP Note:</u> 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							
	Name of facility #1: Green Waste Facility	1	NPDES Tracker – Facility Inspections	Public Works – Environmental Division	The Green Waste Facility collects only vegetation yard waste that is disposed off-site at Waste Management Hialeah Transfer/Recycling Center (Kimmins).				
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. <u>DEP Note:</u> 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								
	PERSONNEL: Florida Department of Agriculture and Consumer Services (FDACS) certified applicators of pesticides and herbicides	9	NPDES Tracker – Greenspace Management	Parks and Recreation – Greenspace Management Division					
	CONTRACTORS: FDACS certified / licensed applicators of pesticides and herbicides	1	NPDES Tracker – Greenspace Management	Parks and Recreation – Greenspace Management Division	The City uses only one pest control contractor, APEX.				
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	0	NPDES Tracker –	Parks and					

SECTION	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Α.	В.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
			Greenspace Management	Recreation – Greenspace Management Division	
	PERSONNEL: Green Industry BMP Program training completed	1	NPDES Tracker – Greenspace Management	Parks and Recreation – Greenspace Management Division	The remainder of the Greenspace staff completed this training in 2011.
	CONTRACTORS: Green Industry BMP Program training completed	0	NPDES Tracker – Greenspace Management	Parks and Recreation – Greenspace Management Division	The City's only contractor, APEX, was recently retained. Therefore, their staff will be asked to receive the training this coming year.
	Pursuant to SB 2080 (2009), all local governments are encouraged to adopt a Florida- friendly Guidance Models for Ordinances, Covenants and Restrictions." If the broader within the watershed of a nutrient-impaired water body shall adopt the Department's M SB 494 (2009) or an ordinance that includes all of the requirements set forth in the Mo permit issuance. Provide a copy of the adopted ordinance with the subsequent Year 1 <u>DEP Note:</u> If this provision is not applicable because the permittee is not within the <i>F</i> , but do not remove this reporting item.	friendly Landscaping (Florida-friendly ordina lodel Ordinance for Flo del Ordinance. <u>The o</u> or Year 2 Annual Re <i>watershed of a nutr</i>	Ordinance similar to the ance described above is orida-Friendly Fertilizer ordinance shall be adopt port. rient-impaired water bod	one set forth in the de not adopted, then <u>all</u> Use on Urban Landsc ed within 24 months c y, then please indicate	ocument "Florida- local governments apes pursuant to <u>f the date of</u> e that in Column
	<u>DEP Note:</u> Please provide the title and citation of the ordinance in Column D, and Year 1 or Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance	the name of the entit	y who finalized the ordin	nance in Column E.	The City is not within the watershed of a nutrient-impaired water body.
	During Year 1 of the permit, develop and implement a written public education and out herbicides, and fertilizers. Report on the public education and outreach activities that a encourage citizens to reduce their use of pesticides, herbicides, and fertilizers, includir distributed, the percentage of the population reached by the activities in total, and the and Neighborhoods (FYN) program should only be reported if the permittee is contribu	reach program plan to are performed or spor ng the type and numbe number of Web site vi uting funding towards t	o encourage citizens to r sored by the permittee er of activities conducted isits (if applicable). Activithe the FYN staff and progra	reduce their use of pe within the permittee's d, the type and numbe vities performed under am within its jurisdiction	sticides, jurisdiction to er of materials r the Florida Yards n.

SECTION VI	I. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Α.	В.	С.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	include in Column F an explanation for why no outreach was performed. <u>DEP Note:</u> Miami-Dade County is to report the public education and outreach act Miami-Dade County). The co-permittees are to report just the public education ar <u>DEP Note:</u> Indicate under Column E "Entity Performing the Activity" if FYN or IFAS addition, please complete the following line: FYN PROGRAM FUNDING: Performing	ivities that it performed ad outreach activities th S is performing any of mittee Provides Fund	d county-wide (and not j hat they performed. the reported public educ ling? □ Yes ⊠ No	ust in the unincorpora cation and outreach a Amount of Funding	ted areas of ctivities. In
	Estimated percentage of the population reached by the activities in total	50%		Public Works – Environmental Division / Communications Department	This estimate takes into consideration that the City's outreach and education activities extend to residents, local visitors and national/internati onal tourists.
	Neighborhood presentations: Number conducted	3		Public Works –	onal tounoto.
	Neighborhood presentations: Number of participants	61		Environmental Division	
	Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed	65,000 Quarterly 155,000 Readers Quarterly	NPDES Tracker – Public Reporting Environmental Division	Communications Department	MB Magazine is produced quarterly. It is estimated that the publication reaches 155,000 readers.
	Public displays (e.g., kiosks, storyboards, posters, etc.)	1		Pollution Prevention Board is used at all Environmental Division Related Events	
	Radio or television Public Service Announcements (PSAs)			Communications Department	4 PSAs - each airing approximately 5 times per day
	Seminars/Workshops: Number conducted	3		Public Works – Environmental	

SECTION	/II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE							
Α.	В.	C.	D.	E.	F.			
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments			
				Division				
	Seminars/Workshops: Number of participants	65						
	Special events: Number conducted	3	NPDES Tracker – Public Reporting	Public Works – Environmental Division				
	Special events: Number of participants	450						
	Web Site: Number of hits / visitors to the stormwater-related page Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enfor Where applicable, strengthen the legal authority to conduct inspections, conduct models MS4 and to require compliance with conditions in ordinances, permits, contracts, an <u>DEP Note:</u> If applicable, please provide the title of the attached report in Columner ATTACH a report on any amendments to the applicable legal authorities Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit D During Year 1 of the permit, develop, and implement a written proactive inspection permits	12,006	NPDES Tracker – Public Reporting	Public Works – Environmental Division and Sanitation Division				
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforc	ement 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.							
	<u>DEF Note:</u> If applicable, picase provide the title of the applicable legal authority							
Part								
III.A.7.c	Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Disc	charges and/or Impro	oper Disposal					
	During Year 1 of the permit, develop and implement a written proactive inspection prog or dumping to the MS4. Report on the proactive inspection program, including the nur and type of enforcement actions taken.	gram plan for identifyir nber of inspections co	ng and eliminating sourc inducted, the number of	es of illicit discharges illicit activities found, a	, illicit connections, and the number			
	<u>DEP Note:</u> If "0" is reported in Column C for the first reporting item, please include addition, the permittee should re-word the "NOVs / warning letters / citations issue necessary.	e an explanation in Co ed" reporting item to m	olumn F for why no proa nore accurately reflect its	ctive inspections were particular initial enfor	eperformed. In cement activity, if			
	<u>DEP Note:</u> 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.							
	<u>DEP Note</u> : Miami-Dade County is to report the ONLY the proactive inspections it performed in the unincorporated areas of Miami-Dade County – any proactive inspections it performed in the co-permittees' jurisdictions are to be reported by the co-permittees. The co-permittees may report the IWP inspections performed by Miami-Dade County in their jurisdictions only if the inspections included looking for illicit discharges / connections / dumping to the MS4. Each co-permittee is to report the Miami-Dade County proactive inspections in their jurisdictions on their jurisdiction separately from the proactive inspections that the co-permittee performed itself.							
	<u>DEP Note:</u> Refer to Part III.A.7.c of the permit for what must be included in the winclument in Column D and the name of the entity who finalized the plan in Column E.	ritten proactive inspec	tion program plan. Plea	se provide the title of	the attached plan			
	Proactive inspections performed by Miami-Dade County on behalf of a co- permittee for suspected illicit discharges / connections / dumping	36		Miami-Dade County RER				

SECTION	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
Α.	B.	С.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
	Proactive inspections performed by the permittee for suspected illicit discharges / connections / dumping	21		Code Compliance and Public Works – Right-of-Way Division	The City's Code Compliance Division began conducting	
	Illicit discharges / connections / dumping found during a proactive inspection	21	Search Complaints Report and NPDES Tracker – SWCode Compliance and Public Works DivisionInspectionsCode Compliance DivisionInspectionsCode Compliance and Public Works - Right-of-Way Division and Miami-Dade County RER	Code Compliance and Public Works – Right-of-Way Division	proactive inspections for litter violations at the City's	
	Notices of Violation (NOVs) / warning letters / citations issued for illicit discharges / connections / dumping found during a proactive inspection	35 (9 by MDC, 26 by CMB)		beaches using both uniformed and undercover officers in March 2010. However, violations from		
	Fines issued for illicit discharges / connections / dumping found during a proactive inspection	18	Search Complaints Report	Code Compliance	these inspections are logged with the litter violations from reactive inspections. As such, all 74 litter violations were reported as reactive this reporting year.	
	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 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 report 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 Miami-Dade County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Miami-Dade County shall make available) the necessary ar report information from the County. <u>DEP Note:</u> If the number of reports received differs from the number of reactive investigations, please provide an explanation for the discrepancy in Column F. Ir addition, the permittee should re-word the "NOVs / warning letters / citations issued" reporting item to more accurately reflect its particular initial enforcement active active active investigation.					
	Reports of suspected illicit connections / discharges / dumping received	200	Search Complaints Report, NPDES Tracker – SW Inspections, and Web Q&A Service Request Reports	Code Compliance and Public Works – Right-of-Way Division	City staff investigates all reports of suspected illicit connections/disc harges/dumping	

SECTION \	II. STORMWATER MANAGEM	MENT PROGRAM (SWMP) S	UMMARY TABLE				
Α.		В.		С.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Require	ment/Quantifiable SWMP A	ctivity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Reactive investigations of rep	oorts of suspected illicit dis	charges/ connections / dumping	199	Search Complaints Report, NPDES Tracker – SW Inspections, and Web Q&A Service Request Reports		received. The County did not respond to 1 of 3 complaints received directly by their staff.
	Illicit discharges / connections / dumping found during a reactive investigation				Search Complaints Report, NPDES Tracker – SW Inspections, and Web Q&A Service Request Reports		
	Notices of Violation (N discharges / connections	50 (2 by MDC, 48 by CMB)	Search Complaints Report, NPDES Tracker – SW Inspections, and Web Q&A Service Request Reports				
	Fines issued for illicit dis	mping found during a reactive investigation	31	Search Complaints Report	Code Compliance and Miami-Dade County RER		
	During Year 1 of the permit, deve inspectors) <u>and contractors</u> to ide MS4. Refresher training shall be and outside training).	elop and implement a written entify and report conditions in provided annually. Report th	plan for the training of al the stormwater facilities he type of training activiti	l appropriate permittee that may indicate the es, and the number o	e personnel (including fie presence of illicit discha f permittee personnel ar	eld crews, fleet mainte arges / connections / c nd contractors trained	enance staff, and Jumping to the (both in-house
	<u>DEP Note:</u> If "0" is reported contractors during the applic previously trained.	for either reporting item, plea cable reporting year, the most	ase include in Column F a t recent year that training	an explanation of why was previously provid	training was not provide ded / obtained, and the r	ed to / obtained by per names of the personn	rsonnel and el and contractors
		Initial Training	Refresher Training				
	Personnel trained	5	17		NPDES Tracker - Training	Public Works – Environmental Division	
	Contractors trained	0	0				The City does not utilize contractors to inspect the MS4.
Part III.A.7.d	Illicit Discharges and Imprope	r Disposal — Spill Preventio	on and Response				
	Annually review (and revise, as r that discharge into the MS4. Re County Fire Department to cond	needed) and implement the p port on the spill prevention ar uct these activities on its beha	ermittee's written spill-pro nd response activities, ind alf, the permittee shall ob	evention/spill-respons cluding the number of otain (and, upon reque	e plan and procedures to spills addressed. If a pest, Miami-Dade County	o prevent, contain, an ermittee relies on the shall make available)	d respond to spills Miami-Dade the necessary

SECTION	/II. STORMWATER MANAGEMI	ENT PROGRAM (SWMP)	SUMMARY TABLE						
Α.		В.		C.	D.	E.	F.		
Permit Citation/ SWMP Element	Permit Requirem	nent/Quantifiable SWMP	Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments		
	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.								
	Hazardous and non-hazardous material spills responded to			106	NPDES Tracker – Fire Department	Fire Department			
	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).								
	<u>DEP Note:</u> 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	78	17		NPDES Tracker – Fire Department and Training	Fire Department and Public Works – Environmental Division			
	Contractors trained	0	0		N/A	N/A	The City does not utilize contractors to respond to hazardous spills.		
Part III.A.7.e	Illicit Discharges and Improper	Disposal — Public Repor	ting						
	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. If a permittee relies on the 24-Hour Miami-Dade County hotline as its telephone line for citizen reporting, the permittee shall publicize the existence of the 24-Hour Miami-Dade County pollution complaint hotline number on a routine basis. 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. If the permittee relies on the 24-Hour Miami-Dade County hotline, the reporting item of "Publicize the Miami-Dade County Pollution Complaint Hotline" must also 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								

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 DEP Note: Mami-Dade County is to report the public education and outreach activities that it preformed declaration reached by the activities in total Declaration Finite Public Works – Environmental Division / Communications This estimate the unincorporated areas of the set in the cities that Cities that the Cities that the Cities that the Cities	SECTION V	II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Permit SWMP Permit Requirement/Quantifiable SWMP Activity Number Activities Performed Documentation/ Record Entity Performad Comments DEP Note: Mami-Dade County is to report the public education and outreach activities that it performed Documentation / Record Performad Performad Performad Performad Performad This estimate Estimated percentage of the population reached by the activities in total Mani-Dade County. The co-permittees are to report just the public education and outreach activities that it performed. Some in the unincorporated areas of takes into outreach and outreach and outreach outreach and outreach outreach and outreach and	Α.	В.	С.	D.	E.	F.
DEP Note: Mami-Dade County): The co-permittees are to report just the public education and outreach activities that its performed. This estimate takes into consideration Estimated percentage of the population reached by the activities in total 50% Public Works - Environmental DWision / Communications This estimate takes into consideration Neighborhood presentations: Number conducted Neighborhood presentations: Number of participants Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed 2 NPDES Tracker - Public Works - Environmental DWision / Communications Public Works - Environmental DWision / Communications Public Works - Environmental DWision / Communications Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed 65,000 Quarterly 1 Public Works - Environmental DWision / Environmental DWision / Environmental DWision / Environmental DWision / Department MB Magazine is produced quarterly it is estimated that the public Works - Environmental DWision MB Magazine is produced quarterly it estimated that the public Works - Environmental DWision Public Works - Environmental DWision Follution Public Works - Environmental DWision MB Magazine is produced quarterly it estimated that the public Works - Environmental DWision Seminars/Workshops: Number conducted Special events: Number conducted Environmental DWision 4 Public Works - Environmental DWision Public Works - Environmental DWision	Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Estimated percentage of the population reached by the activities in total 50% Public Works- consideration Department This estimate consideration Department Neighborhood presentations: Number conducted Neighborhood presentations: Number of participants 2 NPDES Tracker - Public Reporting, Env Events Public Works - Environmental Division / UF Public Works - environmental Division / UF Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed 65.000 Quarterly 155.000 Readers Quarterly Public Works - Environmental Division / UF MB Magazine is produced quarterly, it is estimated that the publication reaches 155.000 reaches 155.000 Public displays (e.g., kiosks, storyboards, posters, etc.) 1 NPDES Tracker - Public Reporting, Environmental Division / UF MB Magazine is produced quarterly. Radio or television Public Service Announcements (PSAs) Seminars/Workshops: Number of participants Special events: Number of participants Special events: Number of participants 4 Public Works - Environmental Division 4 PSAs - each ervironmental Division		<u>DEP Note:</u> Miami-Dade County is to report the public education and outreach act. Miami-Dade County). The co-permittees are to report just the public education ar	ivities that it performed ad outreach activities th	d county-wide (and not j hat they performed.	ust in the unincorpora	ited areas of
Neighborhood presentations: Number of participants 2 NPDES Tracker - Public Reporting, Env Events Public Works - Environmental Division / UF Extension Office Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed 65,000 Quarterly Env Events MB Magazine is produced quarterly. It is estimated that the publication reacters. Quarterly Public displays (e.g., kiosks, storyboards, posters, etc.) 1 NPDES Tracker - Public Reporting, Environmental MB Magazine is produced quarterly. It is estimated that the publication reacters. Quarterly Radio or television Public Service Announcements (PSAs) 1 NPDES Tracker - Public Works - Environmental Public Works - Environmental Seminars/Workshops: Number conducted 3 4 Public Works - Environmental Public Works - Environmental Special events: Number of participants 65 6 Public Works - Environmental Public Works - Environmental		Estimated percentage of the population reached by the activities in total	50%		Public Works – Environmental Division / Communications Department	This estimate takes into consideration that the City's outreach and education activities extend to residents, local visitors and national/internati onal tourists.
Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed 66,000 Quarterly Newsletters MB Magazine is produced quarterly. It is estimated that the publication reaches. Public displays (e.g., kiosks, storyboards, posters, etc.) 1 NPDES Tracker – Public Reporting Communications Department MB Magazine is produced Radio or television Public Service Announcements (PSAs) 1 NPDES Tracker – Public Reporting Public Works – Environmental Division Public Works – Environmental Division 4 Seminars/Workshops: Number of participants Special events: Number conducted 3 Public Works – Environmental Division 4		Neighborhood presentations: Number conducted Neighborhood presentations: Number of participants	2 45	NPDES Tracker – Public Reporting, Env Events	Public Works – Environmental Division / UF Extension Office	
Public displays (e.g., kiosks, storyboards, posters, etc.) 1 Public Works – Public Works – Pollution Radio or television Public Service Announcements (PSAs) 4 Public Reporting Public Works – Environmental Division Pollution Seminars/Workshops: Number conducted 3 Seminars/Workshops: Number of participants Special events: Number conducted 65 Public Works – Environmental Division Public Works – Public Works – 6 Public Works – Environmental Division Public Works – Environmental Division		Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed	65,000 Quarterly 155,000 Readers Quarterly		Communications Department	MB Magazine is produced quarterly. It is estimated that the publication reaches 155,000 readers.
Radio or television Public Service Announcements (PSAs) 4 Communications 4 PSAs - each 4 3 Department approximately 5 5 9 Public Works – Environmental Division Division 9 6 Public Works – 9 Public Works – Environmental 9 0 0		Public displays (e.g., kiosks, storyboards, posters, etc.)	1	NPDES Tracker – Public Reporting	Public Works – Environmental Division	Pollution Prevention Board is used at all Environmental Division Related Events
Seminars/Workshops: Number conducted Public Works – 3 Environmental Division Division Special events: Number conducted 6		Radio or television Public Service Announcements (PSAs)	4		Communications Department	4 PSAs - each airing approximately 5 times per day
Seminars/Workshops: Number of participants 65 Special events: Number conducted Public Works – 6 Environmental		Seminars/Workshops: Number conducted	3		Public Works – Environmental Division	
		Seminars/Workshops: Number of participants Special events: Number conducted	65 6		Public Works – Environmental	

SECTION \	II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE						
Α.	В.	C.	D.	E.	F.		
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments		
	Special events: Number of participants	1180					
	Web Site: Number of visitors to the stormwater-related pages	12,006		Public Works – Environmental Division and Sanitation Division			
Part III.A.7.f	.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 out fluids, leftover hazardous household products, and lead acid batteries. On a routine bi including a description of the types of materials accepted and the hours of operation. sponsored by the permittee within the permittee's jurisdiction to encourage the proper and number of activities conducted, the type and number of materials distributed, the a population reached by the activities in total, and the number of Web site visits (if applied <u>DEP Note:</u> The permittee should "customize" the list of public outreach activities in public outreach program. However, the reporting items of "Estimated percentage County Home Chemical Collection Program" must remain. The permittee may an newsletter distributed. If "0" is reported in Column C for all the reporting items, ple DEP Note: Miami-Dade County is to report the public education and outreach activities are to report just the public education and outreach activities are to report just the public education and outreach activities are to report just the public education and outreach art	reach program plan to asis, inform the public Report on the public e use and disposal of oi amount of waste collec cable). by removing items or a of the population reac Id more specifics to the ase include in Column ivities that it performed ad outreach activities to	e encourage the proper of the locations of colle ducation and outreach a ls, toxics, and househol cted / recycled / properly adding items to the list b thed by the activities in t e reporting items, such a f F an explanation for wi d county-wide (and not) hat they performed.	use and disposal of us ction facilities for these activities that are perfor d hazardous waste, in disposed, the percen relow as appropriate to total" and "Publicize the as the name of the bro hy no outreach was per fust in the unincorpora	sed motor vehicle materials, ormed or icluding the type itage of the o their particular ie Miami-Dade ochure or erformed. ated areas of		
	Estimated percentage of the population reached by the activities in total		,		This estimate		
		50%		Public Works – Environmental Division / Communications Department	takes into consideration that the City's outreach and education activities extend to residents, local visitors and national/internati onal tourists.		
	Publicize the Miami-Dade County Home Chemical Collection Program	785			The City only publicizes this program through the Public Works – Sanitation Division Hazardous Waste website, which logged 785 views in this		

SECTION	II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Α.	В.	С.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
					reporting year.
	Neighborhood presentations: Number conducted	3	NPDES Tracker –	Public Works –	
	Neighbornoou presentations. Number of participants	61	Public Reporting	Division	
	Newspapers & newsletters: Number of articles/notices published	65,000 Quarterly			MB Magazine is
	Newsletters: Number of newsletters distributed				produced
		155,000 Readers Quarterly		Communications Department	quarteriy. It is estimated that the publication reaches 155,000 readers.
	Public displays (e.g., kiosks, storyboards, posters, etc.)	1		Public Works – Environmental Division	Pollution Prevention Board is used at all Environmental Division Related Events
	Radio or television Public Service Announcements (PSAs)				4 PSAs - each
		4	NPDES Tracker – Public Reporting		airing approximately 5 times per day
	Seminars/Workshops: Number conducted	2		Public Works – Environmental Division	
	Seminars/Workshops: Number of participants	30		reaches 155,000 readers.Public Works – Environmental DivisionPollution Prevention Board is used at all Environmental Division Related Events4 PSAs - each airing approximately 5 times per dayPublic Works – Environmental DivisionPublic Works – Environmental Division	
	Special events: Number conducted	7			
	Special events: Number of participants	1280			
	Web Site: Number of visitors to the stormwater-related pages			Public Works – Environmental Division and Sanitation Division	
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage	e			
	Annually review (and revise, as needed) and implement the permittee's written proced	ures to reduce or elim	inate sanitary wastewat	er contamination into	the MS4, including
	discharges to the MS4 from sanitary sewer overflows (SSOs) and from inflow / infiltrati appropriate utility owner of a violation if constituents common to wastewater contamina undertaken to reduce or eliminate SSOs and inflow/ infiltration, the number of SSOs or owner of the sanitary sewer system within the permittee's jurisdiction.	on from collection / tra ation are discovered in inflow / infiltration inc	ansmission systems and the MS4. Report on th idents found and the nu	l/or septic tank systen le type and number of mber resolved, and th	ns. Advise the activities ne name of the

SECTION	II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE								
Α.	B.	С.	D.	E.	F.				
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments				
	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.								
	SSO incidents discovered	0			Miami-Dade				
	SSO incidents resolved	0	Sanitary Sewer Overflows Discovered and Resolved	Miami-Dade County WASD	County WASD documented 0 SSO incidents for this reporting year.				
	Inflow / infiltration incidents discovered	13	Web 0&A Service	Public Works –					
	Inflow / infiltration incidents resolved	13	Request Reports	Operations Division					
	Name of owner of the sanitary sewer system	Miami-Dade County	WASD	•					
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 body into which each high risk facility discharges. For the purposes of this permit, high Operating municipal landfills; Hazardous waste treatment, storage, disposal and recovery facilities; Facilities that are subject to EPCRA Title III, Section 313 (also known as the Any other industrial or commercial discharge that the permittee determines is include facilities identified through the proactive inspection program as per Provide facilities identified through the proactive inspection program as per Provide facilities inventory, including the type and total number of high for Miami-Dade County to conduct these activities on its behalf, the permittee shall obtainnual report information from the County. DEP Note: The TRI is updated every spring / summer by the U.S. EPA at www.ep then select "Generate Report." Please indicate in Column F when (month / year), DEP Note: The total number of high risk facilities reported needs to equal the sure buring Year 1 of the permit, develop and implement a written plan for conducting inspecting the stormwater program. While the permittee may determine the order and frequency during the permit term; however, facilities inspection program, including the number of permittee relies on Miami-Dade County to conduct these activities on its behalf, the permittee relies on the high risk facilities inspection program, including the number of permittee relies on Miami-Dade County to conduct these activities on its behalf, the permit annually. Report on the high risk facilities inspection program, including the number of permittee relies on Miami-Dade County to conduct these activities on its behalf, the permittee relies on Miami-Dade County to conduct these activities on its behalf, the permittee relies on Miami-Dade County to conduct these activities on its behalf, the permittee relies on Miami-Dade County to conduct t	ng into the permittee's in risk facilities include: Toxics Release Inven is contributing a substa art III.A.7.c of the permitsk facilities and the n ain (and, upon request to a.gov/triexplorer. Se you last checked EPA m of the numbers of the ections of high risk fac of the inspections, the he proactive inspectio f inspections conducter mittee shall obtain (a mittee has one or mor	MS4. The inventory sh tory (TRI) maintained by ntial pollutant loading to nit. umber of facilities newly t, Miami-Dade County s lect "Facility" on the left, 's TRI for applicable fac the four types of applicable fac permittee shall inspect n program as per Part II ad and the number and t nd, upon request, Miam	all identify the outfall the U.S. EPA); and the permittee's MS4. added each year. If hall make available) t chose your Geograp ilities. le facilities. bliance with all approp each identified facility I.A.7.c of the permit s ype of enforcement a i-Dade County shall n ase provide an explan	and surface water This could a permittee relies he necessary <i>hic Location, and</i> priate aspects of / at least once hall be inspected ctions taken. If a nake available) the ation in Column F				

SECTION \	II. STORMWATER MANAGEMENT PROGRAM	(SWMP)	SUMM	ARY TABLE				
Α.	B.				C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable	Permit Requirement/Quantifiable SWMP Activity				Documentation / Record	Entity Performing the Activity	Comments
	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.							
	<u>DEP Note:</u> Miami-Dade County is to report ONLY the inventory of high risk facilities in the unincorporated areas of Miami-Dade 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 Miami-Dade County – any high risk facility inspections it performed in the unincorporated areas of Miami-Dade County – the inventory of high risk facility inspections it performed in the unincorporated areas of Miami-Dade 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 Miami-Dade County that pertains to its jurisdiction.							
		s	of ns	For violations of high ris	discovered during a k inspection			
		Number of Facilities	Number Inspectio	Fines issued	Notices of Violation (NOVs) / warning letters / citations issued			F. the Comments to more accurately nventory of high risk (acility inspections it are to be reported by the Image: I
	Total high risk facilities	0						
	New high risk facilities added to the inventory during the current reporting period	0						There are no
	Operating municipal landfills	0						
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0						
	EPCRA Title III, Section 313 facilities (that are not landfills or HWTSDR facilities)	0					Miami-Dade County RER	in the City of Miami Beach as
	Facilities determined as high risk by the permittee through the proactive inspections as per Part III.A.7.c	0						of July 2013.
	Other facilities determined as high risk by the permittee (that are <u>not</u> facilities identified through the proactive inspections)	0						
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring fo	or High R	isk Ind	lustries				
	3.b 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 Miami-Dade County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Miami-Dade County shall make available) the necessary annual report information from the County.							
	risk facilities located in the co-permittees' juris	dictions th	nat wer	e sampled by the	County are to be repor	ted by the co-permittee	S.	ipieu – une myn

SECTION	II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Α.	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
	High risk facilities sampled	N/A		Miami-Dade County RER	There are no high risk facilities in the City of Miami Beach as of July 2013.
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Bes	st Management Pract	ices		
	Continue to implement the local codes or land development regulations and the written of appropriate structural and non-structural erosion and sedimentation controls during permittee and private pre-construction site plans <u>reviewed for stormwater</u> , erosion, and <u>DEP Note</u> : Please provide an explanation in Column F for any "0" reported in Column	n pre-construction site construction to reduce d sedimentation contro lumn C.	plan review procedures the discharge of polluta bls, and the number app	that require the use a ants to the MS4. Reproved.	and maintenance ort the number of
	PERMITTEE SITES: Construction site plans reviewed	186	Donding Dian	Dublia Worka	
	PERMITTEE SITES: Construction site plans approved	168		Engineering	
	PRIVATE SITES: Construction site plans reviewed	57	2012 and 2012	Division	
	PRIVATE SITES: Construction site plans approved	50	2012 and 2013	DIVISION	
	obtain all required stormwater permits. Report the number of new development/redev applicants who confirmed ERP and CGP coverage. <u>DEP Note:</u> Please provide an explanation in Column F for any "0" reported in Connumber of construction site plans reviewed, please provide an explanation for the	lumn C. If the number	cants notified of the ERF of applicants notified of F .	f ERP or CGP covera	ge is less than the
	Notified of ERP stormwater permit requirements				The Public
	Confirmed ERP coverage				Works –
	Notified of CGP stormwater permit requirements				Engineering
Dert	Confirmed CGP coverage				Division staff notifies all applicable projects of ERP and CGP requirements. However, implementation of notification and coverage confirmation and tracking are still in development.
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 pla	an that details the stand	dard operating procedu	es for implementation	ı of the

SECTION	II. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Α.	В.	С.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	stormwater, erosion and sedimentation inspection program for construction sites disch construction sites immediately upon written approval by the Department. Prior to Depa with its previously developed construction site inspection procedures. Report on the ir including the number of active construction sites during the reporting year, the number inspected, and the number and type of enforcement actions / referrals taken. <u>DEP Note:</u> If "0" is reported in Column C for the number of inspections conducted If the number of inspections reported is equal to or less than the number of active explanation in Column F. In addition, the permittee should re-word the "NOVs / w initial enforcement activity, if necessary. <u>DEP Note:</u> Refer to Part III.A.9.b of the permit for what must be included in the column F.	arging stormwater to t artment approval, the ispection program for of inspections of activ d, please provide an e construction sites, or varning letters / citation	he MS4. The permittee permittee shall continue privately-operated and p ve construction sites, the xplanation in Column F the percentage inspecte is issued" reporting item tion program plan. Plea	shall implement the p to perform inspection permittee-operated co percentage of active of why no inspections ed is less than 100%, to more accurately re se provide the title of	Dan for inspecting s in accordance instruction sites, construction sites were conducted. please provide an effect its particular the attached plan
	PERMITTEE SITES: Active construction sites	10	NPDES Tracker – Construction Sites and Private Run-off Activities / Projects / Developments Records	Public Works	This number was estimated based on the number of CIP projects active during the reporting year.
	PERMITTEE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs	30		Right-of-Way	The ROW Division
	PERMITTEE SITES: Percentage of active construction sites inspected	100%	Public Works – Engineering Division Standard Operating Procedure	Department	conducts a minimum of 3 inspections of each active construction site during the life of the project.
	PRIVATE SITES: Active construction sites	775	Private Run-off Activities / Projects / Developments Records	Public Works – Right-of-Way Division	This number was estimated based on the number of active ROW permits minus the number of CIP projects active during the reporting year.
	PRIVATE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs	2,325	Public Works –		The ROW Division
	PRIVATE SITES: Percentage of active construction sites inspected	100%	Engineering Division Standard Operating Procedure		conducts a minimum of 3 inspections of

SECTION	II. STORMWATER MANAG	GEMENT PROGR	RAM (SWMP) SUMM	ARY TABLE				
Α.		В.			C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requ	uirement/Quantit	fiable SWMP Activit	у	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
								each active construction site during the life of the project.
	Notices of	violation (NOV	s) / warning letters /	citations issued	8	SW Inspections		
			Stop Wo	rk Orders issued	1	NPDES Tracker –	Building	
				Fines issued	4	SW Inspections	Department / Code Compliance	
	Year 1 ONLY: Attach th	ne written constr	uction site inspection	on program plan				
Part III.A.9.c	Construction Site Runoff —	- Site Operator T	raining					
	Provide training for permittee management, erosion, and se with the permittee) of constru program approved by the Dep and site operators trained (bo <u>DEP Note:</u> If "0" is repor permittee's staff and prive <u>DEP Note:</u> The permittee note in Column F the nut	personnel (emple edimentation con- ction sites shall b partment. Refres oth in-house and o rted for any of the vate construction e should report of mber of staff who	byed by <u>or under con</u> trols. Also provide tra- e certified through the her training shall be p outside training), and ese reporting items, p site operators during hly the number of sta- owere previously train	tract with the perm aining for private co e Florida Stormwat provided annually. the number of priv lease include in Co the applicable repo ff and private const ned / certified. Priv	ittee) involved in the sonstruction site operate er, Erosion and Sedin Report the type of tra ate construction site o for the site operators ate site operator train	ite plan review, inspections. All permittee inspections. All permittee inspections activities, the number activities, the number activities, the number activities trained by the permittee of why training was not trained / certified during ing can include pre-constructed	on or construction of s ctors (employed by or ctor Training program, ber of inspectors, site bermittee. <i>t provided to / obtained</i> <i>the applicable report</i> <i>struction meetings</i> .	tormwater under contract or an equivalent plan reviewers ed by the ing year, and then
		Certification Training	Initial Training (non- certification)	Refresher Training				
	Permittee construction site inspectors	1	NPDES Tracker – Training	Public Works – Environmental Division and Miami-Dade County RER				
	Permittee construction site plan reviewers	2	5	10		NPDES Tracker – Training	Public Works – Environmental Division and Miami-Dade County RER	Most of the Public Works – Engineering Division staff that was trained are
	Permittee construction site operators	0	0	0		NPDES Tracker – Training	Public Works – Environmental Division and Miami-Dade	both plan reviewers and project managers.

SECTION	VII. STORMWATER MANAG							
Α.		В.			C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requ	Permit Requirement/Quantifiable SWMP Activity				Documentation / Record	Entity Performing the Activity	Comments
							County RER	
	Private construction site operators 0 0							The City did not provide a training program for contractors this reporting year.

SEC	ECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)								
А.	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. <u>DEP Note:</u> 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.							
В.	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) <u>DEP Note:</u> 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.							

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	t Required Attachment		Attachment Title
		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.		
		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.	1	Explanation of Structural Controls and Stormwater Collection Systems Operation Inspection and Maintenance Program
		Part III.A.4	EACH ANNUAL REPORT: A list of the flood control projects that did <u>not</u> include stormwater treatment and an explanation for each of why it did not, if applicable.		
		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.		
		Part V.B.9	EACH ANNUAL REPORT: Reporting and assessment of monitoring results. [Also addressed in Section III of the Annual Report Form]	2	Surface Water Quality Discussion and Analysis
		Part VI.B.2	EACH ANNUAL REPORT: An evaluation of the effectiveness of the SWMP in reducing pollutant loads discharged from the MS4 that, <u>at a minimum</u> , must include responses to the questions listed in the permit.	3	Evaluation of the SWMP
		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.		
		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).		
		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).		
		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.		
		Part III.A.6	YEAR 1 or YEAR 2: A copy of the adopted Florida-friendly Ordinance, if applicable.		
		Part III.A.7.c	YEAR 1: A proactive illicit discharge / connection / dumping inspection program plan.		
		Part III.A.9.b	YEAR 1: A construction site inspection program plan. [For approval by DEP]		
		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.	4	Review of Local Codes Summary Report
		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.		
		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.		
	\boxtimes	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.		
	\square	Part V.B.3	YEAR 4: The monitoring plan (with revisions, if applicable).		
	\square	Part VII.C	YEAR 4: An application to renew the permit.		

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 <u>new</u> written SOP / Plan	Reviewed & <u>no revision</u> <u>needed</u> to existing SOP / Plan	Reviewed & <u>revised</u> existing SOP / Plan	Permit Citation	Description of Required SOPs / Plans			
		\boxtimes		Part III.A.1	SOP and/or schedule of inspections and maintenance activities of the structural controls and roadway stormwater collection system.			
		\boxtimes		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.			
		\boxtimes		Part III.A.3	SOP for the litter control program.			
		\boxtimes		Part III.A.3	SOP for the street sweeping program.			
		\boxtimes		Part III.A.3	SOP for inspections of equipment yards and maintenance shops that support road maintenance activities.			
		\boxtimes		Part III.A.5	SOP for inspections of waste treatment, storage, and disposal facilities not covered by an NPDES stormwater permit.			
		\boxtimes		Part III.A.6	Plan for public education and outreach on reducing the use of pesticides, herbicides and fertilizer.			
		\boxtimes		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.			
		\square		Part III.A.7.c	Plan for proactive illicit discharge / connections / dumping inspections.*			
		\square		Part III.A.7.c	SOP for reactive illicit discharge / connections / dumping investigations.			
		\square		Part III.A.7.c	Plan for illicit discharge training.			
		\boxtimes		Part III.A.7.d	SOP for spill prevention and response efforts.			
		\square		Part III.A.7.d	Plan for spill prevention and response training.			
		\boxtimes		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.			
		\boxtimes		Part III.A.7.f	Plan for public education and outreach on the proper use and disposal of oils, toxics and household hazardous waste.			
		\square		Part III.A.7.g	SOP to reduce / eliminate sanitary wastewater contamination of the MS4.			
		\square		Part III.A.8	SOP for inspections of high risk industrial facilities.			
				Part III.A.9.a	SOP for construction site plan review for stormwater, erosion and sedimentation controls, and ERP and CGP coverage.			
		\boxtimes		Part III.A.9.b	Plan for inspections of construction sites.*			
		\boxtimes		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 <u>SEPARATELY</u> 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.	12/21/11							
Part VIII.B.3.b	12 MONTHS from effective date of permit: TMDL Monitoring and Assessment Plan.	6/21/12							
Part VIII.B.3.c	6 MONTHS from receiving analyses from the lab: TMDL Monitoring Report.	TBD							
Part VIII.B.4	30 MONTHS from effective date of permit: A Bacterial Pollution Control Plan (BPCP).	12/21/13							

END OF REVISED TAILORED MS4 AR FORM CYCLE 3 PERMIT

Attachment 1 NPDES Annual Report Cycle 3, Year 2

Part III.A.1 Explanation of Structural Controls and Stormwater Collection Systems Operation Inspection and Maintenance Program

The Public Works Department, Stormwater Operations Division is responsible for inspecting and maintaining the City's Municipal Separate Storm Sewer System (MS4). The City's MS4 operation inspection and maintenance program uses a combination of contractor and City staff efforts to strategically clean the system basin-by-basin, addressing all structures within a basin from east to west. Per cleaning event, City staff creates a cleaning work order which includes the basin area to be cleaned, the structures within that basin, and an inspection form. The City's GIS database is then reviewed and analyzed at the end of each reporting year to provide the information requested in the Annual Report form.

The Public Works Department, Stormwater Operations Division has identified two challenges which may explain why the City appears to have not met the required minimum inspection and maintenance frequencies for pollution control boxes, major stormwater outfalls, and MS4 pipes/culverts. One challenge was a nine month delay in the procurement of the contractor(s) necessary to carry out the program's cleaning schedule due to major changes in the City's procurement policies. As a result, the City had limited staff with which to complete the required maintenance and inspection activities during the reporting year. However, the City is in the process of refining these policies to ensure this issue does not occur in the future.

Another challenge is the City's existing documentation process. During the preparation of this year's Annual Report, City staff identified that the GIS database may not be accurately capturing all cleaning activities and/or that the data is being interpreted differently by the City's various departments. Therefore, the City will be conducting an interdepartmental review of its Cityworks and GIS databases to ensure that all inspection and maintenance activities are properly documented and that all departments are on the same page. Based on the results of this review, the City will evaluate whether additional inspection and maintenance is necessary and will determine how to best leverage its existing resources to improve this program.

Surface Water Quality Monitoring: Results and Discussion June 21, 2012 to June 20, 2013 as per Part V. B. of the NPDES MS4 permit #FLS000003-003, issued to Miami-Dade County and the associated Co-Permittees

INTRODUCTION

The monitoring described herein is a specific condition of the above cited permit, and is submitted on behalf of the County and the thirty (33) co-permittees.

Financing for the program is provided by the thirty-four (34) co-permittees. An Inter Agency Agreement was executed in 1994 to implement and identify the cost sharing of the NPDES Surface Water Quality Monitoring Program (NPDES-SWQP). The Inter Agency Agreement has been renewed periodically, with the most recent renewal in September 2007.

WATER QUALITY SAMPLING ACTIVITIES

The sampling activities follow the provisions of the monitoring program described in the supplement to the Part 2 Application, submitted to EPA Region IV on April 28, 1995 by the Water Management Division of RER (formerly DERM). Additionally, sampling activities also follow the provisions of the Memorandum of Understanding (MOU) issued by the EPA Region 4, subsequent to a meeting on January 29, 1997, held at Miami-Dade Department of Environmental Resources Management (DERM).

In December 2009 the density, spatial arrangement and parameterization of the monitoring programs' stations were reviewed to reduce redundancy, and optimize the temporal and spatial resolution of the overall water quality monitoring networks. The revisions were approved by FDEP in January 2010, and the current version of the monitoring network has implemented since this date

The NPDES-SWQP has been integrated into the broader County-wide Biscayne Bay Surface Water Quality Monitoring Program (BBSWQP). A total of one-hundred-and-seventeen (117) stations are sampled in that network. Ninety-three (100) surface water quality stations were identified to meet the requirements of the NPDES monitoring program. Information from these stations was augmented by additional 17 water quality locations available to the County (Figure 1). Surface water quality sampling for the 2012/13 permit year, was conducted on monthly basis between July 6, 2012 and June 4, 2013.

These stations include both fresh water canal and estuarine sites within Biscayne Bay and its tributaries. Thirty-four (39) of the stations are located in internal fresh water canals, across eighteen (18) drainage basins. The remaining seventy three (78 stations are estuarine sites located at discharge points of the canals into Biscayne Bay, and within the bay itself. The matrix showing the sample collection and frequency at each site is presented in Attachment 1.

Miami-Dade County Surface Water Quality Monitoring Stations



Figure 1. Map of surface water quality monitoring stations in Miami-Dade

SAMPLE COLLECTION

All surface water samples were "grab samples" collected by either a sample container, a 'Niskin' bottle grab sampler, or a peristaltic pump. Samples were collected one-half (0.5) meter below the water surface except bacteriological and Chlorophyll-A samples which were collected at the surface. Physical parameters collected at the bottom, at one-half (0.5) meter and at the surface at each station.

Samples were either collected directly into pre-labeled containers (bacteriological and Chlorophyll-A samples), transferred from the Niskin collector into the pre-labeled container, or collected by filling the pre-labeled container from the peristaltic pump, and transported to the analytical laboratory.

Physical parameters (i.e., temperature, salinity, specific conductance, pH and dissolved oxygen) were measured in the field with YSI multi-parameter meter. All readings were 'stored' on YSI dataloggers, as well as recorded on field sheets. Physical parameters were measured at three depths (bottom, one-half meter below the surface, and at the surface) at stations with greater than 1 meter water depth, and at two depths (surface and bottom) at stations with water depth less than 0.5 meter. All meters were calibrated as per the requirements of the manufacture and the FDEP Standard Operating Procedures for Field Activities (FDEP SOP 001/01).

SAMPLE ANALYSIS

Samples were minimally analyzed for parameters of interest as specified in the Table 1 of the Guidance for Preparing Monitoring Plans as Required for Phase I Municipal Separate Storm Sewer Systems (MS4) Permits (Table 1).

Recommended Parameters	Other Parameters for Consideration				
Chlorophyll A**	Biochemical Oxygen Demand				
Conductivity (Salinity)*	Cadmium, Dissolved				
Copper, Dissolved*	Chemical Oxygen Demand				
Dissolved Oxygen*	Chromium*				
Fecal Coliform*	Color				
Hardness*	Lead, Dissolved*				
Nitrate + Nitrite	Oil & Grease*				
рН	Ortho-phosphorus				
Phenol	Silver				
Total Kjeldahl Nitrogen	Total Phosphorus				
Total Nitrogen**	Total Dissolved Solids*				
Total Phosphorus**	Total Organic Carbon				
Total Suspended Solids	Zinc, Dissolved*				

Table 1. List of NPDES Recommended Parameters, and 'other parameters for consideration' sampled in the program.

* Parameters with established State or County Criterion

** Estuary-Specific Numeric Criterion

The samples were analyzed by laboratories that maintain NELAC certification for the specific parameters they analyzed, and were analyzed by one of the following laboratories: Miami-Dade Department of Regulatory and Economic Resources - Environmental Resources Management (DERM), Xenco laboratories Inc, and/or Florida-Spectrum Environmental Services, Inc.

ANALYSES AND REPORTING

The sample results were evaluated relative to established surface water quality criteria of the State of Florida (62-302.530 and 62-302-532, FAC) and Miami-Dade County (Municipal Code of Miami-Dade County, Chapter 24-42(4); Surface Water Quality Standards). The surface waters of Miami-Dade County (all canals and tidal waters), are designated as "Class-III waters" by the State of Florida. This "Designated Use" as defined provides that these waters are used for: "*Fish Consumption, Recreation, Propagation and Maintenance of a Healthy, Well-Balanced Population of Fish and Wildlife*" (62-302 F.A.C.), which has also been referred to as "Fishable–Swimmable Waters". If the water body does not meet one or more established water quality criteria, the water body is consider as not meeting its designated use.

Parameters with numeric criteria listed in 62-302.530 FAC, were evaluated according to the State's Impaired Waters Rule's (Chapter 62-303, F.A.C.) procedures for determination of a 'Verified Impaired' water body. The Rule establishes specific data requirements and an assessment period of the most recent 7.5 years for data evaluation. Data utilized in these comparisons met or exceeded the data quality and density requirements of the Rule. The assessments are based on the premise that a water body will be deemed noncompliant with an established water quality criterion if the sample results exceed the criteria 10% or more of the time. Water bodies that are noncompliant with one or more water quality criteria may be declared "Impaired". Accordingly, the most recent 7.5 years of data for each WIBD was compiled and the number of results that exceeded the each established criteria calculated. All sample results within a WBID were pooled, and the number of samples not meeting an applicable water quality criterion was calculated and compared to the value in Table 2 of 62-303 FAC; (replicated in Attachment 2) for its corresponding sample size¹. The referenced table provides the minimum number of measured exceedances needed, with at least 90% confidence, that water body exceeds the criteria at least ten percent of the time. If a water body exceeds the criteria at least ten percent of the time, then the WIBD is deemed as not meeting the water quality criterion for that parameter.

For those nutrients with numeric interpretations of narrative criteria listed in 62-302.532 FAC, the evaluation followed the protocol as noted in the section of the FAC. At the present time, only estuarine and coastal waters have designated numeric nutrient criteria. The FAC defines

¹ For sample sizes larger than 500, the number of exceedances for the specific sample size was estimated based on a power regression ($r^2=0.962$) of the sample sizes versus the minimum number of exceedances required for consideration as 'impaired'. Parameters with less than the minimum stated sample size (i.e., parameters sampled on an annual or semi-annual basis), were not evaluated with this method, due to there small sample size.

compliance with the criterion as: 'Annual Geometric Mean (AGM) will not be exceeded more than once in a 3-year period (62-302.532(h)). Estuary-specific numeric nutrient criteria for Coastal and Marine waters within Miami-Dade (i.e., Biscayne Bay), are shown in Table 2 below.

Estuary	Total Phosphorus	Total Nitrogen	Chlorophyll a			
(h) Biscayne Bay	Annual geometric means that shall not be exceeded more than once in a three year period					
1. Card Sound	0.008 mg/L	0.33 mg/L	0.5 μg/L			
2. Manatee Bay – Barnes Sound	0.007 mg/L	0.58 mg/L	0.4 μg/L			
3. North Central Inshore	0.007 mg/L	0.31 mg/L	0.5 μg/L			
4. North Central Outer-Bay	0.008 mg/L	0.28 mg/L	0.7 μg/L			
5. Northern North Bay	0.012 mg/L	0.30 mg/L	1.7 μg/L			
6. South Central Inshore	0.007 mg/L	0.48 mg/L	0.4 μg/L			
7. South Central Mid-Bay	0.007 mg/L	0.35 mg/L	0.2 μg/L			
8. South Central Outer-Bay	0.006 mg/L	0.24 mg/L	0.2 μg/L			
9. Southern North Bay	0.010 mg/L	0.29 mg/L	1.1 μg/L			

Table 2. Numeric interpretation of State's narrative nutrient criteria (62-302.532 F.A.C.),

To evaluate the compliance of the appropriate WBIDs with the listed estuarine nutrient criteria, the AGM for each of the last three years was calculated. Each AGM was compared with the criteria to determine if it exceeded the criterion. If the criterion was not exceeded more than once in the most recent past 3-year period the WBID was deemed 'In compliance', and deemed 'Not in compliance' if the criterion was exceeded more than once in the 3-year period (Table 4 and Figure 5).

For those sample results where the analyte (parameter) being assessed was not detected (i.e., concentration was less than the analytical Method Detection Limit (MDL), the samples were designated as being "Below Detection Limit" (BDL), and qualified with a "U" in the associated 'Laboratory Qualifier" column. It is not possible to know the actual concentration of such samples; however, it is desirable and necessary to account for these samples in statistical summaries and comparisons. Therefore, for statistical purposes, analytical results that were qualified with a "U" (i.e., "BDL"), were assigned a value equal to one-half (1/2) the MDL for that analyte, when included in statistical summaries and comparisons. This convention is similar to that noted in Chapter 62-302 of the Florida Administrative Code (FAC 62-302) for assigning numerical values to sample results that are BDL.

As the method noted above (e.g., as described in 62-303 FAC), is the process utilized by the State of Florida for determination of "Impaired Waters", the comparisons and results described herein provide a interim status of the water body relative to a potential 'Impaired' designation.

For parameters without specific numeric criteria, the annual WBID AGM was compared to a "Baseline Criterion". This baseline criterion was derived using the period of 1994-2004, and

calculated as the WBID AGM + 1.96 X the Standard Error of the Mean (SEM). The period chosen for the baseline served as the 'health condition' period for the establishment of numeric nutrient criteria, and was considered as a period of good water quality where no significant disturbances or detrimental impacts to water quality occurred. Those water bodies with a parameter AGM higher than the Baseline Criterion more than once in a three year period, will be identified considered as non-compliant with the non-degradation criteria.

For certain parameters (i.e. Silver and Beryllium), the MDL was higher than the State and or County Standard and thus, an absolute determination of compliance was not possible. The Impaired Waters Rule (62-303.320(9)(b) FAC) provides that when a parameter has a Method Detection Limit higher than the state's criterion, all analytical results reported as BDL are presumed to be compliant with the criterion.

WBID compliance with Water Quality Criteria:

Table 3 lists the water bodies (WIBDs) that, base on the assessment procedures provided in the IWR (62-303 FAC) are not meeting their designated use, as they are noncompliant with one or more surface water quality criteria. It should be noted that these evaluations are not meant to imply a designation of impairment on these water bodies, rather, only to note the present condition of the waterway, which can be used for management considerations within the WIBD and watershed in general. Complete assessment of possible WIBD impairment is conducted by the state as part of their Total Maximum Daily Load program.

Thirteen parameters with established State criteria were monitored within 32 WIBDs; which yielded a total of 334 assessments of the parameters against established criteria (NOTE: all 13 parameters are not collected in every water body). A total of 23 (6.8%) of the assessments were identified as not in compliance with their associated criteria. Dissolved Oxygen accounted for 17 of the instances of non-compliance², while, 3 instances of Fecal Coliforms, and 4 instances of Specific occurred. For each parameter presents maps of the WBID's that are impaired. Figures 2-5 present maps with the WBIDs that did not meet the IWR assessment criteria discussed above.

It should noted that some 'parameters' such as Dissolved Oxygen (DO) and Chlorophyll-a, are considered "response" parameters, wherein their non-compliance has to be a result of a causal factor (i.e., excessive nutrients for Chlorophyll-a; high BOD, or other oxygen depleting constituents for DO). If a 'causal' factor cannot be identified or associated with the elevated response parameter, the WIBD will be listed on the "303-4D" list (303-4D list is for water bodies that do not meet applicable criteria, but no causal pollutant can be identified; therefore a TMDL will not be developed at this time).

² For this report, Dissolved Oxygen compliance was evaluated using the concentration based numeric criteria in affect during the sampling period. Recent rule making modified those criteria to saturation based numeric criteria, which will be considered in future evaluations..

Table 3. Summary of WBIDs showing non-compliance with surface water quality criteria, following assessment as per 62-303.400 FAC (e.g., 90% confidence that a minimum of 10% of samples over the past 7.5 years do not meet the established criteria.

Parameter	SFWMD Canal Name	Local Name	WBID Number	No. of Samples not Meeting Criterion	Total Samples (N)	Percent of Samples not Meeting Criterion
Specific Conductance	C-111	Aerojet Canal	3303	37	231	16
Dissolved Oxygen		Arch Creek	3226M2	133	354	37.6
Fecal Coliform		Arch Creek	3226M2	63	306	20.6
Dissolved Oxygen	C-8	Biscayne Canal	3285	43	184	23.4
Specific Conductance	C-8	Biscayne Canal	3285	85	552	15.4
Dissolved Oxygen	C-1	Black Creek	3297	208	359	57.9
Dissolved Oxygen	C-4	Tamiami Canal	3286	146	267	54.7
Dissolved Oxygen	C-6	Miami River	3288	167	402	41.5
Dissolved Oxygen	C-6	Miami River	3290	97	186	52.2
Dissolved Oxygen	C-6	Miami River	3286A	73	78	93.6
Dissolved Oxygen	C-6	Miami River	3288B	44	111	39.6
Fecal Coliform	C-6	Miami River	3288B	4	21	19
Dissolved Oxygen		Florida City Canal	3306	53	187	28.3
Dissolved Oxygen	C-3	Coral Gables Canal	3292	46	99	46.5
Specific Conductance		Gould's Canal	3298A	72	265	27.2
Dissolved Oxygen	C-7	Little River	3287	269	398	67.6
Fecal Coliform	C-7	Little River	3287	51	378	13.5
Specific Conductance		Military Canal	3304	107	533	20.1
Specific Conductance	C-103	Mowry Canal	3302	88	793	11.1
Dissolved Oxygen	C-103	Mowry Canal	3302	199	269	74
Dissolved Oxygen		Oleta River	3226L	45	100	45
Fecal Coliform		Oleta River	3226L	24	99	24.2
Dissolved Oxygen	C-102	Princeton Canal	3300	138	266	51.9
Dissolved Oxygen	C-9	Snake Creek	3283	82	188	43.6
Dissolved Oxygen	C-2	Snapper Creek	3293	119	179	66.5
Copper		Wagner Creek	3288A	7	24	29.2
Dissolved Oxygen		Wagner Creek	3288A	225	269	83.6
Fecal Coliform		Wagner Creek	3288A	140	269	52

Exceedance-based Dissolved Oxygen Assesment of Biscayne Bay Water Quality



Figure 2. Compliance assessment of Dissovled Oxygen by WIBD.

Exceedance-based Fecal Coliform Assesment of Biscayne Bay Water Quality



3: Compliance assessment of Fecal Coliforms by WBID

Exceedance-based Specific Conductivity Assesment of Biscayne Bay Water Quality



Figure 4: Compliance assessment of Specific Conductivity by WBID

With respect to DO, as all freshwater samples are collected from the various South Florida Water Management and County drainage and water control canal system, there are conditions unique to Page 10 of 19 these systems that can affect DO concentrations. Specifically, it is recognized that the canal systems are dug to a depth that intersections the surficial Biscayne Aquifer, which allows a free exchange of waters between the surface waters of the canals, and the groundwater of the aquifer. Groundwater characteristically is hypoxic (low DO, commonly < 1 mg/l). This exchange with groundwater minimizes the overall DO concentration within the canals, often to the extent to cause the surface waters to not meet the established criterion. In cases where the concentrations of DO in the canals do not meet the standard, other parameters are evaluated in order to determine if the DO levels are a response to a causal parameter (e.g., high BOD, elevated nutrients or Chlorophyll-A, etc). If no causal parameter can be identified, potential causes for the lower DO values will be investigated, but it is recognized that the low DO concentrations in the canal systems of South Florida are reflection of the ground water exchange, and may not be a 'response' associated with a causal pollutant. It must be noted, however, if a WBID has what could be considered a 'causal' parameter, such as Arch Creek, Litter River, Oleta River (non-compliant for Fecal Coliform), the DO concentration would be considered non compliant in response to a causal parameter.

Nutrient-Chlorophyll Estuary Assessment:

The State of Florida's surface water criteria for nutrients has, up until late November of 2012, been a 'narrative' rather than numeric criterion. The criterion read "*In no case shall nutrient concentrations of a body of water be altered so as to cause an imbalance in natural populations of aquatic flora or fauna*." (62-302.530(47) FAC).

The State of Florida recently established 'Numeric interpretations of the Narrative Nutrient Criteria for specific Estuaries, including Biscayne Bay (620-302.532 FAC; Table 3 above). However, those criteria were applied to specific 'regions' of the bay, which do not follow the specific WBID boundaries as presently defined. Further, as the criteria are bay region specific, it is not possible to evaluate these criteria on a 'WBID' basis. Therefore, to provide insight into the condition of the Bay relative to Chlorophyll-a and those nutrients with defined criteria (Total Nitrogen [TN] and Total Phosphorus [TP]), the waters of Biscayne Bay were evaluated by their defined 'nutrient regions'. The results of those evaluations are presented in Table 4.

NUMERIC NUTRIENT CRITERIA (NNC) STATUS OF BISCAYNE BAY 2010-2013

NNC Standard: The Annual Geometric Mean (AGM) shall not be exceeded more than once in any three-year period (62-302.532(1)(h) F.A.C.)

	AGM for Total Phosphorus Concentration (mg/l)													
Bay Region	MBS	CS	SCI	SCM	SCO	NCI	NCO	SNB	NNB					
Criterion	0.007	0.008	0.007	0.007	0.006	0.007	0.008	0.01	0.012					
2010	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.004	0.005					
2011	0.003	0.002	0.003	0.003	0.002	0.003	0.002	0.004	0.005					
2012	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.005	0.006					
2013	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.004	0.006					

	AGM for Total Nitrogen Concentration (mg/l)													
Bay Region	MBS	CS	SCI	SCM	SCO	NCI	NCO	SNB	NNB					
Criterion	0.58	0.33	0.48	0.35	0.24	0.31	0.28	0.29	0.3					
2010	0.11	0.27	0.30	0.13	0.10	0.13	0.09	0.11	0.14					
2011	0.18	0.29	0.27	0.17	0.15	0.19	0.15	0.12	0.15					
2012	0.15	0.23	0.34	0.18	0.14	0.16	0.15	0.14	0.17					
2013	0.18	0.12	0.22	0.11	0.12	0.12	0.11	0.13	0.17					

		AG	iM for Chlo	orophyll-a	Concentra	tion (ug/l)			
Bay Region	MBS	CS	SCI	SCM	SCO	NCI	NCO	SNB	NNB
Criterion	0.4	0.5	0.4	0.2	0.2	0.5	0.7	1.1	1.7
2010	0.66	0.47	0.49	0.35	0.35	0.51	0.68	0.87	1.74
2011	0.66	0.34	0.47	0.31	0.25	0.42	0.51	0.85	1.61
2012	0.70	0.38	0.46	0.28	0.24	0.46	0.48	0.88	1.65
2013	0.61	0.68	0.40	0.37	0.21	0.42	0.48	1.01	1.71

Bay Regions: BSMB=Barnes Sound-Manatee Bay; CS=Card Sound; SCI=South Central Inshore; SCM=South Central-Mid; SCO=South Central Outer; NCI=North Central Inshore; NCO=North Central Outer; SNB=Southern North Bay; NNB=Northern North Bay

=

= Region is compliant with Numeric Nutrient Criteria Standard = Region is not compliant with Numeric Nutrient Criteria Standard

Figure 5 presents maps depicting estuaries which failed to meet the criterion (shown in red) for each parameter. Chlorophyll a failed to meet the criteria in three estuarine regions throughout Biscayne. However, no exceedances in the AGM criterion were noted for Total Nitrogen nor Total Phosphorus.Therefore based on the criteria that the AGM is not to be exceeded more than once in any 3 year period, 5 regions of Biscayne Bay would be considered as non-compliant with the Chlorophyll-a criteria. It must be noted that Chlorophyll-a, like DO, is considered a response variable, and while the AGM was exceeded (generally by less than 0.25 ug/l), possible causal parameters are to be reviewed to determine if a 'cause and effect' relationship exists. A review of the other nutrient parameters (TN, TP), show compliance with the criteria, and values considerably lower than the criteria. Additionally, other parameters that may indicate provide enrichment of the 'nutrient' base (e.g., ammonia, BOD, Fecal Coliform), are compliant with the criteria in the regions showing non-compliance with the Chlorophyll-a criteria. Thus, as was the

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case for DO, potential causes for the elevated values will be sought, but a direct causal pollutant can not be identified at this time.



Compliance= Annual Geometric Mean (AGM) does not exceeds criteria more than once in a consecutive three (3) year period.

Parameters without numeric criteria

Table 5 presents those parameters where the WBID AGM was higher than the calculated criterion.

<u> Table 5.</u>

Parameter	WBID	Baseline	Baseline	Baseline	Baseline	Year	Annual	Annual	*Baseline
		Samples	Arithmetic	Standard	Geometric		Samples	Geometric	Based
		(N)	Mean	Error	Mean		(N)	Mean	Criterion
Color (Apparent)	3283	177	52.2	1	50.4	2007	17	53.4	52.4
Color (Apparent)	3285	177	55.6	1.2	53.3	2007	18	55.9	55.8
Color (Apparent)	3287	368	54.2	1.1	50.5	2007	45	54.2	52.6
Color (Apparent)	3287	368	54.2	1.1	50.5	2012	1	55	52.6
Color (Apparent)	3287	368	54.2	1.1	50.5	2013	2	53.5	52.6
Color (Apparent)	3297	356	38.4	1.3	31.6	2012	24	34.3	34.1
Color (Apparent)	3302	254	28	2.9	15.2	2008	21	24.8	20.9
Color (Apparent)	3302	254	28	2.9	15.2	2013	12	20.9	20.9
Color (Apparent)	3305	77	16	1.8	12.7	2012	1	20	16.2
Color (Apparent)	6001	1772	15.6	0.4	11.7	2011	81	13.6	12.4
Color (Apparent)	6001	1772	15.6	0.4	11.7	2012	96	14.5	12.4
Color (Apparent)	6001	1772	15.6	0.4	11.7	2013	49	14.9	12.4
Color (Apparent)	3303B	90	21.5	1	19.8	2006	12	48.2	21.7
Color (Apparent)	3303B	90	21.5	1	19.8	2007	12	31.2	21.7
Color (Apparent)	6001C	267	9	0.3	8	2006	36	9.6	8.6
Color (Apparent)	6002A	180	13.1	0.6	11.4	2012	24	13.9	12.6
Phosphorus, Total (TP)	3285	195	0.014	0.001	0.011	2007	24	0.016	0.014
Phosphorus, Total (TP)	3285	195	0.014	0.001	0.011	2010	24	0.015	0.014
Phosphorus, Total (TP)	3286	211	0.009	0.001	0.006	2010	36	0.008	0.008
Phosphorus, Total (TP)	3286	211	0.009	0.001	0.006	2011	36	0.008	0.008
Phosphorus, Total (TP)	3287	393	0.017	0.001	0.013	2006	60	0.016	0.015
Phosphorus, Total (TP)	3287	393	0.017	0.001	0.013	2007	60	0.019	0.015
Phosphorus, Total (TP)	3287	393	0.017	0.001	0.013	2008	60	0.017	0.015
Phosphorus, Total (TP)	3287	393	0.017	0.001	0.013	2009	61	0.016	0.015
Phosphorus, Total (TP)	3287	393	0.017	0.001	0.013	2010	47	0.018	0.015
Phosphorus, Total (TP)	3287	393	0.017	0.001	0.013	2011	48	0.015	0.015

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Phosphorus, Total (TP)	3287	393	0.017	0.001	0.013	2012	47	0.017	0.015
Phosphorus, Total (TP)	3288	314	0.014	0.001	0.011	2008	46	0.013	0.013
Phosphorus, Total (TP)	3288	314	0.014	0.001	0.011	2011	36	0.014	0.013
Phosphorus, Total (TP)	3288	314	0.014	0.001	0.011	2013	18	0.015	0.013
Phosphorus, Total (TP)	3292	98	0.046	0.006	0.03	2009	12	0.045	0.042
Phosphorus, Total (TP)	3295	267	0.008	0.001	0.005	2006	41	0.007	0.007
Phosphorus, Total (TP)	3295	267	0.008	0.001	0.005	2007	44	0.008	0.007
Phosphorus, Total (TP)	3295	267	0.008	0.001	0.005	2008	48	0.008	0.007
Phosphorus, Total (TP)	3295	267	0.008	0.001	0.005	2009	45	0.008	0.007
Phosphorus, Total (TP)	3295	267	0.008	0.001	0.005	2010	36	0.008	0.007
Phosphorus, Total (TP)	3295	267	0.008	0.001	0.005	2011	36	0.007	0.007
Phosphorus, Total (TP)	3295	267	0.008	0.001	0.005	2012	39	0.008	0.007
Phosphorus, Total (TP)	3295	267	0.008	0.001	0.005	2013	24	0.007	0.007
Phosphorus, Total (TP)	3226H	468	0.008	0.001	0.006	2012	72	0.008	0.007
Phosphorus, Total (TP)	3226H	468	0.008	0.001	0.006	2013	36	0.008	0.007
Phosphorus, Total (TP)	3303B	100	0.008	0.002	0.005	2006	12	0.013	0.008
Phosphorus, Total (TP)	6002A	182	0.006	0.001	0.003	2006	46	0.011	0.006
Phosphorus, Total (TP)	6002A	182	0.006	0.001	0.003	2007	44	0.006	0.006

A total of 535 Annual Geometric Means were calculated from 5 parameters and 33 WBIDs (not all parameters are collected in all wbids). Of these 47 (8.5%) were higher than the calculated criterion and these were limited to 2 parameters, Color and Total Phosphorus. All Phenol, Phenols (mixture) and Phenanthrene samples were either not detected (BDL) or the values were below the practical quantitative limit (PQL).

Summary of FY13 Miami-Dade County Surface Water Quality Monitoring Program.

During FY 13, 37,046 samples were collected from 117 stations, during 12 sampling events. Eleven parameters with established State or County criteria, were evaluated in each of the 33 WBIDS they were sampled from, generating 302 assessments (note: not all parameters are collected in all WBIDS; therefore, the total number of comparisons will be less than the product of the number of parameters and the number of WBIDS). Of the 302 assessment, 252 (83.4%) were compliant with established criteria, 28 (9.3%) were not compliant, and 22 did not have a sample size large enough to determine its status.

Miami-Dade County has nine estuarine regions identified for the evaluation of nutrient impairments. Five of these are not meeting the chlorophyll criterion, but all estuarine regions meet the criteria for Total Nitrogen and Total Phosphorus.

Of the 33 WIBDS defined within the County, 13have been identified by the State of Florida as 'impaired' for one or more parameters (2005 & 2010 FDEP Impaired Waters Assessments). Twelve WBIDS show impairments for Fecal Coliform, 1 is impaired for copper, 1 is impaired for nutrients and 1 for Dissolved Oxygen (total of 15 impairments across the 13 WBIDS (Table 6).

The results of the present evaluation indicated that 20 WBIDS had a total of 28 instance of noncompliance with surface water quality criteria among within the 302 total parameter/WBID combinations assessed. However, 17 of those 'non-compliance' results were due to low Dissolved Oxygen (DO) in canal segments where the sampling occurs. This is a common instance in Miami-Dade the fresh water canals are dug sufficiently deep to cut into the surficial aquifer. Thus, ground water with very low concentrations of DO freely exchange with the surface waters of the canals. This condition does not result from biological or chemical depletion associated with a causal pollutant. This has been recognized by the State of Florida during their last evaluation, wherein only 1 WIBD (3305, 'North Canal') was identified as impaired for Dissolved Oxygen. Based on these premises, the 17 WBIDS that do not meet the DO criteria would not be considered 'impaired', as the non-compliance is not associated with a causal pollutant.

There were 11 instances of non-compliance that were not associated with DO. Six were associated with 'specific conductivity'. This non-compliance is a result of the close proximity of the sampling stations to the Coastal Control Structures, which essentially holds back tidal (salt) water. The State has determined to not define the water body impaired by Specific Conductivity as the non-compliance was due to its proximity to the Coastal Control structures and not a 'causal' pollutant. Of the remaining 6 instances of non-compliance, 5 were associated with Fecal Coliform, and 1 with copper. The 2005 and 2010 Impaired Waters Assessments identified 12 WIBDs as being non-compliant for Fecal Coliform, and 2 WBIDS non-compliant for copper (and therefore identified as "impaired"). Thus the FY13 assessments would indicate that 7 of the WBIDs previously identified as non-compliant for Fecal Coliform and 1 WIBD non-compliant for copper are now compliant with the Criteria. It should be noted however, that the segment identified as non-compliant for Copper, was not previously identified as such. If this condition continues, it may represent a new impairment in County waters.

The results of the present assessment do imply improvement in the County's surface water quality. This is evident in the number of WBIDS found to be compliant with all surface water criteria (27 WBIDS), in relation to the number deemed 'impaired' during the 2005 and 2010 FDEP Impaired Waters Assessment (20 WBIDS), with the greatest improvement being noted in the decrease of WBIDS found non-compliant with Fecal Coliform criteria (5 WBIDS, down from 12 WIBDS)

Table 6. Verified list of impaired List

Cycle	Group	OGC Case Number	Basin	Planning Unit	County (ies)	WBID	Water Segment Name	Water body Type	Water body Class ¹	Parameters Assessed Using the Impaired Waters Rule (IWR)	DO / Nutrient / Biology - TN , TP , BOD Median Values (mg/L) ²	Concentration of Criterion or Threshold Not Met	Priority for TMDL Developme nt ³	Projecte d Year For TMDL Develop ment ³	Verified Period Assessment Data ⁸
1	4	06-0637	Southeast Coast - Biscayne Bay	North Dade County	Broward, Miami-Dade	3283	Snake Creek Canal East	Stream	3F	Fecal Coliform		> 400 Counts/100ml	Medium	2011	
1	4	06-0639	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3285	C-8/Biscayne Canal	Stream	3F	Fecal Coliform		> 400 Counts/100ml	Low	2011	
1	4	06-0641	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3287	C-7/Little River	Stream	3F	Fecal Coliform		> 400 Counts/100ml	Low	2011	
1	4	06-0643	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3288	C-6/Miami River	Estuary	3M	Copper		> 3.7 µg/L	Medium	2011	
1	4	06-0644	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3288	C-6/Miami River	Estuary	3M	Fecal Coliform		> 400 Counts/100ml	Low	2011	
1	4	06-0646	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3290	C-6/Miami Canal	Estuary	3F	Fecal Coliform		> 400 Counts/100ml	Medium	2011	
1	4	06-0647	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3292	Coral Gables Canal	Stream	3F	Fecal Coliform		> 400 Counts/100ml	Medium	2011	
2	4	10-2864	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3293	C-2/Snapper Creek	Stream	3F	Fecal Coliform		≤ 400 Counts / 100ml	Low		36/145
2	4	10-2867	Southeast Coast - Biscayne Bay	South Dade County	Miami-Dade	3295	C-100	Stream	3F	Fecal Coliform		≤ 400 Counts/100ml	Low		32/235
2	4	10-2868	Southeast Coast - Biscayne Bay	South Dade County	Miami-Dade	3295	C-100	Stream	3F	Nutrients (Historic Chlorophyll-a)	TN = 0.42 (n=139) TP = 0.003 (n=332) BOD = 2 (n=89)	≤ 4.5 μg/L	Medium		2003 (5.8 µg/L) 2004 (4.6 µg/L) 2005 (2.0 µg/L) 2009 (8.9 µg/L)
2	4	10-2877	Southeast Coast - Biscayne Bay	South Dade County	Miami-Dade	3305	North Canal	Stream	3F	Dissolved Oxygen	TN = 2.415 (n=32) TP = 0.002 (n=76) BOD = 2 (n=22)	≥ 5.0 mg/L	Medium		45/77
1	4	06-0624	Southeast Coast - Biscayne Bay	Biscayne Bay Intracoastal	Miami-Dade	3226H	ICWW Dade Co.	Estuary	3M	Fecal Coliform		> 400 Counts/100ml	Medium	2011	
2	4	10-2837	Southeast Coast - Biscayne Bay	Biscayne Bay Intracoastal	Miami-Dade	3226L	Oleta River (Upper Segment)	Estuary	3M	Fecal Coliform		≤ 400 Counts/100ml	Low		47/95
1	4	06-0649	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3226M 2	Upper Arch Creek	Stream	3F	Fecal Coliform		> 400 Counts/100ml	Medium	2011	
1	4	06-0654	Southeast Coast - Biscayne Bay	North Dade County	Miami-Dade	3288B	C-6/Lower Miami River	Estuary	3M	Fecal Coliform		> 400 Counts/100ml	Medium	2011	

Attachment 1

STATION			NH3-	NOx-				0-		•		_	<u>.</u>		•		_	<u>.</u>											0514	
	feel	тр	N (filt)	N (filt)	Color	turb	Chla	(filt)	TKN	Cu-	Pb-	Zn-	Cd-		Cu-	Pb-	Zn-	Cd-	тее	тре	BOD	COD	PHEN	٨c	Cr	Цa	NG	VOC	SEMI-	0.6
AC01	B		(IIII.)	(IIII.)		luib	M							INES	300	300	300	300		103				AS		пу			VUC	0-0
AC02	B							IVI											Q											
AC03	M							М	В										Q	Q	Q	Q	Q	А	А	Α	A	A	А	А
AC06	М	М	М	М		Μ		М	В	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	A	Α	Α	A	A	А	A
AR01	В							М							А	А	А	А	Q											
AR03	В							М											Q	Q	Q	Q	Q	А	А	А	А	А	А	А
BB02	В														A	A	A	A	Q											
BB04	В					N.4									A	A	A	A	Q											
BB05A	В					IVI									A	A	A	A	Q											
(BISC134)	D																		Q											
BISC 133	В																		Q											
(BB09)																														
BB11	В	М	М	М			М								А	А	А	А	Q											
BB14	В														А	A	A	А	Q											
BB15										-				_																
BB16 DISC 121	В																		0											
(BB17)	в																		Q											
BB19	В	М	М	М				М	В						А	Α	Α	Α	Q											
BB22	B								_						A	A	A	A	Q											
(BISC 130)																														
BB24	В	М	М	М				Μ	В						А	А	А	А	Q											
BB26	В	M	M	M				Μ	В				-	_	A	A	A	A	Q								_			
BISC129	В																													
(DD27) BB28																														
BB31															Α	Α	Α	Α												
BB32	В	М	М	М			М	Μ	В						A	A	A	A	Q											
BB34	B	M	M	M			M	M	B						A	A	A	A	Q											
BB35																														
BB36	В							М											Q											
BISC108	В																		Q											
(BB37)	D																		0	-										
(BB38)	в																		Q											
BB39A	В														А	A	A	А	Q											
BB41	B														A	A	A	A	Q											
BB44																														
BB45																														
BB47	В														A	A	A	A	Q											
BB48	D																		0											
	в																		Q											
(1 LAB04) BB51	B																		0											
(FLAB03)	D																		<u>a</u>											
BB52	В														А	Α	Α	A	Q											
BB53	В														А	А	А	А	Q											
BB54	В														А	А	А	А	Q											
BB56	В									_			-	_	A	A	A	A	Q								_			
BL01	В				$\left \right $		M	M		+			+		A	A	A	A	Q				+							
BLUZ BL 03	B				$\left \right $					+			+						-	0	0	0	0	Δ	Δ	Δ	Δ	Δ	Δ	Δ
BL12	B		1				<u> </u>									1	1		+	Q	Q	Q	Q	A	A	A	A	A	A	A
BS01	M						М						1		А	А	А	А	Q	Q.	<u>u</u>	Q.			1	1				
BS04	Μ		1	1					1	1	1		1							Q	Q	Q	Q	А	А	A	А	А	А	A
BS10	Μ																			Q	Q	Q	Q	А	А	А	А	А	А	А
CD01A	В							М							А	Α	A	А	Q											
CD02	В																<u> </u>			Q	Q	Q	Q	A	A	A	A	A	A	Α
STATION	fcol	TP	NH3-	NOx-	Color	turb	Chl-a	0-	TKN	Cu-	Pb-	Zn-	Cd-	HRD	Cu-	Pb-	Zn-	Cd-	TSS	TDS	BOD	COD	PHEN	As	Cr	Hg	Ni	VOC	SEMI-	0-G

			Ν	Ν				TPO4		FW	FW	FW	FW	NES	SW	SW	SW	SW					OLS						VOC	
			(filt.)	(filt.)				(filt.)																						
CD05	Μ	_																		Q	Q	Q	Q	A	A	A	A	A	A	A
CD09	M	Μ	Μ	M		Μ	_	M	В	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	A	A	A	A	A	A	A
CG01	В	_					Μ	M							A	A	A	A	Q		-	-	-	<u> </u>			<u> </u>	<u> </u>		
CG07	M	_					_													Q	Q	Q	Q	A	A	A	A	A	A	A
CM02	M	_					_													Q	Q	Q	Q	A	A	A	A	A	A	A
FC03	В	_																		Q	Q	Q	Q	A	A	A	A	A	A	A
FC15	В	_					_													Q	Q	Q	Q	A	A	A	A	A	A	A
GL02	В						_													-	-	-	-	<u> </u>			<u> </u>	<u> </u>		
GL03	В	-																	-	Q	Q	Q	Q	A	A	A	A	A	A	A
LR01	M	-					M	M	_						A	A	A	A	Q		-	-	-	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>
LR05	M	M	M	M	_	M		M	В	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	A	A	A	A	A	<u> </u>	A
LR06	M	M	M	M	_	M		M	В	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	A	A	A	A	A	<u> </u>	A
LR08	M	M	M	M		Μ		Μ	В	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	A	A	A	A	A	<u> </u>	A
LR10	В															•			<u>^</u>	Q	Q	Q	Q	A	A	A	A	A	A	A
MI01	В							M							A	A	A	A	Q	0	0	0	0		•	•				
MI02	В																			Q	Q	Q	Q	A	A	A	A	A	A	A
MI03	В	-			-				-			-		-	•	•	•	•	0	Q	Q	Q	Q	A	A	A	A	A	A	A
MR01	IVI	-			-		IM	IVI	-			-		-	A	A	A	A	Q				-	+		-				
MR03	IVI N4	-					-	IVI							A	A	A	A		-				+			+		<u> </u>	
MRUS	IVI							IVI	В						^	Δ	•	•	-					+				<u> </u>	<u> </u>	
MR06	IVI							N 4	Б						A	A	A	A	0					+				<u> </u>	<u> </u>	
		-					_	IVI	В										Q	0	0	0	0		Δ	Δ				
MD45	IVI D	-					_													Q		Q		A	A	A	A	A	A	A
MW01	D	-					N.4	N.4							۸	Δ	Δ	Δ	0	Q	Q	Q	Q	A	A	A	A	A	A	A
MW04	B						IVI	IVI							A	A	A	A	Q	0	0	0	0	Δ	۸	Δ	A	^		
MW04	B	N.4	N/	N/I		N.4		N.4	P	SV.	S٧	S٨	S٧	S٨					0						A					
MW13	B	M	M	M	M	M		M	B	<u>SA</u>	<u>SA</u>	<u>SA</u>	<u>SA</u>	<u>SA</u>					0	0	0		0							
NO07A	B	IVI	IVI	111	IVI	111		IVI		54	57	57	54	57					<u>v</u>	0	0	0	0			Δ				
01.03	M																			0	0	0	0		Δ	Δ		Δ		Δ
PR01	B						М	М							Δ	Δ	Δ	Α	0	3	3	S S	3							
PR03	B						101	141												Q	Q	Q	Q	A	А	A	A	Α	Α	Α
PR04A	B	M	Μ	М		М		М	В	SA	SA	SA	SA	SA					Q	õ	õ	õ	õ	A	A	A	A	A	A	A
PR08	M	M	M	M	М	M		M	B	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	A	A	A	A	A	A	A
SK01	В						М	Μ							А	А	А	A	Q											
SK02	М																			Q	Q	Q	Q	Α	Α	Α	Α	Α	Α	Α
SK09	В																			Q	Q	Q	Q	A	Α	A	A	Α	Α	Α
SP01	В							М							А	А	Α	Α	Q											
SP04	В									1	1									Q	Q	Q	Q	Α	Α	A	A	A	Α	Α
SP08	Μ	М	М	М		М		Μ	В	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	Α	Α	А	A	А	Α	Α
TM02	В							Μ							А	А	А	Α	Q					1						
TM03A	В																			Q	Q	Q	Q	A	A	A	A	А	A	Α
TM05	М	М	Μ	М		Μ		Μ	В	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	Α	А	А	А	A	Α	Α
TM08	В	М	М	М		М		Μ	В	SA	SA	SA	SA	SA					Q	Q	Q	Q	Q	A	Α	А	A	A	A	A
WC02	Μ							Μ	В						A	А	Α	Α												
WC03	Μ																													
WC04	Μ							Μ	В										Q	Q	Q	Q	Q	A	А	А	A	A	Α	Α

M = MONTHLY: JAN - DEC; B = BIMONTHLY: JAN,MAR,MAY,JUL,SEP,NOV; Q = QUARTERLY: MAR,JUN,SEP,DEC; SA = SEMI-ANNUAL: MAR, SEP; A = ANNUALLY: MAR

Minim	ium num	iber of measured exceedances needed to	put on th	e Verifie	d list with at least 90% confidence that
		Are listed if they have at least this # of			
Sampl	e sizes	exceedances	Sample	sizes	Are listed if they have at least this # of exceedances
From	То		From	То	
20	25	5	254	262	33
26	32	6	263	270	34
33	40	7	271	279	35
41	47	8	280	288	36
48	55	9	289	297	37
56	63	10	298	306	38
64	71	11	307	315	39
72	79	12	316	324	40
80	88	13	325	333	41
89	96	14	334	343	42
97	104	15	344	352	43
105	113	16	353	361	44
114	121	17	362	370	45
122	130	18	371	379	46
131	138	19	380	388	47
139	147	20	389	397	48
148	156	21	398	406	49
157	164	22	407	415	50
165	173	23	416	424	51
174	182	24	425	434	52
183	191	25	435	443	53
192	199	26	444	452	54
200	208	27	453	461	55
209	217	28	462	470	56
218	226	29	471	479	57
227	235	30	480	489	58
236	244	31	490	498	59
245	253	32	499	500	60

Table 2: Verified List

Attachment 3

Statistical summaries by WBID for each parameter and frequencies of compliance with established State or County criteria

Parameter	Local Name	WBID Number	Count of Samples in Compliance	Total Samples (N)	Percent of Samples in Compliance	IWR-Based Evaluation	Geometric Mean	Max	95th Percentile	75th Percentile	Median	25th Percentile	5th Percentile	Min
Fecal Coliform	Little River_C7	3287	327	378	86.5	Non-Compliant	183.8	10000	1800	480	200	80	10	5
Lead	Little River_C7	3287	56	56	100	Compliant	3.159	5	5	3.1	3.1	3.1	3	3
Oil & Grease	Little River_C7	3287	20	20	100	Compliant	1.405	1.5	1.45	1.4	1.4	1.4	1.4	1.4
Phenol	Little River_C7	3287	12	12	100	Compliant	0.386	0.5	0.5	0.5	0.5	0.23	0.23	0.23
Silver	Little River_C7	3287	1	6	16.7	small N	0.93	2.4	2.4	2.4	0.9	0.7	0.2	0.2
Specific Conductance	Little River_C7	3287	1041	1047	99.4	Compliant	870.6	55100	39734	636	597	566	513	1
Turbidity	Little River_C7	3287	405	405	100	Compliant	0.925	18.3	2.9000001	1.3	0.9	0.6	0.4	0.2
Zinc	Little River_C7	3287	56	56	100	Compliant	4.394	22.7	18.1	5	4	3.3	2	1.7
Cadmium	C6_EAST	3288	30	30	100	Compliant	0.056	0.06	0.06	0.06	0.06	0.06	0.02	0.02
Copper	C6_EAST	3288	30	32	93.8	Compliant	0.282	6	5.3	0.4	0.16	0.16	0.16	0.16
Dissolved Oxygen	C6_EAST	3288	235	402	58.5	Non-compliant	4.14	39.33	7.32	5.37	4.28	3.25	2.08	1.27
Fecal Coliform	C6_EAST	3288	287	313	91.7	Compliant	178.2	6100	1200	400	200	100	10	5
Lead	C6_EAST	3288	32	32	100	Compliant	0.081	0.1	0.1	0.08	0.08	0.08	0.08	0.08
Specific Conductance	C6_EAST	3288	224	235	95.3	Compliant	3744.1	54213	46100	27221	3416	547	457	0.674
Turbidity	C6_EAST	3288	403	403	100	Compliant	1.093	4.8	2	1.4	1.1	0.8	0.6	0.3
Zinc	C6_EAST	3288	32	32	100	Compliant	0.552	0.56	0.56	0.56	0.56	0.56	0.5	0.4
Cadmium	C6_EAST	3290	22	22	100	Compliant	0.307	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	C6_EAST	3290	22	22	100	Compliant	0.715	1.1	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	C6_EAST	3290	89	186	47.8	Non-compliant	3.73	9.77	8.44	6.17	3.76	2.5	1.46	0.71
Fecal Coliform	C6_EAST	3290	178	188	94.7	Compliant	113.4	78000	820	220	120	60	10	5
Lead	C6_EAST	3290	22	22	100	Compliant	3.149	5	3.1	3.1	3.1	3.1	3	3
Oil & Grease	C6_EAST	3290	7	7	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	C6_EAST	3290	4	4	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	C6_EAST	3290	0	4	0	small N	0.959	2.2	2.2	1.7	1	0.6	0.4	0.4
Specific Conductance	C6_EAST	3290	289	291	99.3	Compliant	1663	46367	38146	7022	637	582.5	536	0.68
Turbidity	C6_EAST	3290	188	188	100	Compliant	0.892	6.7	2.2	1.4	0.8	0.6	0.4	0.3
Zinc	C6_EAST	3290	22	22	100	Compliant	4.321	20.2	13.3	6	3.9	2.7	2	1.5
Cadmium	Gables_C3	3292	22	22	100	Compliant	0.307	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Gables_C3	3292	22	22	100	Compliant	0.8	2.8	2.3	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Gables_C3	3292	53	99	53.5	Non-compliant	3.85	9.26	7.2	5.59	4.22	2.94	1.46	0.81
Fecal Coliform	Gables_C3	3292	87	98	88.8	Compliant	204.9	8100	3000	360	210	100	10	10
Lead	Gables_C3	3292	22	22	100	Compliant	3.19	5	4.1	3.1	3.1	3.1	3	3
Oil & Grease	Gables_C3	3292	7	7	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Gables_C3	3292	4	4	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Gables_C3	3292	1	4	25	small N	0.684	2.1	2.1	1.7	0.85	0.3	0.2	0.2
Specific Conductance	Gables_C3	3292	289	289	100	Compliant	524.9	623	575	548	532	517	482	19

Parameter	Local Name	WBID Number	Count of Samples in Compliance	Total Samples (N)	Percent of Samples in Compliance	IWR-Based Evaluation	Geometric Mean	Max	95th Percentile	75th Percentile	Median	25th Percentile	5th Percentile	Min
Turbidity	Gables_C3	3292	99	99	100	Compliant	2.082	14.8	6.0999999	2.6	1.9	1.5	1	0.6
Zinc	Gables_C3	3292	22	22	100	Compliant	4.678	19.5	19	6.6	4.15	3.2	1.7	1.1
Cadmium	Snapper Creek_C2	3293	41	41	100	Compliant	0.307	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Snapper Creek_C2	3293	41	41	100	Compliant	0.738	2.4	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Snapper Creek_C2	3293	60	179	33.5	Non-compliant	2.72	8.37	7.35	5.54	2.69	1.73	0.73	0.2
Fecal Coliform	Snapper Creek_C2	3293	144	154	93.5	Compliant	109.5	87000	970	420	130	20	10	10
Lead	Snapper Creek_C2	3293	41	41	100	Compliant	3.157	5	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Snapper Creek_C2	3293	14	14	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Snapper Creek_C2	3293	8	8	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Snapper Creek_C2	3293	0	8	0	small N	0.794	2.5	2.5	1.75	0.75	0.4	0.3	0.3
Specific Conductance	Snapper Creek_C2	3293	528	529	99.8	Compliant	545.2	12290	592	570	557	540	519	4
Turbidity	Snapper Creek_C2	3293	180	180	100	Compliant	0.809	16.9	1.8	1.1	0.85	0.6	0.34	0.1
Zinc	Snapper Creek_C2	3293	41	41	100	Compliant	3.754	23.4	18.3	5	3.9	2	1.1	1.1
Cadmium	Cutler_C100	3295	64	64	100	Compliant	0.307	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Cutler_C100	3295	64	64	100	Compliant	0.715	2.4	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Cutler_C100	3295	239	316	75.6	Compliant	5.54	10.31	8.9	7.68	6.57	4.09	2.4	0.78
Fecal Coliform	Cutler_C100	3295	244	253	96.4	Compliant	92.1	31000	560	250	120	40	10	2
Lead	Cutler_C100	3295	64	64	100	Compliant	3.154	5	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Cutler_C100	3295	19	19	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Cutler_C100	3295	12	12	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Cutler_C100	3295	1	12	8.3	small N	0.769	2.6	2.6	1.7	0.85	0.35	0.2	0.2
Specific Conductance	Cutler_C100	3295	917	938	97.8	Compliant	549.5	26750	750	566	541	508	436.20001	6
Turbidity	Cutler_C100	3295	279	279	100	Compliant	0.549	6.5	1.2	0.7	0.5	0.4	0.3	0.1
Zinc	Cutler_C100	3295	64	64	100	Compliant	4.117	103.8	16.1	6.55	4	2.5	1.1	1.1
Cadmium	Black Crk_C1	3297	41	41	100	Compliant	0.304	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Black Crk_C1	3297	41	41	100	Compliant	0.706	1	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Black Crk_C1	3297	151	359	42.1	Non-compliant	4.06	11.27	8.96	6.62	4.6	2.88	1.11	0.31
Dissolved Oxygen	Black Crk_C1	3297	208	359	57.9	Compliant	4.06	11.27	8.96	6.62	4.6	2.88	1.11	0.31
Fecal Coliform	Black Crk_C1	3297	131	133	98.5	Compliant	33.5	2000	380	90	30	10	10	6
Lead	Black Crk_C1	3297	41	41	100	Compliant	3.121	5	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Black Crk_C1	3297	12	12	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Black Crk_C1	3297	8	8	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Black Crk_C1	3297	1	6	16.7	small N	0.787	2.2	2.2	2	0.95	0.3	0.2	0.2
Specific Conductance	Black Crk_C1	3297	522	528	98.9	Compliant	3545.8	61928	47001.5	34644	1149	572	477.5	3
Turbidity	Black Crk_C1	3297	360	360	100	Compliant	0.811	4.4	1.7	1.1	0.8	0.6	0.4	0.3
Zinc	Black Crk_C1	3297	41	41	100	Compliant	3.282	21.3	12.1	5	3	2	1.1	1.1

Parameter	Local Name	WBID	Count of	Total Samples	Percent of	IWR-Based	Geometric	Max	95th	75th	Median	25th	5th	Min
ratattieter	Local Marrie	Number	Compliance	(N)	Compliance	Evaluation	Mean	IVIAN	Percentile	Percentile	Weulan	Percentile	Percentile	l'viili
Cadmium	Prince_C102	3300	62	62	100	Compliant	0.305	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Prince_C102	3300	62	62	100	Compliant	0.725	1.8	0.9	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Prince_C102	3300	138	266	51.9	Compliant	3.87	10.04	7.88	5.36	4.11	3.03	1.38	0.49
Dissolved Oxygen	Prince_C102	3300	128	266	48.1	Non-compliant	3.87	10.04	7.88	5.36	4.11	3.03	1.38	0.49
Fecal Coliform	Prince_C102	3300	218	221	98.6	Compliant	37.4	1820	480	80	30	10	10	2
Lead	Prince_C102	3300	62	62	100	Compliant	3.133	5	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Prince_C102	3300	22	22	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Prince_C102	3300	12	12	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Prince_C102	3300	1	9	11.1	small N	1.002	3.1	3.1	1.9	1	0.5	0.2	0.2
Specific Conductance	Prince_C102	3300	785	787	99.7	Compliant	628.5	4468	732	645	631	609	545	333
Turbidity	Prince_C102	3300	272	272	100	Compliant	0.646	14.7	3.7	1	0.6	0.4	0.2	0.1
Zinc	Prince_C102	3300	62	62	100	Compliant	3.244	23.1	12.6	4.6	3.25	2	1.1	1.1
Cadmium	Mowry_C103	3302	62	62	100	Compliant	0.305	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Mowry_C103	3302	62	62	100	Compliant	0.722	3.5	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Mowry_C103	3302	199	269	74	Compliant	4.78	10.43	9.2	7.23	5.68	3.94	1.26	0.65
Dissolved Oxygen	Mowry_C103	3302	70	269	26	Non-compliant	4.78	10.43	9.2	7.23	5.68	3.94	1.26	0.65
Fecal Coliform	Mowry_C103	3302	195	198	98.5	Compliant	22.4	3000	180	40	10	10	10	2
Lead	Mowry_C103	3302	62	62	100	Compliant	3.132	5	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Mowry_C103	3302	21	21	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Mowry_C103	3302	15	15	100	Compliant	0.314	0.5	0.5	0.5	0.23	0.23	0.23	0.23
Silver	Mowry_C103	3302	1	11	9.1	small N	0.917	2.5	2.5	1.7	1	0.5	0.2	0.2
Specific Conductance	Mowr_C103	3302	705	793	88.9	Non-compliant	805.4	36253	5136	794	635	587	531	15
Turbidity	Mowr_C103	3302	269	269	100	Compliant	0.609	8.4	1.9	0.8	0.6	0.4	0.3	0.2
Zinc	Mowry_C103	3302	62	62	100	Compliant	3.179	19.7	12.5	4.3	2.65	2	1.1	1.1
Cadmium	Aerojet_C111	3303	18	18	100	Compliant	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Aerojet_C111	3303	18	18	100	Compliant	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Aerojet_C111	3303	73	78	93.6	Compliant	6.82	10.04	9.76	8.29	7.47	6.1	3.44	2.77
Fecal Coliform	Aerojet_C111	3303	61	62	98.4	Compliant	12.6	14000	20	10	10	10	10	5
Lead	Aerojet_C111	3303	18	18	100	Compliant	3.094	3.1	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Aerojet_C111	3303	3	3	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Aerojet_C111	3303	1	1	100	Compliant	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Silver	Aerojet_C111	3303	1	3	33.3	small N	0.734	2.2	2.2	2.2	0.9	0.2	0.2	0.2
Specific Conductance	Aerojet_C111	3303	194	231	84	Non-compliant	731.2	21055	2216	794	566	519	469.39999	445
Turbidity	Aerojet_C111	3303	79	79	100	Compliant	0.664	6.3	1.8	0.8	0.6	0.5	0.3	0.3
Zinc	Aerojet_C111	3303	18	18	100	Compliant	2.81	11	11	4	2.65	1.9	1.1	1.1
Cadmium	Military	3304	40	40	100	Compliant	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Parameter	Local Name	WBID Number	Count of Samples in	Total Samples (N)	Percent of Samples in	IWR-Based Evaluation	Geometric Mean	Max	95th Percentile	75th Percentile	Median	25th Percentile	5th Percentile	Min
Copper	Military	3304	40	40	100	Compliant	0.736	5.1	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Military	3304	169	179	94.4	Compliant	7.12	13.34	10.31	8.71	7.53	6.24	3.61	2.57
Fecal Coliform	Military	3304	131	132	99.2	Compliant	16.8	1700	350	15	10	10	10	4
Lead	Military	3304	40	40	100	Compliant	3.085	3.1	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Military	3304	10	10	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Military	3304	8	8	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Military	3304	2	6	33.3	small N	0.76	2.6	2.6	2.4	0.9	0.2	0.2	0.2
Specific Conductance	Military	3304	426	533	79.9	Non-compliant	1004	60154	14982	1049	677	553	462	402
Turbidity	Military	3304	178	178	100	Compliant	0.513	3.1	0.9	0.6	0.5	0.4	0.3	0.2
Zinc	Military	3304	40	40	100	Compliant	3.485	17.9	17.25	4.5	3.3	2	1.1	1.1
Cadmium	North Canal	3305	24	24	100	Compliant	0.306	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	North Canal	3305	24	24	100	Compliant	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	North Canal	3305	68	104	65.4	Compliant	4.57	9.46	8.1	6.22	4.72	3.47	2.86	0.44
Fecal Coliform	North Canal	3305	79	81	97.5	Compliant	34.3	20000	400	70	20	10	10	4
Lead	North Canal	3305	24	24	100	Compliant	3.214	5.2	5	3.1	3.1	3.1	3	3
Oil & Grease	North Canal	3305	7	7	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	North Canal	3305	4	4	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	North Canal	3305	0	4	0	small N	0.717	2.4	2.4	1.75	0.8	0.35	0.2	0.2
Specific Conductance	North Canal	3305	301	302	99.7	Compliant	570.7	6020	614	580	570	562	509	227
Turbidity	North Canal	3305	105	105	100	Compliant	0.585	24.2	1.9	0.7	0.5	0.4	0.3	0.3
Zinc	North Canal	3305	24	24	100	Compliant	3.371	17.7	12.7	4.75	3.25	2.05	1.3	1.1
Cadmium	Florida City	3306	43	43	100	Compliant	0.307	0.5	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Florida City	3306	42	43	97.7	Compliant	0.782	13.4	1.2	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Florida City	3306	134	187	71.7	Non-compliant	5.03	14.25	8.5	6.48	5.23	3.91	2.8	1.07
Fecal Coliform	Florida City	3306	143	144	99.3	Compliant	20	1200	290	32	10	10	10	4
Lead	Florida City	3306	43	43	100	Compliant	3.153	5	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Florida City	3306	13	13	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Florida City	3306	8	8	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Florida City	3306	6	6	100	Compliant	0.877	2.3	2.3	1.5	1.05	0.4	0.3	0.3
Specific Conductance	Florida City	3306	27	27	100	Compliant	583.7	6221	736	585	562	537	493	325
Turbidity	Florida City	3306	190	190	100	Compliant	0.511	9.1	1.4	0.8	0.5	0.3	0.2	0.2
Zinc	Florida City	3306	43	43	100	Compliant	4.857	48.6	17.2	10	4.2	2.4	1.3	1.1
Cadmium	Bay South	6001	66	66	100	Compliant	0.058	0.06	0.06	0.06	0.06	0.06	0.06	0.02
Copper	Bay South	6001	168	168	100	Compliant	0.188	3	0.5	0.16	0.16	0.16	0.16	0.16
Dissolved Oxygen	Bay South	6001	1912	2084	91.7	Compliant	5.83	69.8	8.23	6.88	6.08	5.28	3.5	0.63
Fecal Coliform	Bay South	6001	1162	1179	98.6	Compliant	18	20000	230	20	10	10	10	1

Parameter	Local Name	WBID Number	Count of Samples in Compliance	Total Samples (N)	Percent of Samples in Compliance	IWR-Based Evaluation	Geometric Mean	Max	95th Percentile	75th Percentile	Median	25th Percentile	5th Percentile	Min
Lead	Bay South	6001	168	168	100	Compliant	0.081	0.1	0.08	0.08	0.08	0.08	0.08	0.08
Turbidity	Bay South	6001	2106	2106	100	Compliant	0.513	6.6	1.2	0.7	0.5	0.4	0.3	0.1
Zinc	Bay South	6001	168	168	100	Compliant	0.565	15.5	0.56	0.56	0.56	0.56	0.56	0.2
Dissolved Oxygen	Manatee Bay	6002	86	89	96.6	Compliant	6.17	8.76	8.02	6.86	6.3	5.55	4.76	2.69
Fecal Coliform	Manatee Bay	6002	66	66	100	Compliant	10.2	50	10	10	10	10	10	5
Turbidity	Manatee Bay	6002	90	90	100	Compliant	0.91	3.3	3	1.3	0.8	0.5	0.4	0.3
Cadmium	Manatee Bay	6003	3	3	100	Compliant	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Copper	Manatee Bay	6003	3	3	100	Compliant	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Dissolved Oxygen	Manatee Bay	6003	290	295	98.3	Compliant	6.08	8.95	7.9	6.9	6.2	5.58	4.51	1.86
Fecal Coliform	Manatee Bay	6003	44	44	100	Compliant	10.5	90	10	10	10	10	10	5
Lead	Manatee Bay	6003	3	3	100	Compliant	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Turbidity	Manatee Bay	6003	297	297	100	Compliant	0.945	19.6	3.5999999	1.6	0.8	0.5	0.4	0.3
Zinc	Manatee Bay	6003	3	3	100	Compliant	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Cadmium	Julia Tuttle Basn	3226H	66	66	100	Compliant	0.057	0.06	0.06	0.06	0.06	0.06	0.06	0.02
Copper	Julia Tuttle Basn	3226H	102	103	99	Compliant	0.205	4.83	0.8	0.16	0.16	0.16	0.16	0.16
Dissolved Oxygen	Julia Tuttle Basn	3226H	1151	1244	92.5	Compliant	5.54	18.72	7.38	6.41	5.77	5.05	3.56	0.01
Fecal Coliform	Julia Tuttle Basn	3226H	1111	1132	98.1	Compliant	23.5	5520	390	50	10	10	10	1
Lead	Julia Tuttle Basn	3226H	103	103	100	Compliant	0.086	1	0.1	0.08	0.08	0.08	0.08	0.08
Turbidity	Julia Tuttle Basn	3226H	1253	1253	100	Compliant	0.755	6.4	1.7	1	0.7	0.5	0.3	0.2
Zinc	Julia Tuttle Basn	3226H	103	103	100	Compliant	0.623	10.8	0.8	0.56	0.56	0.56	0.56	0.5
Dissolved Oxygen	Baker's Inlet	3226H2	248	268	92.5	Compliant	5.76	76.7	7.37	6.48	5.97	5.26	3.63	1.77
Turbidity	Baker's Inlet	3226H2	227	227	100	Compliant	0.574	3.6	1.2	0.7	0.6	0.5	0.3	0.2
Cadmium	Rickenbacker	3226H3	9	9	100	Compliant	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Copper	Rickenbacker	3226H3	35	35	100	Compliant	0.215	3	0.7	0.16	0.16	0.16	0.16	0.16
Dissolved Oxygen	Rickenbacker	3226H3	474	491	96.5	Compliant	5.58	16.28	7.12	6.39	5.73	5.12	4.22	0.09
Fecal Coliform	Rickenbacker	3226H3	213	222	95.9	Compliant	36.4	4500	700	140	10	10	10	4
Lead	Rickenbacker	3226H3	35	35	100	Compliant	0.081	0.1	0.1	0.08	0.08	0.08	0.08	0.08
Turbidity	Rickenbacker	3226H3	495	495	100	Compliant	0.581	2.6	1	0.7	0.6	0.5	0.3	0.1
Zinc	Rickenbacker	3226H3	35	35	100	Compliant	0.576	1.68	0.56	0.56	0.56	0.56	0.56	0.5
Dissolved Oxygen	Oleta	3226J	20	21	95.2	Compliant	5.59	10.16	7.26	6.48	5.83	5.22	4.84	1.54
Turbidity	Oleta	3226J	21	21	100	Compliant	0.696	1	1	0.9	0.7	0.6	0.5	0.3
Cadmium	Oleta	3226L	22	22	100	Compliant	0.318	0.5	0.5	0.3	0.3	0.3	0.3	0.3
Copper	Oleta	3226L	22	22	100	Compliant	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	Oleta	3226L	55	100	55	Non-compliant	3.94	9.69	7.06	5.22	4.18	3.16	1.85	0.81
Fecal Coliform	Oleta	3226L	75	99	75.8	Non-Compliant	346.2	3000	1800	820	460	220	10	5
Lead	Oleta	3226L	22	22	100	Compliant	3.149	5	3.1	3.1	3.1	3.1	3	3

Parameter	Local Name	WBID Number	Count of Samples in Compliance	Total Samples (N)	Percent of Samples in Compliance	IWR-Based Evaluation	Geometric Mean	Max	95th Percentile	75th Percentile	Median	25th Percentile	5th Percentile	Min
Oil & Grease	Oleta	3226L	7	7	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Oleta	3226L	4	4	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Oleta	3226L	2	3	66.7	small N	1.601	3.8	3.8	3.8	1.2	0.9	0.9	0.9
Turbidity	Oleta	3226L	99	99	100	Compliant	1.372	6.2	3.0999999	1.8	1.3	1	0.7	0.6
Zinc	Oleta	3226L	22	22	100	Compliant	3.97	17.1	11.6	5.6	4	2.9	1.5	1.2
Cadmium	Haulover Basn	3226M	19	19	100	Compliant	0.06	0.16	0.16	0.06	0.06	0.06	0.02	0.02
Copper	Haulover Basn	3226M	19	19	100	Compliant	0.198	0.4	0.4	0.3	0.16	0.16	0.16	0.16
Dissolved Oxygen	Haulover Basn	3226M	42	44	95.5	Compliant	5.67	10.9	6.95	6.53	6.14	5.74	4.74	0.29
Fecal Coliform	Haulover Basn	3226M	209	210	99.5	Compliant	15.7	900	140	10	10	10	10	1
Lead	Haulover Basn	3226M	19	19	100	Compliant	0.081	0.1	0.1	0.08	0.08	0.08	0.08	0.08
Turbidity	Haulover Basn	3226M	45	45	100	Compliant	0.534	3.9	1.3	0.8	0.6	0.4	0.2	0.2
Zinc	Haulover Basn	3226M	19	19	100	Compliant	0.53	0.56	0.56	0.56	0.56	0.56	0.2	0.2
Cadmium	Arch Creek	3226M2	41	41	100	Compliant	0.4	3	1.5	0.3	0.3	0.3	0.3	0.3
Copper	Arch Creek	3226M2	40	42	95.2	Compliant	1.062	7.8	7	1.4	0.7	0.7	0.7	0.7
Dissolved Oxygen	Arch Creek	3226M2	221	354	62.4	Non-compliant	3.67	21.96	6.84	5.68	4.74	2.8	0.88	0.22
Fecal Coliform	Arch Creek	3226M2	243	306	79.4	Non-Compliant	116.3	140000	4500	700	100	10	10	5
Lead	Arch Creek	3226M2	42	42	100	Compliant	4.084	31	15.5	3.1	3.1	3.1	3	3
Oil & Grease	Arch Creek	3226M2	12	12	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Arch Creek	3226M2	6	6	100	Compliant	0.426	0.9	0.9	0.5	0.5	0.23	0.23	0.23
Silver	Arch Creek	3226M2	3	6	50	small N	2.288	5.1	5.1	4.1	2.6	1.4	0.8	0.8
Turbidity	Arch Creek	3226M2	365	365	100	Compliant	1.26	16.2	6.4000001	3.1	1.1	0.5	0.3	0.1
Zinc	Arch Creek	3226M2	41	41	100	Compliant	5.441	24.6	21.8	10	4.3	3.9	2	1.5
Cadmium	C6_WEST	3286A	19	19	100	Compliant	0.308	0.5	0.5	0.3	0.3	0.3	0.3	0.3
Copper	C6_WEST	3286A	19	19	100	Compliant	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	C6_WEST	3286A	5	78	6.4	Non-compliant	1.75	7.3	4.36	2.68	1.74	1.11	0.68	0.6
Fecal Coliform	C6_WEST	3286A	62	63	98.4	Compliant	39.1	900	200	70	40	10	10	10
Lead	C6_WEST	3286A	19	19	100	Compliant	3.168	5	5	3.1	3.1	3.1	3	3
Oil & Grease	C6_WEST	3286A	6	6	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	C6_WEST	3286A	3	3	100	Compliant	0.298	0.5	0.5	0.5	0.23	0.23	0.23	0.23
Silver	C6_WEST	3286A	0	3	0	small N	1.075	2.3	2.3	2.3	0.9	0.6	0.6	0.6
Specific Conductance	C6_WEST	3286A	231	231	100	Compliant	651.9	775	732	676	649	631	599	551
Turbidity	C6_WEST	3286A	81	81	100	Compliant	0.441	2.7	1	0.6	0.4	0.3	0.3	0.2
Zinc	C6_WEST	3286A	19	19	100	small N	3.427	15.9	15.9	5.4	3.2	2	1.1	1.1
Cadmium	C6_EAST	3286C	21	21	100	Compliant	0.268	0.5	0.3	0.3	0.3	0.3	0.06	0.06
Copper	C6_EAST	3286C	21	21	100	Compliant	1.559	7.1	6.1	3.05	1.6	0.95	0.16	0.16
Fecal Coliform	C6_EAST	3286C	135	155	87.1	Compliant	158.9	4700	1200	500	190	50	10	5

Parameter	Local Name	WBID Number	Count of Samples in Compliance	Total Samples (N)	Percent of Samples in Compliance	IWR-Based Evaluation	Geometric Mean	Max	95th Percentile	75th Percentile	Median	25th Percentile	5th Percentile	Min
Lead	C6_EAST	3286C	21	21	100	Compliant	2.362	5	4.8	3.1	3.1	3.05	0.08	0.08
Oil & Grease	C6_EAST	3286C	6	6	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	C6_EAST	3286C	4	4	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	C6_EAST	3286C	0	3	0	small N	0.916	2.4	2.4	2.4	0.8	0.4	0.4	0.4
Zinc	C6_EAST	3286C	21	21	100	Compliant	5.868	26.3	18	8.35	6.3	4.75	0.56	0.56
Cadmium	Wagner Creek	3288A	24	24	100	Compliant	0.256	0.5	0.5	0.3	0.3	0.3	0.06	0.06
Copper	Wagner Creek	3288A	17	24	70.8	Non-Compliant	1.642	81.8	31.9	5.1	1	0.7	0.16	0.16
Dissolved Oxygen	Wagner Creek	3288A	44	269	16.4	Non-compliant	2.35	8.12	5.53	3.3	2.46	1.7	0.89	0.22
Fecal Coliform	Wagner Creek	3288A	129	269	48	Non-Compliant	899.1	100000	21000	3600	900	250	10	5
Lead	Wagner Creek	3288A	21	24	87.5	Compliant	2.777	42.3	33.6	4.3	3.1	3.05	0.08	0.08
Oil & Grease	Wagner Creek	3288A	2	2	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Wagner Creek	3288A	2	2	100	Compliant	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Silver	Wagner Creek	3288A	3	3	100	Compliant	0.773	2.1	2.1	2.1	1.1	0.2	0.2	0.2
Turbidity	Wagner Creek	3288A	269	269	100	Compliant	1.364	19	3.5	1.8	1.2	0.9	0.7	0.5
Zinc	Wagner Creek	3288A	23	24	95.8	Compliant	9.003	93.4	74.7	21.2	9.05	4.7	0.56	0.56
Dissolved Oxygen	C6_EAST	3288B	67	111	60.4	Non-compliant	4.22	20.16	6.4	5.18	4.47	3.36	2.55	0.98
Fecal Coliform	C6_EAST	3288B	17	21	81	Non-Compliant	530.7	2800	2500	590	490	300	200	180
Turbidity	C6_EAST	3288B	111	111	100	Compliant	1.038	4.2	1.8	1.3	1	0.8	0.6	0.5
Cadmium	Goulds Canl	3298A	20	20	100	Compliant	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Copper	Goulds Canl	3298A	19	20	95	Compliant	0.983	117.8	59.55	0.75	0.7	0.7	0.7	0.7
Dissolved Oxygen	Goulds Canl	3298A	84	90	93.3	Compliant	6.66	10.82	9.85	8.24	7.13	5.69	3.85	1.61
Fecal Coliform	Goulds Canl	3298A	63	67	94	Compliant	63.1	3900	960	190	70	10	10	10
Lead	Goulds Canl	3298A	20	20	100	Compliant	3.085	3.1	3.1	3.1	3.1	3.1	3	3
Oil & Grease	Goulds Canl	3298A	6	6	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Phenol	Goulds Canl	3298A	4	4	100	Compliant	0.339	0.5	0.5	0.5	0.365	0.23	0.23	0.23
Silver	Goulds Canl	3298A	1	3	33.3	small N	0.796	2.1	2.1	2.1	1.2	0.2	0.2	0.2
Specific Conductance	Goulds Canl	3298A	193	265	72.8	Non-compliant	1021.5	4520	1812	1314	1034	774	585	102
Turbidity	Goulds Canl	3298A	90	90	100	Compliant	0.847	3.2	2.4000001	1.2	0.7	0.6	0.5	0.2
Zinc	Goulds Canl	3298A	20	20	100	Compliant	3.437	18.7	15.95	4.4	3.3	2	1.2	1.1
Cadmium	L31-E	3298B1	1	1	100	Compliant	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Copper	L31-E	3298B1	1	1	100	Compliant	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Dissolved Oxygen	L31-E	3298B1	8	9	88.9	small N	6.2	8.72	8.72	8.15	7.08	4.52	3.15	3.15
Fecal Coliform	L31-E	3298B1	9	9	100	Compliant	9.2	60	60	10	10	10	2	2
Lead	L31-E	3298B1	1	1	100	Compliant	3	3	3	3	3	3	3	3
Oil & Grease	L31-E	3298B1	1	1	100	Compliant	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Zinc	L31-E	3298B1	1	1	100	Compliant	4	4	4	4	4	4	4	4

Parameter	Local Name	WBID Number	Count of Samples in Compliance	Total Samples (N)	Percent of Samples in Compliance	IWR-Based Evaluation	Geometric Mean	Max	95th Percentile	75th Percentile	Median	25th Percentile	5th Percentile	Min
Cadmium	Aerojet MBS	3303B	3	3	100	Compliant	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Copper	Aerojet MBS	3303B	16	16	100	Compliant	0.172	0.5	0.5	0.16	0.16	0.16	0.16	0.16
Dissolved Oxygen	Aerojet MBS	3303B	71	89	79.8	Compliant	4.86	7.85	7.01	5.77	5.09	4.4	2.85	1.84
Fecal Coliform	Aerojet MBS	3303B	67	67	100	Compliant	13.1	170	70	10	10	10	10	5
Lead	Aerojet MBS	3303B	16	16	100	Compliant	0.081	0.1	0.1	0.08	0.08	0.08	0.08	0.08
Turbidity	Aerojet MBS	3303B	90	90	100	Compliant	1.043	3.9	3	1.6	0.95	0.6	0.5	0.4
Zinc	Aerojet MBS	3303B	16	16	100	Compliant	0.548	0.56	0.56	0.56	0.56	0.56	0.4	0.4
Cadmium	Card Sound	6001C	3	3	100	Compliant	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Copper	Card Sound	6001C	15	16	93.8	small N	0.209	5	5	0.16	0.16	0.16	0.16	0.16
Dissolved Oxygen	Card Sound	6001C	299	309	96.8	Compliant	5.85	10.22	7.81	6.8	6.09	5.45	4.45	0.11
Fecal Coliform	Card Sound	6001C	22	22	100	Compliant	10.3	40	10	10	10	10	10	5
Lead	Card Sound	6001C	16	16	100	Compliant	0.081	0.1	0.1	0.08	0.08	0.08	0.08	0.08
Turbidity	Card Sound	6001C	309	309	100	Compliant	0.417	4.4	1.1	0.5	0.4	0.3	0.2	0.2
Zinc	Card Sound	6001C	16	16	100	Compliant	0.573	0.8	0.8	0.56	0.56	0.56	0.56	0.56

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Part VI.B.2 Evaluation of the SWMP

Have stormwater pollutant loadings discharged from the MS4 decreased? Why or why not?

As per the Surface Water Quality Discussion and Analysis report provided by Miami-Dade County for this reporting year, the Annual Geometric Mean of stormwater pollutant loadings for the Southern North Bay region, the area corresponding to the City of Miami Beach's stormwater discharges, were measured as follows:

- Chlorophyll-a 1.01 ug/l. Chlorphyll-a levels decreased by 0.116 ug/l since 2012 but remain in compliance with the established sampling limits of 1.1 ug/l.
- Total nitrogen 0.13 mg/l. Total nitrogen levels decreased by 0.01 mg/l since 2012 and are within the established sampling limits of 0.29 mg/l.
- Total phosphorous 0.004 mg/l. Total phosphorous levels decreased by 0.001 and are within the established sampling limits of 0.01 mg/l.

Which components of the SWMP are working well and are effective in reducing stormwater pollutant loadings? Why are they effective?

The components of the City of Miami Beach's Stormwater Management Program that are working well and are effective in reducing stormwater pollutant loadings include:

- 1. Roadways
 - a. The Public Works Department, Sanitation Division is responsible for ensuring the cleanliness of our parks, streets, and right-of-way. Through their daily standard operating procedures, the discharge of floatables and pollutants are reduced.
- 2. Flood Control Projects
 - a. All flood management projects include stormwater treatment and meet current Environmental Resource Permit rules of the South Florida Water Management District. Through these projects, the City's aging infrastructure is modernized with a system that controls stormwater quantity and treats water quality.
- 3. Pesticide, Herbicide, and Fertilizer Application
 - a. Parks and Recreation Department staff is properly trained in Best Management Practices (BMPs) for the storage and application of pesticides, herbicides, and fertilizers. In their application of these BMPs, the City effectively protects water quality.
- 4. Illicit Discharges and Improper Disposal
 - a. The Public Works Department, Right-of-Way and Environmental Divisions and the Code Compliance Division are responsible for conducting proactive and reactive inspections to detect, record, and address illicit discharges and improper disposal into the MS4. Through this inspection program, the City enforces and reduces these types of activities. Additionally, the Environmental Division conducts extensive public outreach and education to further reduce these types of activities.

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- 5. Public Reporting
 - a. The Public Works Department, Environmental Division, in conjunction with the Communications Department, works diligently to inform and educate the public regarding stormwater issues and BMPs. The City's public reporting program uses various communication mediums, including MBTV programming, MB Magazine articles, the City's website, e-newsletters, and educational events, to reach the wide variety of audience groups that live in or visit the area. By educating the public and generating community stewardship, the City is reducing the volume of pollutants that enter the City's waterways.

Which components of the SWMP are not working well and need to be revised to make them more effective in reducing stormwater pollutant loadings?

The City is in the process of updating a number of our standard operating procedures. Through revisiting the City's current procedures and evaluating their effectiveness the City can better align our operations to track reduction of stormwater pollutant loadings. All elements of the City's SWMP work on some level to reduce stormwater pollutant loadings; however, the City has identified room for improvement in the following activities and will work to address them in the coming reporting year:

- 1. Structural Controls and Stormwater Collection System Operation
 - a. The Public Works Department, Stormwater Operation Division is responsible for inspecting and maintaining the City's MS4. Properly maintained infrastructure reduces the discharge of pollutants and floatables and reduces flooding. The City has established a work order system in Cityworks, which allows the City to track in GIS these activities. The City will be reviewing past cleaning data to ensure that all inspection and maintenance activities are properly documented and then evaluate whether additional inspection and maintenance is necessary. Based on the results of this analysis, the City will then determine how to best leverage its existing resources to improve this program.
- 2. Construction Site Runoff
 - a. The Public Works Department, Engineering Division is responsible for reviewing and approving construction site plans. Through the plan review process, the City verifies that all construction projects within its limits are in compliance with all applicable local, state, and federal regulations, including the use and maintenance of appropriate structural and non-structural BMPs, as applicable. The City is in the process of standardizing a plan review process that is more efficient at confirming and tracking NPDES compliance of the reviewed and approved projects.
 - b. The Public Works Department, Right-of-Way Division conducts regular construction site inspections to ensure the stormwater runoff control measures are properly used and maintained, and to enforce non-compliance with the stormwater runoff control measure requirements. The City is in the process of reviewing its inspection and reporting process to improve the program's

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efficiency, documentation of non-compliance, and overall NPDES compliance of construction projects Citywide. Once the review is complete, the City will be training City staff and offering one free BMP training to contractors working in the area to reduce construction site run-off Citywide.

Which components of the SWMP do no contribute to reducing stormwater pollutant loads and could be revised or eliminated, and why?

- 1. Municipal Waste Treatment, Storage, or Disposal Facilities Not Covered by an NPDES Stormwater Permit The City of Miami Beach does not have any municipal waste treatment sites. For this reporting year, the City included the Green Waste Facility (2800 Meridian Avenue). This facility is a transfer site for yard waste. There are no drainage structures within this facility thus; it has neither a positive or negative impact on the City's MS4. Please advise if it should be included as an existing facility.
- 2. Industrial and High-Risk Runoff. There are no existing high risk facilities in the City's jurisdiction. The City will continue to monitor; however, Part III.A.8.b could be reduced to every four years.

Is the monitoring program providing data that can be used to assess the effectiveness of the SWMP in reducing stormwater pollutant loadings, assess the effectiveness of specific BMPs, and determine whether stormwater retrofitting projects should be prioritized for implementation?

The City of Miami Beach has signed an Interlocal Agreement with Miami-Dade County providing for Miami-Dade County to conduct surface water quality monitoring on behalf of the City. Miami-Dade County produces on an annual basis a Surface Water Quality Discussion and Analysis Report, which summarizes the data generated for the reporting year by the monitoring program. Miami-Dade County subdivides the County into different monitoring regions that do not necessarily coincide with municipal boundaries. The City's MS4 discharges into the Southern North Bay region of Biscayne Bay. An increase or decrease in the pollutant loadings within the region could result from the successes or failures of one or more of the region's co-permittees.

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Part III.A.2 Review of Local Codes Summary Report

In accordance with Part III.A.2 of the NPDES permit, the City has reviewed its City Code for all existing local code and regulation where areas of new development and significant redevelopment are cited. The chapters of City Code reviewed are as follows:

- Chapter 14 Building Regulations
- Chapter 54 Floods
- Chapter 58 Housing
- Chapter 82 Public Property
- Chapter 98 Streets and Sidewalks
- Chapter 110 Utilities
- Chapter 114 General Provisions
- Chapter 118 Administration and Review Procedures
- Chapter 122 Concurrency Management
- Chapter 126 Landscaping
- Chapter 130 Off-Street Parking
- Chapter 142 Zoning Districts and Regulations

Following their review, City staff compiled a list of planning strategies aimed at reducing the stormwater impacts of new development and areas of significant redevelopment and narrowed the list down to those which can be feasibly implemented during the next two permit reporting periods. These include:

- A revision to Chapter 130, Article III that calls for reductions in impervious surfaces, including requirements for pervious hardscape in parking areas.
- A revision to Chapter 126 which would increase the landscape and vegetative coverage requirements for new development and significant redevelopment projects.
- A revision to Section 142-1161 which would grant an exemption to projects that incorporate vegetated roofs so the loam/soil would not count toward the overall building height restrictions.
- A revision to Chapter 142, Article II which would approve encroachments or setbacks without the need for a variance in the installation of rain gardens or water storage planters.
- A revision to Chapter 122 which would provide incentives for infrastructure that has an added stormwater quality or other community benefit, such as an underground storage component.

If any of the above revisions do not move forward, the City will look to identify additional strategies to meet its goal of reducing stormwater impacts Citywide. Additional initiatives considered during our initial review and discussions include:

• Incentives for stormwater reuse in landscape irrigation, toilet, and urinal flushing, or in custodial uses;

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- Incentives for other forms of rainwater recycling;
- Grid pavers and other strategies for disconnection of impervious surfaces; and,
- Use of integrated natural and mechanical treatment systems, such as constructed wetlands, vegetated filters, and open channels to treat stormwater run-off.

It must be noted that these initiatives were not considered for implementation at this time because their implementation timeframe was estimated to exceed the two-year period allotted by the City's NPDES permit.

All revisions to the City Code, including those identified above, must be vetted through the proper process. Current protocol requires that the revision first be discussed by a City Committee which has purview over the issue. In this case, it is anticipated that the City's Sustainability Committee, which is an Advisory Committee, will be the first to discuss and provide input on the proposed revisions. The Sustainability Committee must then refer the item for discussion at a City Commission meeting, who may then refer the issue for further discussion to a Commission Committee, such as the Land Use and Development Committee. The length of this process can vary from a few months to a few years. While the proposed revisions were deemed feasible within a two-year timeframe based on this past year's political climate, the City is currently undergoing a political transition with the induction of a new Mayor and three new City Commissions. The City will adjust the list as feedback is received from the new City Commission and other stakeholders throughout the vetting process.