



# Alachua County Environmental Protection Department

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Chris Bird, *Director*

February 3, 2010

Sally Adkins  
City of Gainesville  
Public Works, M.S. 58  
P.O. Box 490  
Gainesville, FL 32602-0490


RE: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM QUARTERLY  
REPORT. OCTOBER - DECEMBER, 2009. FY 2010 – FIRST QUARTER

Dear Ms. Adkins:

In accordance with the Interlocal Agreement between Alachua County and the City of Gainesville for the Establishment of an Illicit Discharge Detection and Elimination Program, enclosed please find the Illicit Discharge Detection and Elimination Report for the First Quarter of Fiscal Year 2010 (October - December, 2010).

Please contact me at 264-6806 if you have any questions or need additional information.

Sincerely,



Agustin Olmos, P.E.  
Water Resources Supervisor

cc: Chris Bird (email)  
Dave Cerlanek (email)  
Ha Nguyen (email)  
Stewart Pearson (email)  
Alan Obaigbena (email)  
Anthony Dennis (email)  
Anthony Cunningham (email)

# **ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM QUARTERLY REPORT**

**OCTOBER – DECEMBER 2010  
FIRST QUARTER – FY 2010**

## **SECTION 1: PROGRAM DESCRIPTION**

On September 20<sup>th</sup>, 2001 Alachua County, the City of Gainesville, and the Florida Department of Transportation (FDOT) signed an interlocal agreement for the joint implementation of the National Pollutant Discharge Elimination System (NPDES) Phase II Municipal Separate Stormwater Systems (MS4) program in the Gainesville Urbanized Area. The agreement presented a financial plan for the implementation of the minimum control measures, including mapping requirements, public outreach, operations best management practices and illicit discharge detection and elimination program, required by the NPDES Phase II MS4 program. The agreement established the City of Gainesville as the lead agency for the joint implementation of the program.

On August 27<sup>th</sup>, 2002 Alachua County adopted the Water Quality Code. The Water Quality Code provided the regulatory framework for the implementation of the illicit discharge detection and elimination program in Alachua County. Specifically, Section 77.10 contained regulations regarding prohibitions on non-stormwater discharges into the MS4 system. The Water Quality Code became effective on January 1<sup>st</sup>, 2003.

On June 24<sup>th</sup>, 2003 Alachua County and the City of Gainesville signed an interlocal agreement for the establishment of the illicit discharge detection and elimination program. As part of the agreement, the Alachua County Environmental Protection Department (ACEPD) became the agency responsible for the implementation of the illicit discharge detection and elimination program to satisfy the NPDES Phase II MS4 permit requirements of Alachua County, City of Gainesville and FDOT. Individual NPDES Phase II MS4 permits were obtained by Alachua County on July 8<sup>th</sup>, 2003, City of Gainesville on July 8<sup>th</sup>, 2003, and FDOT on June 23<sup>rd</sup>, 2003.

This report presents a summary of the activities conducted during the First Quarter of Fiscal Year 2010 (October – December 2010) by ACEPD staff as part of the illicit discharge detection and elimination program implementation for Alachua County, the City of Gainesville and FDOT as required by their respective NPDES Phase II MS4 permits.

## **SECTION 2: BMP 3C-03. FACILITY INSPECTION PROGRAM**

In order to comply with condition BMP3 C-03 of the NPDES permit, ACEPD expanded its existing Hazardous Materials Management Code (HMMC) and Small Quantity Generator (SQG) inspection program to include compliance with the requirements of Section 77.10 of the Alachua County Water Quality Code. The expanded inspection program included visual inspection of storm drains and storm water management system in the vicinity of each facility, visual inspection of floor drains inside the facility and when necessary collection of water quality samples.

Between October – December 2010, ACEPD staff conducted a total of 183 inspections, including 145 routine and 38 follow-up inspections. Table 2.1 shows a summary of the inspections by ZIP code and Table 2.2 shows a summary of the inspection by Standard Industrial Category (SIC). No violations of the Alachua County Water Quality Code were observed during the compliance inspections. ACEPD recorded the latitude and longitude coordinates of each facility inspected for mapping purposes.

**Table 2.1 Facility Inspections by ZIP Code**

<b>Zip Code</b>	<b>Inspections</b>
32609	46
32653	23
32601	21
32606	14
32608	13
32615	12
32640	12
32607	10
32643	7
32669	7
32641	5
32694	4
32605	3
32618	3
32610	1
32616	1
32667	1
<b>Total</b>	<b>183</b>

**Table 2.2 Facility Inspections by SIC Code**

<b>SIC Code</b>	<b>Facilities</b>
7533	17
8021	13
8734	10
7538	9
7532	7
7549	6
4988	5
8011	5
3732	4
5169	4

<b>SIC Code</b>	<b>Facilities</b>
6513	4
7539	4
1771	3
2434	3
4813	3
4899	3
5091	3
5399	3
7011	3
7299	3
7342	3
742	2
1799	2
2491	2
3241	2
4812	2
4931	2
4952	2
5191	2
5211	2
7537	2
7542	2
7699	2
781	1
851	1
1629	1
1721	1
1731	1
1761	1
1781	1
2519	1
2741	1
2821	1
2869	1
2911	1
3084	1
3272	1
3273	1
3399	1
3444	1
3519	1
3549	1
3721	1
4119	1

<b>SIC Code</b>	<b>Facilities</b>
4953	1
4959	1
5012	1
5032	1
5093	1
5099	1
5172	1
5198	1
5231	1
5511	1
5541	1
5551	1
5571	1
7216	1
7379	1
7384	1
7992	1
8041	1
8062	1
8069	1
8211	1
8711	1
9221	1
9661	1
<b>Total</b>	<b>184</b>

**SECTION 3: BMP 3C-04. COMPLAINT & SPILL RESPONSE PROGRAM**

In order to comply with condition BMP3 C-04 of the NPDES permit, ACEPD expanded its existing complaint and spill investigation program to include compliance with the requirements of Section 77.10 of the Alachua County Water Quality Code. In addition to the complaints received via phone and email, ACEPD staff is also part of the Alachua County notification system that provides 24-hours a day response to spills in the County.

Between October - December, 2009, ACEPD staff responded to a total of 33 water quality related complaints and spills. Table 3.1 shows a summary of the complaints and spills investigated by Type and Table 3.2 shows a summary of the complaints and spills by ZIP code. Investigation of the above referenced incidents resulted in the issuance of four written warnings and one civil citation. ACEPD recorded the latitude and longitude coordinates of each incident investigated for future mapping purposes.

**Table 3.1 Complaints by Type**

<b>Type</b>	<b>Investigations</b>
Hazmat	15
WasteWater	8
Water Quality	7
E & S	3
<b>Total</b>	<b>33</b>

**Table 3.2 Complaints by Zip Code**

<b>Zip Code</b>	<b>Investigations</b>
32601	7
32605	3
32606	3
32608	3
32641	3
32609	3
32607	2
32615	2
32640	2
32667	2
32603	1
32643	1
32653	1
<b>Total</b>	<b>33</b>

**SECTION 4: BMP 3C-05. PUBLIC OUTREACH**

In order to comply with condition BMP3 C-05 of the NPDES permit ACEPD staff provided compliance assistance information and distributed Best Management Practices fact sheets as part of the facility inspection and complaint and spill investigation programs. ACEPD also participates in numerous public outreach events.

On October 19, 2009 staff led a water quality session focused on how children can minimize their impact on our local waterways two classes from Williams Elementary School. Water quality samples were collected as part of this project and data was delivered to the teachers to expand the learning experience. In October the eighth issue of the Wader was released and sent to almost 600 citizens. This edition discussed the Alachua County Water Conservation Initiative, the Alachua County Fertilizer Code and Irrigation Code, updated BMPs, and TMDLs. The Wader is an electronic newsletter with a focus on outreach efforts of ACEPD and its partnering organizations. On November 6,

2009 a new County Update began airing on TV12 in which staff interviewed Dr. Mark Clark on the importance of proper stormwater management. On December 11, 2009 a new County Update began airing on TV12 in which staff concentrates on water conservation and landscaping practices.

The following is a list of the existing fact sheets and BMPs distributed by ACEPD and partners:

- Water Quality Code Fact Sheet
- BMP for Erosion and Sedimentation Control at Construction Sites
- BMP for Controlling Runoff from Car Wash Fundraisers
- BMP for Controlling Runoff from Gas Stations
- BMP for Controlling Runoff from Commercial Outdoor Car Washing
- BMP for Water Quality Protection at Apartment Complexes
- BMP for Landscaping & Lawn Maintenance Services
- BMP for Controlling Runoff during the Remediation of Contaminated Sites
- BMP for Private Collection Systems
- Residential Swimming Pool Maintenance
- Pressure Washing Activities
- Laundry Services
- Food Service Industry
- Paint contractor
- Construction Project Erosion and Sediment Control
- Codes/Building Inspector Erosion and Sediment Control BMP
- Pet Waste and Water Quality
- Septic Tank BMP
- Water Conservation BMP

## **SECTION 5: SPECIAL PROJECTS**

### **Microbial Hot Spot Testing**

A Hot Spots Stakeholder group has formed to implement source detection and elimination strategies in the hot spots. The stakeholders include ACEPD, COG, GRU, and FDEP. The partners will present an update on their efforts at the Water Symposium at UF on February 25<sup>th</sup>.

ACEPD continues to conduct outfall surveys in the hot spots areas. Sweetwater Branch is currently being investigated. A section of the stormwater collection system in the Rattlesnake watershed has been identified as a source of elevated bacteria levels. Staff has worked with the COG and GRU to flush out this section of pipe. Monitoring of this area continues.

### **Pet Waste**

ACEPD is conducting The Gainesville Clean Water Partnership funded social marketing based public outreach campaign designed to convince citizens to pick up after their pets.

A final report explaining the campaign was recently uploaded to Alachua County's website. Staff is currently looking into re-running the commercials and increasing veterinarian participation.

### **Stream and Rainfall Gage Contractual Services**

The existing stream and rainfall gage network is as follows:

Hogtown Creek near Gainesville - at NW 16<sup>th</sup> Avenue  
Haile Sink on Hogtown Prairie at Hillman Residence  
Tumblin Creek near Gainesville - at SW 13<sup>th</sup> Street  
Possum Creek in Gainesville - at NW 16<sup>th</sup> Avenue  
Little Hatchet Creek near Gainesville - at SR-24 (Waldo Road)  
Rain gage No. 2 at NE 8<sup>th</sup> Avenue and SR-24 (Waldo Road)  
Rain gage No. 3 at SR-20 and SE 27<sup>th</sup> Street (formerly No.1 located at SE 1<sup>st</sup> St. and SE 5<sup>th</sup> Ave.)

Alachua County contracted with Hydrologic Data Collection, Inc. for continued rainfall and stream gage services for fiscal year 2010. Data collection for all gages (stream and rainfall) continues for an estimated cost of \$16,827.00. Stage data is collected from the recorders approximately every two months. Stage and discharge computations are delivered within 30 days of each data collection period. Computations include mean daily stage and discharge and unit values of the same at 15-minute intervals. Rainfall data is also collected on 15-minute intervals. For stream stations with only a stage recorder, efforts are being made by the contractor to conduct manual discharge measurements under a variety of flow conditions to facilitate development of an accurate rating curve.

In October 2009 SJRWMD took over the existing streamflow gage site at Hogtown Creek near Arredondo (CR30) and installed their own equipment. Hydrologic Data Collection, Inc. relocated the equipment to Haile Sink for measurement of stage. Data collection began at Haile Sink on December 15, 2009. On December 7, 2009 Hydrologic Data Collection, Inc. submitted computations of mean daily stage, discharge and rainfall for October 1, 2009 through November 30, 2009. The data provided for stream gages included the following information: unit values (15-minute interval date, gage height and discharge), primary computations (hourly stage as max, min, and mean and mean discharge), mean daily discharge and stage, hydrograph, and a daily values table. Data for rainfall stations included unit values (in 15-minute intervals) and a summary table of daily values. These data are available from ACEPD and summary data for the stations will be available on our website in the near future.

