



Alachua County Environmental Protection Department

Chris Bird, *Director*

October 30, 2008

October 31, 2008

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. JULY - SEPTEMBER, 2008. FY 2008 – FOURTH 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 Fourth Quarter of Fiscal Year 2008 (July - September 2008).

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

Sincerely,

A handwritten signature in blue ink, appearing to read "A. Olmos", is positioned above the typed name of the sender.

Agustin Olmos, P.E.
Water Resources Supervisor

cc: Chris Bird (email) Anthony Dennis (email)
 Dave Cerlanek (email) Ha Nguyen (email)
 Teresa Scott (email) Stewart Pearson (email)
 Paul Davis (email) Alan Obaigbena (email)

ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM QUARTERLY REPORT

**JULY - SEPTEMBER 2008
FOURTH QUARTER – FY 2008**

SECTION 1: PROGRAM DESCRIPTION

On September 20th, 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 27th, 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 1st, 2003.

On June 24th, 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 8th, 2003, City of Gainesville on July 8th, 2003, and FDOT on June 23rd, 2003.

This report presents a summary of the activities conducted during the fourth quarter of Fiscal Year 2008 (July - September 2008) 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 July - September 2008, ACEPD staff conducted a total of 82 inspections, including 59 routine and 23 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

Zip Code	Inspections
32609	18
32608	13
32615	12
32601	12
32618	5
32607	5
32669	4
32605	4
32643	3
32641	2
32606	2
32667	1
32616	1
Total	82

Table 2.2 Facility Inspections by SIC Code

SIC Code	Inspections
7539 - Services - Automotive Repair Shops	11
5511 - Retail Trade - New And Used Car Dealers	9
7533 - Services - Auto Exhaust System Repair Shops	9
7216 - Services - Dry Cleaning Plants	5
8021 - Services - Offices And Clinics Of Dentists	5
7538 - Services - General Automotive Repair Shops	4
7699 - Services - Repair Services	4
5231 - Retail Trade - Paint	3
6513 - Real Estate - Apartment Building Operators	3
7384 - Services - Photofinishing Laboratories	3
1541 - Construction - Industrial Buildings And Warehouses	2
5311 - Retail Trade - Department Stores	2
7342 - Services - Disinfecting And Pest Control Services	2
8011 - Services - Offices And Clinics Of Medical Doctors	2
8041 - Services - Offices And Clinics Of Chiropractors	2

8734 - Services - Testing Laboratories	2
9229 - Public Admin. - Public Order And Safety	2
1799 - Construction - Special Trade Contractors	1
2951 - Manufacturing - Asphalt Paving Mixtures And Blocks	1
3993 - Manufacturing - Signs And Advertising Specialties	1
5093 - Wholesale Trade - Scrap And Waste Materials	1
5099 - Wholesale Trade - Durable Goods	1
5198 - Wholesale Trade - Paints	1
5541 - Retail Trade - Gasoline Service Stations	1
7299 - Services - Miscellaneous Personal Services, NEC	1
7513 - Services - Truck Rental And Leasing	1
7532 - Services - Top And Body Repair And Paint Shops	1
7542 - Services - Car Washes	1
8062 - Services - General Medical And Surgical Hospitals	1
Total	82

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 July - September 2008, ACEPD staff responded to a total of 29 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 6 written warnings and 4 civil citations. ACEPD recorded the latitude and longitude coordinates of each incident investigated for future mapping purposes.

Table 3.1 Complaints by Type

Type	Investigations
Hazmat	10
Waste Water	10
Water Quality	6
Erosion and Sedimentation	2
Irrigation	1
Total	29

Table 3.2 Complaints by Zip Code

Zip Code	Investigations
32601	6
32606	4
32609	3
32608	3
32605	3
32653	2
32640	2
32615	2
32694	1
32669	1
32641	1
32618	1
Total	29

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.

In July the third edition of the Wader, which focused on water conservation, was released and sent to over 200 people. The Wader is an electronic newsletter with a focus on outreach efforts of ACEPD and its partnering organizations. On July 24th and 25th ACEPD assisted the Gainesville Clean Water Partnership in hosting the Wyland Mobile laboratory. We had a table where we asked kids to sign the Clean Water Pledge which reminded them of things they could do to protect our waterways. ACEPD had a table top with outreach materials at the Springs Celebration at Poe Springs Park on August 2nd and helped plan the event. In mid April a segment on Springs Protection was produced for County Update. This show is aired three times a day for roughly a month on TV12.

To date ACEPD staff has completed and distributed the following fact sheets:

- 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
- 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

SECTION 5: SPECIAL PROJECTS

Microbial Hot Spot Testing

In May ACEPD released the final version of the, “Fecal Coliform Bacteria, Fluorescent Whitening agents, Bacteriological Indicators, and Microbial Source Tracking Studies in Gainesville’s Urban Creeks Microbial ‘Hot Spots’ June 2004 through august 2007” report. The report is available on ACEPD’s website.

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. PBS&J has been hired to compile all of the stakeholder’s data and antidotal information to help form the strategies and has written a draft interim report. The partners met in August to discuss the strategies and are continuing to work on a plan of action.

Pet Waste

ACEPD is working on creating a social marketing campaign to address pet waste. The SWFWMD recently completed benefit and barrier research that should be applicable to the Gainesville area. Staff has obtained their research and is drafting a local social marketing campaign based on the results.

Stream and Rainfall Gage Contractual Services

The current stream and rainfall gage network is as follows:

Hogtown Creek near Gainesville - at NW 16th Avenue

Hogtown Creek near Arredondo - at SW 24th Avenue (CR 30)

Tumblin Creek near Gainesville - at SW 13th Street

Possum Creek in Gainesville - at NW 16th Avenue

Little Hatchet Creek near Gainesville - at SR-24 (Waldo Road)

Rain gage No. 2 at NE 8th Avenue and SR-24 (Waldo Road)

Rain gage No. 3 at SR-20 and SE 27th Street (formerly No.1 located at SE 1st St. and SE 5th Ave.)

Alachua County contracted with Hydrologic Data Collection, Inc. for continued rain and streamflow gage services for the last nine months of fiscal year 2008. As part of this work, two modifications to the stream (stage and discharge) and rain gage network were made: (1) moving an existing rain gage to the Lake Forest Creek watershed at the Sheriff’s Headquarters (December 3, 2007) and (2) installing and servicing a new

streamflow gage station on Little Hatchet Creek at Waldo Road (installed on February 4, 2008).

Data collection for all gages (stream and rainfall) continued throughout the remainder of the fiscal year. On October 24, 2008, Hydrologic Data Collection, Inc. submitted computations of mean daily stage, discharge and rainfall for the 2008 water year (fiscal year), October 1, 2007 through September 30, 2008, for stations located in Alachua County. The data provided included the following for each station: tables of mean daily stage and discharge with month-end statistics, a listing of mean daily stages and discharges, a listing of stage, discharge and rainfall values data at 15-minute intervals, and primary computations of stage and discharge for each station. These data are available from ACEPD and summary data for the stations will be available on our website in November 2008.

Data collection activities continue and ACEPD has a new purchase order for services with Hydrologic Data Collection, Inc. to continue servicing the gages. Stage data will be collected from the recorders approximately every two months. Stage and discharge computations will be delivered within 30 days of each data collection period. Computations will consist of mean daily stage and discharge and unit values of the same at 15-minute intervals. Rainfall data is also collected on 15-minute intervals. Data collection and reporting will continue for 12 months, October 1, 2008 through September 30, 2009 for a cost of \$17,727.00.