

LEGISLATIVE #

120430

**INTERLOCAL AGREEMENT FOR ALLOCATION AND IMPLEMENTATION
OF NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM
REQUIREMENTS**

THIS INTERLOCAL AGREEMENT (“Agreement”) made and entered into this _____ day of _____, 2012 by and between Alachua County (“County”), a charter county and a political subdivision of the State of Florida and the City of Gainesville, Florida (“City”), a municipal corporation existing under the laws of the State of Florida.

- Recitals –

WHEREAS, The City, Alachua County, and the Florida Department of Transportation District 2 (FDOT) entered into a tri-party 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 dated September 20, 2001; and

WHEREAS, The tri-party Interlocal Agreement expires on September 30, 2012; and

WHEREAS, The City and County entered into an Agreement dated June 24, 2003 to establish funding and responsibilities for an Illicit Discharge Detection; and,

WHEREAS, Upon expiration of the tri-party agreement the FDOT and County mutually agree to enter into separate Interlocal Agreements with the City to partner in programs to assist the FDOT and County in implementation of their respective NPDES Phase II MS4 Program and Permit; and

WHEREAS, The County represents that it has full power and authority to enter into this agreement in accordance with its terms; and

WHEREAS, The County has a Municipal Separate Storm Sewer System Phase II Permit #FLR04E0005 (“MS4 Permit”); and

WHEREAS, The MS4 permit requires the County to perform Public Education, Outreach and Participation, Illicit Discharge Detection and Elimination, Enhanced Mapping, and Municipal Operation Pollution Prevention and Good Housekeeping Programs; and

WHEREAS, The City agrees to partner with the County in providing services for Public Education, Outreach and Participation, Illicit Discharge Detection and Elimination, Enhanced Mapping, and Municipal Operation Pollution Prevention and Good Housekeeping Programs; and

WHEREAS, The Orange Creek Basin includes verified impaired waterbodies per the 303 (d) list of Impaired Surface Waters in the Clean Water (Section 303 (d)).; and

WHEREAS, The Florida Department of Environmental Protection (FDEP) has enacted a Total Maximum Daily Load for Impaired Waters within the Orange Creek Basin (“TMDLs”); and

WHEREAS, The Orange Creek Basin Management Action Plan (“OCBMAP”) incorporated by reference requires a management plan for meeting the TMDLs; and

WHEREAS, As MS4 permittees, the County and City are stakeholders in the OCBMAP; and

WHEREAS, The City has proposed projects for the OCBMAP; and

WHEREAS, The County is still required to meet its requirements for compliance with its MS4 Permit; and

WHEREAS, Sections 376.021, 376.30, and 403.021, Fla. Stat. (2012) provide that the preservation of surface and groundwaters is a matter of the highest urgency and priority, as these waters provide the primary source for potable water in the state; and

NOW THEREFORE, with full knowledge and understanding of the laws governing the subject matter of this Agreement, and in consideration of the foregoing recitals and the mutual covenants and conditions contained in this Agreement, the parties, intending to be legally bound hereby, acknowledge and agree as follows:

1. RECITALS AND EXHIBITS

The recitals set forth above and attached Exhibits are incorporated in and made part of this Agreement.

2. EFFECTIVE DATE

The effective date (“Effective Date”) of this Agreement shall be October 1, 2012.

3. TERM

This Agreement shall begin on effective date and shall remain in full force and effect through September 30, 2017 unless earlier terminated as provided herein.

The County's performance and obligation to pay under this Agreement is contingent upon a specific annual appropriation by the Board of County Commissioners. The parties hereto understand that this Agreement is not a commitment of future appropriations.

4. SERVICES

A. The City shall perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions hereof and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, manuals, procedures, processes, guidelines, standards and permits, as the same may be

constituted and amended from time to time, including, without limitation, those of the FDOT, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Agency, Army Corps of Engineers, United States Coast Guard and local governmental entities (“Governmental Law”).

B. The City shall be responsible for coordinating and performing services as detailed in Attachment “B” under this Agreement. The general budget shall be in accordance with Attachment “A”. (in accordance with 112.061, Florida Statutes as applicable) and the Services to be coordinated and provided shall be as described in Attachment “B”

C. The NPDES Contact Person for the City and the Director of Public Works for the County or designees as designated by each Agency, are authorized to make modifications to the required services provided so long as such changes are consistent with the intent of the program. Notice of such modifications will be agreed to by the parties as required herein.

5. TOTAL MAXIMUM DAILY LOAD

Nothing in this Agreement shall establish any current or future apportionment or percentage of any impairment or pollutant allocation for any TMDL OCBMAP reduction requirements in any water body identification (WBID) within or flowing into or from the Orange Creek basin, the City of Gainesville, or Alachua County.

6. COMPENSATION AND PAYMENT

A. MS4 Permit Requirements.

The County shall pay the City the following for coordinating and/or implementing the program detailed in Attachment “B” that addresses the Florida Department of Environmental Protection’s and US Environmental Protection Agency’s MS4 Public Education, Outreach and Participation, Illicit Discharge Detection and Elimination, Enhanced Mapping, and Municipal Operation Pollution Prevention and Good Housekeeping Program requirements as provide in Attachment “A” and for local Stream Gage Maintenance related to maintaining these requirements;

i. Public Education, Outreach/Participation and Illicit Discharge Detection/Elimination Programs

The goals of the *Public Education, Outreach and Participation Program* include increasing awareness of local water resources and stormwater collection system, reducing stormwater pollutants by changing behaviors that contribute to poor water quality’ and conducting outreach efforts designed to reach polluters through a variety of outlets to ensure exposure and increase behavior change. The program is an integrated outreach program, where each outreach activity supports the others building a comprehensive program to address target audiences. This program brings together various organizations which share some of the same goals. The goals of the

Illicit Discharge Detection and Elimination (IDDE) Program include detecting and eliminating sources of pollution to the municipal separate storm sewer system (MS4) as required by NPDES. The Alachua County Environmental Protection Department provides contractual services to help reach program goals. The total estimated cost of these programs over a five (5) year period is ONE MILLION AND ONE HUNDRED SIXTY EIGHT THOUSAND TWO HUNDRED NINETY THREE AND NO/100 DOLLARS (\$1,168,293.00). The County shall participate in the program and pay to the City an amount not to exceed TWO HUNDRED SIXTY FIVE THOUSAND THREE HUNDRED NINETY THREE AND NO/100 DOLLARS (\$265,393.00) over the five year period to maintain the programs per the Budget as outlined in Attachment A.

ii. Enhanced Mapping, Municipal Operation Pollution Prevention/Good Housekeeping and Stream Gage Maintenance Programs

The goal of the ***Enhanced Mapping Program*** is to maintain a digital map of the entire stormwater conveyance network in the Gainesville Urban Area, which includes City and County stormwater conveyance networks, for use in a Geographic Information System. The goals of the ***Municipal Operation Pollution Prevention/Good Housekeeping Program*** are to develop appropriate best management practices for existing municipal facilities and activities and to provide training resources that encourage prevention or reduction of pollutant runoff from municipal operations. In the ***Stream Gage Program***, stream gages related to maintaining NPDES and other Clean Water Act requirements have been maintained collectively by the City and County in previous agreements. Annual collection of stage, discharge, and rainfall data will continue from 2013 through 2017. The total estimated cost of these programs over a 5 (five) year period is SEVEN HUNDRED NINETY ONE THOUSAND NINE HUNDRED AND SEVENTY FIVE AND NO/100 DOLLARS (\$791,975.00). The County shall participate in the program and pay to the City an amount not to exceed TWO HUNDRED FIFTY TWO THOUSAND THREE HUNDRED AND ELEVEN AND NO/100 DOLLARS (\$252,311.00) over the five year period to maintain the programs per the budget as outlined in Attachment A

B. The County's portion of any unobligated funds from the 2003-2012 Agreement shall be credited towards the County's payments. The estimated balance of the County's portion of unobligated funds is \$432,706.00.

C. Not later than November 1, 2012, the City shall verify the amount of unobligated funds being held by the City. These funds will be a credit against the total not to exceed amount of five hundred seventeen thousand, seven hundred and four dollars (\$517,704.00) due under this agreement. Payment to the City will be made quarterly in the amount of \$25,885.20.

D. Expenditure of funds by the City shall be made in accordance with the terms and provisions of this Agreement. The City shall provide a statement to the County no later than 45 days after the end of each fiscal quarter documenting the direct cost incurred in providing the services

required hereunder. The City shall include such backup and documentation to support the invoice as shall be reasonably required by the County. Payments shall be made by the County within twenty-five (25) business days of receipt of a City invoice in compliance with this Agreement.

E. No later than December 1 following the end of a fiscal year (September 30th of the contract term, the City will provide the County with a reconciliation of the cost of the program incurred to date. If the cost of the program, during the prior year has been less than the funding provided by the County (whether such funding is from use by the City of the unobligated funds, additional monies above the unobligated credit or some combination) is less than the amount paid to the City for services provided that amount will be shown as an additional credit to County's obligation for funding. In no case will the County's obligation (whether as unobligated credit or additional funding) exceed \$517,704.00 for the term of the Agreement.

Within one (1) month of the termination of this Agreement, City will provide a reconciliation to the County. Any funds that have not been expended by September 30, 2017, will be returned to the County.

7. LIABILITY

Each party shall be solely responsible for the negligent or wrongful acts of its employees and agents.

Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the parties' sovereign immunity protections, or as increasing the limits of liability set forth in §768.28, Florida Statutes, as the same may be amended from time to time.

It is understood that each partner is responsible for meeting its own individual permit conditions. This Agreement is to provide services that the County has agreed will help meet its Permit requirements.

8. NOTICE

All notices, communications and determinations between the parties hereto and those required by the Agreement, including, without limitation, changes to the notification addresses set forth below, shall be in writing and shall be sufficient if mailed by regular United States Mail, postage prepaid, to the parties at the following addresses:

County: Attention: Public Works Director
 Alachua County Public Works Department
 5620 NW 120th Lane
 Gainesville, FL 32653

City: Attention: Assistant Public Works Director
City of Gainesville
405 NW 39th Avenue
Gainesville, FL 32609

A copy of any notice, request or approval to the County must also be sent to:

J. K. Irby
Clerk of the Court
12 SE 1st Street
Gainesville, FL 32602
ATTN: Finance and Accounting

and

Office of Management and Budget
105 Se 1st Avenue, Suite 6
Gainesville, Florida 32601
Attn: Contracts

9. GOVERNING LAW

This Agreement shall be governed by and construed in accordance with the laws of the State of Florida.

10. INITIAL DETERMINATION OF DISPUTES

The City Manager shall act as the initial arbiter of all questions, difficulties, and disputes concerning the interpretation, validity, performance or breach of this Agreement.

11. VENUE AND JURISDICTION

A. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of the Agreement that are not resolved to the mutual satisfaction of the parties by the City Manager shall lie exclusively in a state court of appropriate jurisdiction in Alachua County, Florida.

12. JURY TRIAL

The parties hereby waive the right to trial by jury of any dispute concerning the interpretation, validity, performance or breach of the Agreement, including, without limitation, damages allegedly flowing from the same.

13. ASSIGNMENT

The parties shall not assign, pledge or transfer any of the rights, duties and obligations provided in this Agreement without the prior written consent of the other party. Nothing herein shall prevent the City from delegating its duties hereunder, but such delegation shall not release the City from its obligation to perform the Agreement.

14. THIRD PARTY BENEFICIARIES

This Agreement shall be binding upon and inure to the benefit of the undersigned parties and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for in the Agreement.

15. VOLUNTARY EXECUTION OF AGREEMENT

Each party warrants and represents to the other: (i) that it understands all of the rights and obligations set forth in the Agreement and the Agreement accurately reflects the desires of said party; (ii) each provision of the Agreement has been negotiated fairly at arm's length; (iii) it fully understands the advantages and disadvantages of the Agreement and executes the Agreement freely and voluntarily of its own accord and not as a result of any duress, coercion, or undue influence; and (iv) it had the opportunity to have independent legal advice by counsel of its own choosing in the negotiation and execution of the Agreement.

16. ENTIRE AGREEMENT

This instrument, together with any exhibits and documents made part hereof by reference, contains the entire agreement of the parties and no representations or promises have been made except those that are specifically set out in the Agreement. All prior and contemporaneous interlocal agreements, joint participation agreements, conversations, negotiations, possible and alleged agreements and representations, covenants, and warranties with respect to the subject matter of the Agreement, and any part hereof, are waived, merged herein and superseded hereby. If there is any conflict between this Agreement and any prior interlocal agreement, joint participation agreement, or supplemental agreement this Agreement shall supersede.

17. EXECUTION OF DOCUMENTS

The parties agree that they shall promptly execute and deliver to the other all documents necessary to accomplish the intent and purpose of the Agreement and shall do all other acts to effectuate the Agreement.

18. SUFFICIENCY OF CONSIDERATION

By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in the Agreement and forever waive the right to object to or otherwise challenge the same.

19. WAIVER

The failure of either party to insist on the strict performance or compliance with any term or provision of the Agreement on one or more occasions shall not constitute a waiver or relinquishment thereof and all such terms and provisions shall remain in full force and effect unless waived or relinquished in writing.

20. INTERPRETATION

No term or provision of the Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.

21. SEVERANCE

If any section, paragraph, clause or provision of the Agreement is adjudged by a court, agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of the Agreement shall remain in full force and effect and the parties shall be bound thereby so long as principle purposes of the Agreement remain enforceable.

22. COMPUTATION OF TIME

In computing any period of time prescribed in the Agreement, the day of the act, event or default from which the designated period of time begins to run, shall not be included. The last day of the period shall be included unless it is a Saturday, Sunday or legal holiday, in which event the period shall run until the end of the next day which is not a Saturday, Sunday or legal holiday.

23. MODIFICATION OF AGREEMENT

A modification or waiver of any of the provisions of the Agreement shall be effective only if made in writing and executed with the same formality as the Agreement.

24. PUBLIC RECORDS

The Parties understand and agree that all documents of any kind provided in connection with this Agreement are public records and are treated as such in accordance with Florida law.

25. EFFECT OF AGREEMENT

The parties shall offer this Agreement as evidence in any and all proceedings concerning any subject matter of this Agreement, and, if acceptable to the Court, will cause a copy of the

Agreement to be incorporated by reference in the judgment rendered. Notwithstanding incorporation in the judgment, this Agreement shall not be merged in it, but shall survive the judgment and be binding on the parties for all time.

26. ANNUAL APPROPRIATION

A. The County shall authorize services based upon priority and availability of budget. Execution of this Agreement does not guarantee that the work will be authorized.

B. The City agrees that in the event the funds are not appropriated to the County then this Agreement may be terminated. County shall notify the City in writing within thirty days of the date County is notified by the Commission the funds shall not be appropriated. Upon notification by County that funds are not appropriated and this Agreement is terminated the City shall no longer be obligated to provide services not yet rendered. Nothing in this termination clause shall exempt the City from continuing to provide services already paid for by the County.

Either party to this Agreement may terminate with 200 days notice prior to the beginning of the next fiscal year, if either party determines, in its sole discretion, that it is in its interest to do so. Upon termination, the City will cease all work and return to the County any unexpended funds provide by the County.

27. RECORDKEEPING

Throughout the term of this Agreement and for a minimum of five (5) years. or fifteen (15) years if related to a capital improvement project, after the completion of all work to be performed, or as required by Chapter 119, Florida Statutes (Public Records Act) and schedules published by the Florida Bureau of Archives and Records Management, or federal requirements, whichever shall be greater (The “retention period” the City shall maintain all such records and documents including but not limited to records of costs incurred by the City, general accounting and all other supporting documents. Copies of these documents shall be furnished to County upon request. The City shall provide the County any and all reports, technical documents, and compliance documents related to this Agreement Upon expiration of the retention period and written request by the City, the County’s Public Works Director shall approve in writing the destruction of documents.

28. RECORDING OF AGREEMENT

The County, upon execution of this Agreement by all parties, shall record this Interlocal Agreement in the public records of Alachua County, Florida.

IN WITNESS WHEREOF, intending to be legally bound hereby, the parties hereby execute this Agreement,

Alachua County Board of County Commissioners

Attest:

By: _____
Paula M. DeLaney, Chair

By: _____
J. K. Irby, Clerk
(seal)

Date: _____

Approved as to Form

By: _____
Alachua County Attorney

City of Gainesville

Attest:

By: _____

By: _____

Printed Name: _____ Russ Blackburn _____

Printed Name: _____

Title: _____ City Manager _____

Title: _____

Date: _____

Date: _____

STATE OF FLORIDA
COUNTY OF ALACHUA

The foregoing instrument was acknowledged before me this _____ day of _____, 2012, by _____, who is personally known to me, or who produced _____ as identification.

Approved as to Form and Legality:

City Attorney

ATTACHMENT A**Attachment A - NPDES Program Budget 2013-2017**

Program Area	FY2013	FY2014	FY2015	FY2016	FY2017	Total
Public Outreach	\$107,165	\$109,876	\$112,586	\$115,297	\$118,008	\$562,932
Illicit Discharge	\$115,651	\$118,362	\$121,072	\$123,783	\$126,493	\$605,361
Part A Total	\$222,816	\$228,238	\$233,658	\$239,080	\$244,501	\$1,168,293
Enhanced Mapping	\$69,727	\$69,727	\$69,727	\$69,727	\$69,727	\$348,635
Good Housekeeping	\$69,930	\$69,930	\$69,930	\$69,930	\$69,930	\$349,650
Stream Gage Maintenance	\$18,000	\$18,360	\$18,730	\$19,110	\$19,490	\$93,690
Part B Total	\$157,657	\$158,017	\$158,387	\$158,767	\$159,147	\$791,975
Total	\$380,473	\$386,255	\$392,045	\$397,847	\$403,648	\$1,960,268

Budget Share Allocation

	FDOT Contribution	City Contribution	County Contribution	Totals
Part A				
Public Outreach	\$184,500	\$250,000	\$128,432	\$562,932
Illicit Discharge	\$201,000	\$267,400	\$136,961	\$605,361
Total Part A	\$385,500	\$517,400	\$265,393	\$1,168,293
Part B				
Enhanced Mapping	NA	\$240,000	\$108,635	\$348,635
Good Housekeeping	NA	\$243,450	\$106,200	\$349,650
Stream Gage Maintenance	NA	\$56,214	\$37,476	\$93,690
Total Part B		\$539,664	\$252,311	\$791,975
Total Contribution	\$385,500	\$1,057,064	\$517,704	\$1,960,268

Payment Schedule

	2013	2014	2015	2016	2017	TOTAL
FDOT*	\$73,500	\$75,300	\$77,100	\$78,900	\$80,700	\$385,500
CITY	\$205,390	\$208,756	\$211,528	\$214,306	\$217,084	\$1,057,064
ALACHUA COUNTY	\$103,541	\$103,541	\$103,541	\$103,541	\$103,541	\$517,704

*The FDOT contribution amount is included for reference; the City has entered into a separate agreement with the FDOT

ATTACHMENT B: Purpose and Scope

Services to be provided may include but are not limited to the following:

Gainesville Clean Water Partnership Public Outreach Program

Purpose and Goals

Runoff from homes, businesses and governmental agencies can contain harmful pollutants. Implementation of targeted Best Management Practices (BMPs) in residential, commercial and public areas can reduce polluted runoff. Citizens from many walks of life must therefore become aware of these BMPs. Making a change in the community from pollution-generating behaviors to pollution-preventing behaviors requires education. When people know, understand, and change how they do things, polluted runoff problems can be solved.

To specifically meet requirements of respective NPDES permits, the GCWP is required to:

“Implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.”

Additionally, to meet requirements of the Illicit Discharge detection and Elimination Minimum Control measure, permit holders must also:

“Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.”

The goals of the GCWP Public Outreach Program are subsequently to increase awareness of our water resources and stormwater collection system and to reduce stormwater pollutants by changing behaviors that contribute to poor water quality.

Campaigns related to targeted behaviors seek to increase knowledge, change behavior, and reach diverse audiences encouraging pollution prevention behaviors and discourage behaviors that add pollution to local waterways.

General Program Design and Implementation

The GCWP fosters an integrated stormwater pollution prevention outreach program, where each outreach activity supports the others building a comprehensive program for target audiences. Each program outlined below addresses a program goal, targets an audience, determines the intended action and identifies lead agencies and/or organizations.

The GCWP is unique in that it brings together various organizations which share some of the same goals of the GCWP. The IFAS Extension Florida Friendly Landscapes Program (FFL), Alachua County Environmental Protection Department (ACEPD), and Current Problems Inc. (CPI) provide contractual services to help reach the goals of the partnership. Other potential partners are also noted in these

programs. There are various programs, described below, that build upon one another to achieve program goals.

Core Programs

Best Management Practices

A series of pamphlets outlining best management practices (BMPs) covering a wide range of stakeholders and behaviors for reducing stormwater pollutants has been developed. Pamphlets are distributed at public events and at public locations such as the offices of ACEPD, City of Gainesville Public Works and Morningside Nature Center (MNC), and IFAS Extension. Pamphlets are sent via direct mail to specific target audiences as needed (i.e.- a pamphlet outlining BMPs for pools was sent to homeowners with pools in 2010). Pamphlets are also distributed at some topic specific locations (i.e.- pamphlets explaining pet waste BMPs are distributed at veterinarian offices and pet adoption centers).

Goal- *Increase knowledge on how to reduce an individual's impacts on stormwater pollution*

Minimum Control Measure – 1a, 3d

Audience – *General and various target; Countywide*

Action- *Target a specific audience each year with a direct mailing and/or by stocking appropriate locations with the pamphlets.*

Evaluation- *Number of pamphlets distributed*

Implementation- *COGPW, ACEPD, CPI, FFL, MNC*

Online Outreach

www.GainesvilleCreeks.org, www.AlachuaCountyWater.org, www.CurrentProblems.org, and www.floridayards.org engage the public and provide information on why and how to reduce stormwater pollution to protect our water resources. Social media outreach may also be conducted associated with these programs and promoted on these websites.

Goal- *Increase knowledge of why and how to protect our water resources*

Minimum Control Measure – 1a

Audience – *General and various target; Urban Area (gainesvillecreeks.org) and Countywide (other online outreach)*

Action- *Keep websites current and up to date, annual gainesvillecreeks updates/redesign*

Evaluation- *Number of hits per page/video, # of friends/subscribers*

Implementation- *COGPW, ACEPD, CPI, FFL*

Utility Bill Inserts

Stormwater pollution prevention information will be inserted into utility bill statements and

distributed to all City of Gainesville (COG) and select Alachua County (AC) residents within the Gainesville Regional Utilities (GRU) service area.

Goal- *Increase knowledge of why and how to protect our water resources*

Minimum Control Measure – 1a

Audience – *GRU service area*

Action- *Insert stormwater pollution prevention information into utility bill statement newsletters*

Evaluation- *Number of inserts distributed*

Implementation- *COGPW*

Public Events

Informational tables are set up at public events stocked with pamphlets and written materials. The tables are often staffed with volunteers or staff for more in depth discussions about the targeted messages. Messages include stormwater, landscaping choices, and general water quality and/or quantity issues.

Goal- *Increase knowledge of why and how to protect our water resources and receive feedback on concerns about local water concerns*

Minimum Control Measure – 1a

Audience- *General and various target; Countywide*

Action- *Continue to participate in events and develop interactive displays*

Evaluation- *Number of events and interactions*

Implementation- *COGPW, ACEPD, CPI, FFL*

Homeowner Based Florida Friendly Landscaping Education Program

There are over 84,000 single family homes in Alachua County. Homeowners have many misconceptions about proper landscape management, care and maintenance. They often do not realize that they are wasting water, fertilizer, and pesticides by poor management practices and landscape design. Further, they are not aware that poor management practices can contribute to the degradation of the environment through runoff, and leaching of fertilizers and pesticides. Homeowners are often unaware of water conservation, integrated pest management, yard waste recycling and other environmental landscape management practices that can be used in their landscapes and gardens. Poorly maintained landscape can reduce property values 15%, and contribute to stormwater runoff and non-point source pollution.

The purpose of this Florida Friendly Landscaping™ Program is to educate and help homeowners to conserve energy and water, minimize fertilizer and pesticide use, and to decrease non-point source pollution originating in home landscapes. This is achieved by educating them to the FFL principles and helping them to adopt those practices.

Goal- Educate homeowners about Florida Friendly Landscaping™ principles and practices

Minimum Control Measure – 1a

Audience- Home and property owners/leasers, Gardeners; Countywide

Action- Maintain contract with Alachua County IFAS Extension Office to administer program

Evaluation- Track # of participants for seminars, garden tours, table exhibits; track FFL information kiosks, demonstration landscapes; track # of landscape brochures, new homeowner packets, residential newsletters distributed, track # of Facebook friends, track number hits on informational videos.

Implementation- FFL

Stormdrain Markings

Many residents do not understand that stormdrains lead to our creeks, lakes, and stormwater basins. Marking stormdrains with a marker pointing out the fate of materials that are discharged into the drain is a great volunteer project for groups looking to give back to their communities.

Goal- Increase knowledge of stormwater pollutants. Engage citizens.

Minimum Control Measure – 2a

Audience- General; Urban Area

Action- Develop program to continue storm drain marking efforts

Evaluation- Number of markers installed and number of volunteers

Implementation- COGPW

Adopt A Waterway Program

This program is designed to involve residential property owners, neighborhood groups or other civic groups in a waterway cleanup program. Citizens/groups who are not waterway side property owners may participate in the program by adopting sections of waterways having public access. Adopt-A-Waterway groups will participate in cleanup events at designated sites. A Waterway Leader is trained to organize each group. This program also includes a number of waterway cleanups at sites that have public access, and are not adopted by a group. Cleanups serve to illustrate the stormwater problem perhaps best of all.

Goal- Remove pollution from local waterways. Engage citizens.

Minimum Control Measure – 2a

Audience- General; Countywide

Action- Maintain contract with Current Problems Inc to administer program

Evaluation- Track collection data (lbs trash removed/recycled, number of volunteers, volunteer hours)

Implementation- CPI

Restore A Shore Program

CPI will implement the Restore-A-Shore Program for the purpose of promoting healthy shorelines on water bodies of all types and in all situations, be it residential, business, agriculture, forestry, conservation or government. The goal will be to encourage and assist property owners to better protect water quality and wildlife habitat on lakes and ponds, rivers and creek, springs and sinks, canals and drainage ditches, marshes and swamps. CPI will seek to make changes in citizens' habits of shoreline landscaping and lifestyle to further the stated goal. CPI will support Restore-A-Shore projects on an as-needed basis any year within Alachua County. CPI will also distribute useful information to interested waterfront residents and those living in neighborhoods with stormwater ponds and conveyances.

Goal- *Increase knowledge of stormwater pollutants. Engage citizens.*

Minimum Control Measure – 2a

Audience- *General; Countywide*

Action- *Maintain contract with Current Problems Inc to administer program*

Evaluation- *Track # of citizens assisted, # outreach materials distributed.*

Implementation- *CPI*

Clean Up Events

The City and County participate in volunteer based clean-up events throughout the reporting period. Volunteers pick up litter at open spaces and along roadways.

Goal- *Involve public in pollution prevention practices*

Minimum Control Measure – 2a

Audience- *Home and property owners/leasers, Businesses; Volunteer groups*

Action- *Maintain an active City Adopt-A-Road Program and City/County participation in the Great American Clean Up*

Evaluation- *Track number if volunteers and amount of litter collected*

Implementation- *COGPW, ACPW*

Commercial Landscaper Based Florida Friendly Landscaping Education Program

A statewide survey indicates that Florida citizens rank water pollution as their number two concern. Government regulatory and public pressures are demanding that landscapes require less fertilizer, water and pesticides to minimize adverse environmental effects. Landscapers lack sufficient knowledge of native and drought tolerant plants, integrated pest control and efficient irrigation design. This program strives to have landscapers improve the quality of their work to meet professional standards as a result of training and certification programs. Landscapers adopt and apply Florida Friendly Landscaping™ principles to minimize fertilizers, water, pesticide use, and adverse environmental effects.

The purpose of the program is to help landscape professionals conduct business more professionally, efficiently, and safely, while protecting the environment. The value of landscape installation and maintenance in Alachua County is estimated at over \$30 million annually. The industry continues to grow steadily and the number of professionals involved in landscaping has increased. However, the work done is too commonly not up to professional standards, or along Best Management Practices as defined in the Green Industries BMP Handbook guidelines. Certification and trainings are lacking. Through the Commercial Landscaper Based Education Program, FFL provides these trainings and certification while introducing FFL principles.

Goal- *Educate and certify landscape professionals in Florida Friendly Landscaping™ principles and practices*

Minimum Control Measure – 3d

Audience- *Landscape professionals; Countywide*

Action- *Maintain contract with Alachua County IFAS Extension Office to administer program*

Evaluation- *Track # of landscape professionals certified; track # hits to commercial webpage; track # of landscaping professionals subscribing to Commercial Newsletter; demonstrate results of focus group; demonstrate development of Certified Horticulturalist program for FFL Practices.*

Implementation- *FFL*

Program Development and Assessment

Hands On Stormwater Elementary Classroom Outreach

This project involves engaging elementary level students in exploring solutions to non-point source pollution through classroom instruction, a field trip to a local enhanced stormwater basin, and hands-on activities such as the installation of rain barrels and the creation of a small rain garden within their school grounds to provide long-term teaching opportunities. The completed program includes four interactive teaching modules:

1. A classroom presentation on non-point source pollution
2. A field trip to a local stormwater treatment wetland
3. A classroom planning workshop on building the rain garden, and
4. A workday for the creation of an outdoor exhibit.

The program will serve as a demonstration project to educate residents on the importance of reducing pollution and runoff and provide examples of low cost techniques that can be employed to achieve this goal.

Goal- *To increase students' knowledge of non-point source pollution in order to promote behavioral changes that reduce pollution and provide examples to students and the community of low cost techniques such as installing rain barrels and creating a rain garden that can further reduce runoff impacts. One elementary school will be targeted for this project each year.*

Minimum Control Measure – 1a

Audience- *Youth (elementary school age), teachers; Urban Area*

Action- Develop partnerships and plan to carry out program so it is ready to be implemented in 2013 (Individual schools, UF Wetlands Club, School Board, Plant nurseries)

Evaluation- Outcome evaluations will include a questionnaire or test for students to complete prior to and following project completion, to track and measure progress in understanding the subject and developing critical thinking. Outcome focused questions will provide insight into how the program is benefiting participants and meeting the short term outcomes of increasing students' knowledge of the subject and determining students' attitudes and intentions towards increased environmental stewardship.

Implementation- ACEPD, COGPW

Stormwater Classroom Presentations

ACEPD has developed interactive presentations which use curriculum standards to address the importance of reducing stormwater pollution and protecting water resources. The curriculum will be offered to the teachers through their professional development program to facilitate a deeper understanding of the importance of water resources by the teachers. ACEPD staff will visit classrooms to deliver these programs and other requested presentations (Enviroscape, Aquifer model, etc).

Goal- Increase knowledge of why and how to protect our water resources

Minimum Control Measure – 1a

Audience- Youth, (elementary school age); Countywide

Action- Deliver programs

Evaluation- Number of presentations delivered and feedback provided from teachers

Implementation- ACEPD, COGPW

Science Night

Work with one elementary school to conduct age appropriate classroom presentations with a goal of reaching every child during the months leading up to Science Night. During Science Night the parents and children are invited to the school to enjoy dinner, educational games designed to teach about preventing stormwater pollution and protecting water resources (reinforcing concepts learned during the earlier classroom presentations), and live entertainment.

Goal- Increase adult's and children's knowledge of why and how to protect our water resources

Minimum Control Measure – 1a

Audience- Elementary youth and their families; Urban Area

Action- Conduct a Science Night at one school per calendar year

Evaluation- Number of attendees

Implementation- ACEPD, FYN, CPI, COGPW

Camp Programs

Local camp programs (summer, afterschool and/or school breaks) are often looking for environmental activities and speakers. ACEPD and COG Nature Operations (COGNO) staff may be able to work with campers and offer hands on learning activities to teach kids about stormwater pollution, water resources protection, and environmental stewardship. COGNO will promote these activities annually at the City's Earth Academy Day Camp.

Goal- *Increase knowledge of why and how to protect our water resources*

Minimum Control Measure – 1a

Audience- *Elementary youth; Countywide*

Action- *Participate in a minimum of 5 events per year*

Evaluation- *Number of events and audience reached*

Implementation- *ACEPD, COGNO*

Program Development and Assessment**Program Development (Overall)**

The GCWP has the need to develop and pilot projects for later full scale implementation using various methods for getting stormwater messages out to the public. Pilot projects may be designed to target specific behaviors and or audiences or to promote a specific practice. Grant opportunities exist for outreach projects with community and agency partners evaluation of the opportunities may lead to a broader outreach program.

Goal- *Evaluate the effectiveness and value of potential program projects and activities*

Minimum Control Measure – 1-6

Audience- *General and various target; Countywide*

Action- *Develop and implement pilot studies and evaluate grant activities; implement as full scale project and apply for grant funding where applicable*

Evaluation- *NA*

Implementation- *COGPW, ACEPD*

Baseline Stormwater Awareness Survey (Overall)

The GCWP has various methods for getting stormwater messages out to the public. It is often difficult to determine if these messages are effective in influencing public perceptions and behaviors. A baseline survey should be conducted every three to five years to help determine the effectiveness of programs and general citizen awareness of water concerns. The baseline survey could also be used as pre-campaign data for future special studies and projects.

Goal- *Evaluate GCWP Program's effectiveness*

Minimum Control Measure – 1-6

Audience- *General and various target; Urban Area*

Action- Develop survey and implement in 2013 and 2017

Evaluation- Raw data collection and final report on baseline survey

Implementation- COGPW, ACEPD

Targeted Homeowner Campaigns

Pet Waste Campaign

The GCWP contracted with ACEPD to design, implement, and evaluate a pet waste social marketing campaign for encouraging citizens to scoop, bag, and trash pet waste at home and in the community. The initial campaign was launched in 2009. The 2009 campaign evaluation indicated that 10% of the respondents that recalled the campaign changed their behavior as a result of the campaign. The two 15 second commercials will be periodically re-run on cable and the network stations and campaign magnets will be re-ordered and delivered to veterinarian offices in Alachua County as necessary. Bag dispensers may be purchased for distribution at adoption centers.

Goal- Reduce nutrients and fecal coliform in water bodies by decreasing the amount of pet waste left on the ground

Minimum Control Measure – 1a, 3d

Audience- Pet owners; Countywide

Action- Re-run commercials and keep veterinarian offices stocked with magnets and pamphlets

Evaluation- Survey. Number of impressions from commercials. Calculations based on survey results and pet waste study.

Implementation- ACEPD

Grass Clippings Campaign

The GCWP contracted with ACEPD to design, implement, and evaluate a social marketing campaign for encouraging lawn care professionals and citizens to keep grass clippings and leaves out of the stormwater collection system. Research was conducted in 2010 and the campaign launched in 2011. The campaign includes a 30 second television commercial, a 60 second radio ad, two posters, a postcard, hats, temporary campaign signs, and vehicle magnets. The media campaign will be re-run periodically.

Goal- Reduce nutrients in water bodies by decreasing the amount of nutrients leached from decaying clippings. Reduce stormwater collection system maintenance and clogging by reducing the volume of clippings and leaves.

Minimum Control Measure – 1a, 3d

Audience- Homeowners, Landscape professionals, Municipal employees; Countywide

Action- Re-run the media campaign twice during the contract period and distribute materials at the Green Industries BMP trainings conducted by IFAS Extension

Evaluation- Self reported behavior change and street sweeper data from City of Gainesville Public Works

Implementation- ACEPD

Dormant Season Landscaping Behaviors

ACEPD has proposed to create a media campaign to reduce the application of fertilizers and irrigation in the dormant winter season. The campaign will be developed using a literature review of what we know about landscaping in Florida.

Goal- Reduce nutrients in water bodies by decreasing the amount of fertilizers applied. Reduce over- irrigation.

Minimum Control Measure – 1a, 3d

Audience- Homeowners, Landscape professionals; Countywide

Action- Develop campaign in 2014 and implement in the following years of the contract period.

Evaluation- Self reported behavior change survey, visual irrigation survey, and qualitative data

Implementation- ACEPD

Associated Costs

PUBLIC OUTREACH TOTALS	FY2013	FY2014	FY2015	FY2016	FY2017
	\$107,165	\$109,876	\$112,586	\$115,297	\$118,008

Gainesville Clean Water Partnership Illicit Discharges Detection and Elimination Program

Purpose and Goals

The purpose of the Illicit Discharge Detection and Elimination (IDDE) Program is to detect and eliminate sources of pollution to the municipal separate storm sewer system (MS4) as required by the Clean Water Partnership member individual permits.

The goal of this plan is to identify and then eliminate illicit discharges. Examples of illicit discharges include:

- Direct or indirect sanitary wastewater discharges that connect to the storm sewer or watercourse, such as a shop floor drain connected to a storm drain, a crossconnection between

the municipal sanitary sewer and storm sewer systems, a damaged sanitary sewer line that is leaking sewage into a cracked storm sewer line, or a failing septic system that is leaking into a water course.

- Materials (e.g., used motor oil) that have been dumped illegally into a storm drain catch basin or other stormwater facility.
- Improper home or business owner activities such as washing paint brushes into a catch basin, washing new textured concrete driveways into a storm drain, draining swimming pools to the storm system (swimming pools have high pH and chlorine), excess use of fertilizers, or washing cars with chemicals that enter the storm drain system.

Additional goals of the IDDE program include:

- Improve water-quality in local waterways by reducing incidences of pollution to MS4s
- Increase awareness among businesses and the general public of the direct connection between the MS4 and local waterways
- Educate businesses and the general public of the hazards associated with illicit discharges and the best management practices (BMPs) available
- Facilitate consistency in response to incidences of discharges of pollutants to the stormwater system

According to the Generic Permit for Discharge of Stormwater from Phase II Municipal Separate Storm Sewer Systems, the operator of the Phase II MS4 must:

a. Develop, implement and enforce a program to detect and eliminate illicit discharges (as defined by Rule 62-624.200(2)) into the Phase II MS4 including:

- (a) Develop, if not already completed, a storm sewer system map, showing the location of all known outfalls and the names and location of all surface waters of the State that receive discharges from those outfalls;*
- (b) To the extent allowable under State or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-stormwater discharges into the storm sewer system and implement appropriate enforcement procedures and actions;*
- (c) Develop and implement a plan to detect and address non-stormwater discharges, including illegal dumping, to the system; and,*
- (d) Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.*

b. Acceptable efforts may include but are not limited to:

(a) Ensuring that the plan to detect and address illicit discharges include the following four components: procedures for locating priority areas likely to have illicit discharges; procedures for tracing the source of an illicit discharge; procedures for removing the source of the discharge; and procedures for program evaluation and assessment.

(b) Conducting visual screening of the outfalls during dry weather and conducting field tests of selected pollutants as part of the procedures for locating priority areas.

c. The operator of the Phase II MS4 must define appropriate BMPs for this minimum control measure and measurable goals for each BMP. In the context of this minimum control measure, the term BMP is understood to include activities and programs undertaken to implement the illicit discharge elimination efforts required under this generic permit.

General Program Design and Implementation

1. BMP 3a. Develop a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the United States that receive discharges from those outfalls.

Description: The County, City and FDOT have developed a storm sewer base map for the area covered by the permit (please see Mapping Program attachment). ACEPD will develop and maintain a database to keep track of all events associated with the Illicit Discharge Detection and Elimination Plan (IDDEP) including, but not limited to, facility inspections, complaint investigations and emergency response (spills) incidents. The database will keep track of information such as date, time, location, site description, analytical and in-situ data results, enforcement information and other applicable data. The database will be developed and maintained in a format compatible with the one selected by the Clean Water Partnership to report results as required in the FDEP NPDES Phase II Permit. Summary reports will be submitted to the CITY on a quarterly basis.

Measurable Goal: Development and maintenance of IDDEP database. Map illicit connections removed, map illicit discharges identified.

Implementation Schedule: Ongoing and to be continued for the duration of the program.

2. BMP 3b Prohibit, through an ordinance or other regulatory mechanism, non storm water discharges into the storm sewer system and implement appropriate enforcement procedures and actions.

Description: The adopted Alachua County Water Quality Ordinance (WQO) includes a prohibition on non-stormwater discharges into the storm sewer system. Violations of the WQO will be enforced using the civil citation provisions of Chapter 162, Part II, Florida Statutes and Chapter 24 of the Alachua County Code.

Measurable Goal: Adoption of the Water Quality Ordinance.

Implementation Schedule: Completed

3. BMP 3c-1: Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to the system. *Facility Inspection Program*

Description: Expand the Hazardous Materials Management Code (HMMC) facility inspection program to include inspections for potential violations of non-storm water discharge MS4 prohibitions at regulated facilities. All violations identified during the expanded inspections will be enforced using the provisions of the Water Quality Ordinance. The expanded inspection program will include visual inspection of

storm drains and storm water management system in the vicinity of the facility, visual inspection of floor drains inside the facility and if necessary collection of water quality in-situ parameters and testing.

Measurable Goal: There are approximately 1100 regulated hazardous materials storage facilities in Alachua County. ACEPD will conduct expanded inspections on at least 20 % of the regulated Hazardous Materials Facilities each year of the program. Follow-up inspections will be conducted as needed. Report the number of hazardous materials storage facilities inspected. Report the number of follow-up inspections made. Report the number of illicit connections removed. Report the number of illegal discharges observed.

Implementation Schedule: Ongoing and to be continued for the duration of the program.

4. BMP 3c-2: Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to the system. *Citizen Complaint Investigation Program*

Description: Expand the ACEPD complaint investigation and response program to include investigation and response to violations of non-storm water discharge MS4 prohibitions. All violations identified during complaint investigations will be enforced using the provisions of the Water Quality Ordinance and the Hazardous Materials Management Code.

Measurable Goal: Respond and document all complaints received involving potential violations of non-storm water discharge MS4 prohibitions. The complaint investigation program will include site inspections and if necessary collection of in-situ parameters and water quality sampling and testing. ACEPD estimates 60 NPDES related complaints per year. Follow-up inspections will be conducted as needed. Report the number of illicit connection or discharges complaints received. Report the number of investigations completed. Report the number of illicit connections removed.

Implementation Schedule: Ongoing and to be continued for the duration of the program.

5. BMP 3c-3: Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to the system.

Description: Develop procedures for locating priority areas likely to have illicit discharges; procedures for tracing the source of an illicit discharge; procedures for removing the source of the discharge; and procedures for program evaluation and assessment.

Measurable Goal: Using data and information gathered as part of BMP 3a-1, 3c-1 and 3c-2 conduct surveys, inspections and environmental sampling at high risk areas. Studies include, but are not limited to, outfall reconnaissance investigations, "Hot Spot" fecal coliform monitoring, stormwater pond water, sediment and outfall sampling, hydrodynamic separator evaluation, stormwater quality assessments, and street sweepings assessment.

Implementation Schedule: Ongoing and to be continued for the duration of the program.

6. BMP 3d: Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

Description: In addition to enforcing the prohibition on non-storm water discharges into the storm sewer system, ACEPD will provide regulated facilities and other responsible parties with appropriate compliance assistance information and available fact sheets developed by the Clean Water Partnership regarding the NPDES MS4 program as part of the field activities outlined in BMP#3c-1 and - #3c-2.

Measurable Goal: Keep records of BMP, compliance assistance information, fact sheets distributed and

public presentations as part of the implementations of BMP #3c-1 and #3c-2. Report number and type of compliance assistance and fact sheet distributed.

Implementation: Ongoing and to be continued for the duration of the program.

Associated Costs

Illicit Discharge Detection and Elimination Program	2013	2014	2015	2016	2017
	\$115,651	\$118,362	\$121,072	\$123,783	\$126,493

Gainesville Clean Water Partnership

Illicit Discharge Detection and Elimination Mapping Program

Purpose and Goals

The purpose of this program is to maintain Geographic Information System (GIS) data for the entire stormwater conveyance network in the Gainesville Urban Area. This data will serve as a tool for IDDE, municipal inventory, planning and maintenance. The mapping program meets requirements of several NPDES Minimum Control Measures (MCMs) as outlined below:

The Illicit Discharge Detection and Elimination (IDDE) MCM is meant primarily to detect and eliminate untreated discharges that contribute high levels of pollutants that can significantly degrade receiving water quality and threaten aquatic, wildlife and human health. To specifically meet requirements of respective NPDES permits for the IDDE MCM, the GCWP is required to:

“Develop, if not already completed, a storm sewer map, showing the location of all known outfalls and the names and location of all surface waters of the State that receive discharges from these outfalls.”

Additionally, to meet requirements of the Post Construction Stormwater Management Minimum Control measure, permit holders must also:

“Require adequate long-term operation and maintenance of BMPs.”

Finally, to meet requirements of the Pollution Prevention and Good Housekeeping Minimum Control measure, permit holders must also:

“Develop and implement an operation and maintenance program that has the ultimate goal of preventing or reducing pollutant runoff from MS4 operator activities, such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.”

Recognizing these requirements, the rule requires an operator of a regulated small MS4 to:

- ◆ Develop geographic data for all outfall structures in the Gainesville Urban Area as determined by the 2010 US Census;
- ◆ Develop geographic data for all stormwater system infrastructure in the Gainesville Urban Area;
- ◆ Develop geographic data for all stormwater BMPs (including ponds) in the Gainesville Urban Area;

- Develop geographic data for all surface waters both in the GUA as well as any adjacent TMDL watersheds in Alachua County.

The advantages of having representative updated digital hydrography GIS files are many. These data allow Gainesville to better model water quantity scenarios as well as trace water quality problems. Mapping also assists with water quality studies (see appendices for examples). With many challenges facing our urban watersheds, such as natural or man-influenced disasters or daily threats such as increased impervious areas and decreased vegetative buffers along natural waterways causing property flooding and high pollutant loads from stormwater runoff, and the water quality requirements this region faces with Total Maximum Daily Load Program (TMDL) requirements, it is important to model Gainesville's watersheds to seek the best management solutions to achieve healthier watersheds.

The ultimate goal of this data collection effort is to integrate these different data into a comprehensive model such as the Geographic Watershed Information System (GWIS) that can be used for planning, pollution tracking and analysis and to make this data accessible to operations, enforcement and engineering staff in a user friendly format.

General Program Design and Implementation

Inventory (MCM 3a)

Inventorying the MS4 consists of collecting the position and data of various elements of the MS4 System. These mapping elements include:

- Capture of LiDAR data
- Capture and maintenance of outfall data
- Capture and maintenance of gravity main data
- Capture and maintenance of inlet data
- Capture and maintenance of ditch and natural channel data
- Capture and maintenance of pond data
- Capture and maintenance of structural BMP data
- Capture and maintenance of watershed data

The size and scope of the inventory element of the program requires planning and use of every available data source to reduce the time needed, avoid duplication of effort, ensure consistent quality of data, and efficiently use labor assets.

For each area needing to be inventoried, research takes place to verify that the area has not been previously mapped, or if there are available construction plans, CAD files, or other existing data that can be used in lieu of field work. If field work is required, either a GPS unit or survey crews are used to collect the necessary information depending on the land surface, complexity of the area, and general safety concerns.

The GCWP has inventoried the MS4 under the general rule that the less field work, the less time it will take to cover a particular area. Using that premise, the Mapping Technician first uses any electronic drawings that are available for their accuracy and ease of importing into a GIS. Secondary choice is digitizing features using paper plans, with field work being the final option.

In terms of accuracy, the direct importing of digital plans into GIS is inherently more accurate if done correctly. Using the GPS for field collection requires post processing to obtain accurate locations of the points, and can be affected by tree canopy or tall buildings blocking satellite signals.

Office and field work (MCM 3a)

Various methods and tools are used for hydrologic mapping in the office and field. Below is a brief description of each method/tool used within the realms of work required. The Mapping Technician maintains detailed standard operating procedures for each method/tool.

Methods and tools include:

- ♣ Transferring data from CAD drawings to a GIS
- ♣ Transferring data from engineering plans to a GIS
- ♣ Geographic Positioning System (GPS) Unit
- ♣ Differential Leveling
- ♣ General Surveying

Data maintenance (MCM 3a)

Existing data is also constantly checked, and is also replaced if more recent, or more accurate information becomes available. Development and redevelopment also changes the MS4 system, and these changes are also captured through periodic updates.

New data comes from many formats including: CAD files, paper plan sets, scanned plan sets or PDF's. The various formats are imported into GIS using BMP's for each data type.

Data is also collected by the City's Operations crew members who are constantly inspecting and maintaining stormwater structures. This data is then forwarded to the Mapping Technician in the form of paper maps with notes, and digitally through the field laptop pilot program. Coordination with Operations on a weekly basis is maintained in order for this work flow to function efficiently and effectively.

Quality Assurance (MCM 3a)

Through inventory guidelines, the best available data is captured within the stormwater GDB. Through updates and field checks, quality is maintained. Older data is verified and replaced as needed. GIS generated heat maps made by querying specific data elements are used to find focus areas where critical data is needed or to improve efficiency of data collection. The structure of the GDB itself is checked through a flowchart diagram of the GDB itself where duplication and outdated domains, feature classes, and subtypes can be removed or updated.

End User Accessibility (MCM 3a)

In addition to having the data available through digital and hardcopy formats on request, a new pilot program utilizing laptops for operations crews has been implemented. The Partnership has purchased 3 laptops to be used in the field by Operations crew members. These laptops are equipped with geopdf's of all of our maintenance areas broken up by quarter quad. The geopdf's contain basic base map information including road names and parcel outlines. The geopdf's also contain all of the stormwater structures within the stormwater database. The operations crews can use these geopdf's as digital maps which they can add notes and comments to regarding stormwater structures. These geopdf's with comments are returned to the Mapping Technician to import into the stormwater geodatabase as edits that aid in the QA/QC process. The geopdf's allow for data to be accurately projected and imported back into the stormwater geodatabase.

Reporting and Record Keeping (General Permit)

All MS4 related inventory data will continue to be housed at the COG Public Works dept. The GDB itself is updated monthly and available to the partners, including FDOT and ACPW, on the City of Gainesville FTP, as well as on request. Data sources for all features are recorded within the attribute data of each feature class. This allows the editors to know what data may be eligible for updates, as well as what data is the most accurate. End users can know what sources the feature originated from. Scanned plan sets are kept on file, as well as CAD files, and are available upon request.

The NPDES Map technician is also responsible for all mapping related to the NPDES and TMDL programs. Such mapping requests may include but are not limited to maps for reports, storm drain marking events, and other NPDES program areas (Public Outreach and Participation, Illicit Discharge Detection and Elimination, Post Construction Controls, and Municipal Good Housekeeping).

Associated Costs

MAPPING TOTALS	FY2013	FY2014	FY2015	FY2016	FY2017
	\$69,727	\$69,727	\$69,727	\$69,727	\$69,727

Gainesville Clean Water Partnership**Municipal Good Housekeeping and Training Program****Purpose and Goals**

The Pollution Prevention and Good Housekeeping Minimum Control Measure (GHMCM) is meant primarily to improve or protect receiving water quality by altering municipal or facility operations.

To specifically meet requirements of respective NPDES permits for the GHMCM , the GCWP is required to:

“Implement a program to reduce pollutant runoff from municipal operations and properly and perform staff pollution prevention training.”

Additionally, to meet requirements of the Illicit Discharge detection and Elimination Minimum Control measure, permit holders must also:

“Inform public employees of hazards associated with illegal discharges and improper disposal of waste.”

Recognizing the benefits of pollution prevention practices, the rule requires an operator of a regulated small MS4 to:

- ♣ Develop and implement an operation and maintenance program with the ultimate goal of preventing or reducing pollutant runoff from municipal operations into the storm sewer system;
- ♣ Include employee training on how to incorporate pollution prevention/good housekeeping techniques into municipal operations and how to detect and report illicit and non-stormwater discharges;
- ♣ Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure.

General Program Design and Implementation

Training regarding stormwater best management practices (BMPs) and principles will be offered to all applicable municipal staff . Inventory, training and outreach provides clear guidance on how to use appropriate stormwater practices during typical maintenance operations and facility management activities. Following are programs that will work to provide municipal staff the guidance and resources needed to prevent stormwater pollution.

Inventory (MCM 6a)

Municipal facility inventory and inspections

A map of City and County facilities will be maintained. This data will include the types of activities performed at City, County and GRU facilities, pollutants of concern, and associated permits and certifications,. The Gainesville Clean Water Partnership will work with facility contacts to provide guidance and resources needed to prevent stormwater pollution.

BMP development, maintenance and tracking (MCM 6a)

Maintenance BMPs

Maintenance BMPs have been developed maintained and tracked to meet program goals. These BMPs are outlined in the City and County NPDES permit Stormwater Management Plans.

Maintenance BMPs include street sweeping, storm sewer pipes, ditches, inlets, stormwater

ponds, municipal service centers, integrated pest management, pet waste stations, and fleet maintenance. These BMPs will be maintained and documented to meet permit requirements.

Spill prevention and management

Spill kits may be supplied to applicable areas by request. Spill prevention and management training is offered by the GCWP.

Equipment maintenance

The City and County maintain Fleet Management Centers and Small Equipment Maintenance areas and use BMPs to prevent stormwater pollution from these activities.

Facilities maintenance

All City and County facility maintenance practices should use BMPs appropriate for each facility. The GCWP offers assistance to departments to develop BMPs if not already developed and training to assist in employee awareness of these BMPs.

Illegal Dumping Control

The City and County utilize the Stormwater Hotline to report any illegal dumping they may encounter in the field.

Training(MCM 6b)

Trainings offered by the Gainesville Clean Water Partnership to target staff

Below are trainings offered by the Gainesville Clean Water Partnership designed to meet requirements. These trainings are made available through the City of Gainesville, Gainesville Regional Utilities and Alachua County Safety Training Programs. In addition to these trainings, the GCWP provides funding for external trainings for City staff that are NPDES related.

Existing employee training:

On the Lookout for Illicit Discharges

Rain Check: Stormwater Pollution Prevention for MS4s

Storm Watch: Municipal Stormwater Pollution Prevention

Stormwater Pollution Prevention; A Drop in the Bucket

SPCC: Oil and Water Do Not Mix

Spills and Skills, Non-Emergency Haz Mat Spill Response

Ground Control: Stormwater Pollution Prevention for Construction Sites

Florida Stormwater, Erosion and Sedimentation Control Inspector Training and Certification Program

Specialized Presentations

- ♣ Introduction to Partnership and municipal requirements of Clean Water Act
- ♣ Specialized shorter presentations added on to existing safety courses for specific work areas.

Discussion including introduction of Creek Crime Hotline and Alachua County Water Quality Code requirements; handouts included.

Safety Programs

The GCWP works with existing Safety Programs to deliver pollution prevention messages and trainings. These programs provide venues where all employees are motivated to attend.

New Employee Orientation

While new employees receive orientation on an individual basis that caters to the specific job they are performing, the GCWP will work to incorporate BMP information into New Employee orientation packets for City and County employees.

Progression Through Training

The GCWP collaborates with existing PTT programs to distribute stormwater pollution prevention BMP information to employees.

Municipal Employee BMP

Municipal Employee BMP/ IDDE outreach tools can serve to train employees at the City and County that do not receive personalized training through their division. This information can be distributed by the City and County to train to remind employees of the role we all play in water pollution prevention.

Additional training development

The GCWP is seeks to provide the best up to date information regarding good housekeeping practices. This includes purchase or development of new updated training materials as needed. One such example is the development of an online training module for GRU Energy Supply staff who work consecutive shifts making gathering all employees for training difficult.

Tools and prompts (MCM 6b)

Employee Guidance Tools

BMP information regarding stormwater pollution prevention may be distributed to applicable staff. BMP information may be in hard copy or electronic format and can serve as a tool to field and office employees.

Stormwater hotline

The County maintains a “Creek Crime Hotline” and a smart phone app for reporting illicit discharges. This hotline reports to ACEPD inspectors who can respond to reports and follow enforcement actions if necessary. Municipal employees are informed use this hotline to report potential illicit discharges if they witness them in the field.

Other Incentives and Prompts

Incentives and prompts are good tools to remind and encourage municipal employees to practice BMPs. The GCWP will continue to develop and distribute incentives and prompts to encourage the success of the program.

Reporting and Record Keeping

Records of BMP maintenance and other program elements are collected from City and County staff by the GCWP on an annual basis. These records are maintained at the COG Public Works Department. Record keeping requirements are outlined in City and County NPDES permits.

Associated Costs

OPERATIONS BMPs TOTALS	FY2013	FY2014	FY2015	FY2016	FY2017
	\$69,930	\$69,930	\$69,930	\$69,930	\$69,930

Stream and Rain Gage Network Services**Introduction and Description of Stations and Services**

Alachua County will provide rainfall and stream gage services at selected sites in the Gainesville urban area (see list below). The existing network consists of four stream gaging stations, one water level (stage only) station and two rain gages. 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 to conduct manual discharge measurements under a variety of flow conditions to facilitate development of an accurate rating curve.

The existing stream and rainfall gage network as of July 2012 is as follows:

Hogtown Creek near Gainesville - at NW 16th Avenue
 Haile Sink on Hogtown Prairie at Hillman Residence (stage only)
 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 Rain gage No.1 located at SE 1st St. and SE 5th Ave.)

The data provided for stream gages includes 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 includes unit values (in 15-minute intervals) and a summary table of daily values. These data are available from ACEPD and summary data for the rainfall and stream stations and will be made available on our website once they have been reviewed and approved.

Cost Estimate for Contract Years 2013-2017

The following estimate of cost is based on use of the existing network:

Gage Location	2013 Water Year*
Hogtown Creek at 16 th Avenue	\$3,000.00
Tumblin Creek at SW 13 th Street	\$3,000.00
Possum Creek at 16th Avenue	\$3,000.00
Little Hatchet Creek at SR-20	\$3,000.00
Haile Sink near Arredondo (on Hogtown Prairie)	\$2,000.00
Rain gage No. 2 at NE 8th Avenue and SR-24	\$2,000.00
Rain gage No. 3 at SR-20 and SE 27 th Street	<u>\$2,000.00</u>
	Total \$18,000.00

*Water Year runs October 1 through September 30

ACEPD anticipates a cost increase of approximately 2% per year.

2014 Water Year - increase approximately 2.0 % over 2013 Water Year or \$18,360.00

2015 Water Year - increase approximately 2.0 % over 2014 Water Year or \$18,730.00

2016 Water Year - increase approximately 2.0 % over 2015 Water Year or \$19,110.00

2017 Water Year - increase approximately 2.0 % over 2016 Water Year or \$19,490.00

The estimated total cost for the five year contract period is \$93,690.

The cost to operate and maintain these stations is based on a minimum of six visits per year to each station. Costs are based on estimates by Hydrologic Data Collection, Inc., the vendor who has been providing this service to ACEPD. Stage and rainfall data will be collected from the recorders about every two months. Stage, discharge and rainfall computations will be completed within 30 days of each data collection period. Computations will consist of mean daily stage and discharge and the recorded unit values at 15-minute intervals. Rainfall computations will consist of total daily rainfall and unit values of rainfall recorded at 15 minute intervals.

Network Station Refinement and Changes

ACEPD periodically reviews station locations for surface water flow and stage data that are collected by other agencies, e.g. St. Johns River Water management District, the Florida Department of Environmental Protection and the US Geological Survey, so as not to duplicate data collection efforts. ACEPD is available to implement changes to the above described network as agreed upon by the Gainesville Clean Water Partnership to provide the most beneficial data collection program for the partners.