

FINAL

2014 PROGRESS REPORT

for the Lower St. Johns River Basin Tributaries Basin Management Action Plan II

prepared by the
Division of Environmental Assessment and Restoration
Water Quality Restoration Program
Florida Department of Environmental Protection
Tallahassee, FL 32399

in cooperation with the
Lower St. Johns River Tributaries Basin Working Group

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This 2014 Lower St. Johns River Tributaries BMAP II Progress Report was prepared as part of a statewide watershed management approach to restore and protect Florida's water quality. It was prepared by the Florida Department of Environmental Protection in cooperation with the Lower St. Johns River Tributaries BMAP II stakeholders.



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LIST OF ACRONYMS AND ABBREVIATIONS

ARV	Air Release Valve
BMAP	Basin Management Action Plan
BMP	Best Management Practice
CARE	Citizen Action Response Effort
CCTV	Closed-Circuit Television
CDBG	Community Development Block Grant
C.F.R.	Code of Federal Regulations
CFU	Colony Forming Unit
CIPP	Cured In Place Pipe
CMOM	Capacity, Management, Operations, and Maintenance
COJ	City of Jacksonville
DCP	Drainage Connection Program
Department	Florida Department of Environmental Protection
EQD	Environmental Quality Division
EPA	U.S. Environmental Protection Agency
FDOH	Florida Department of Health
FDOT	Florida Department of Transportation
FOG	Fats, Oils, and Grease
GIS	Geographic Information System
HDPE	High Density Polyethylene
I&I	Inflow and Infiltration
IDDE	Illicit Discharge Detection and Elimination
IMZ	Industrial/Manufacturing Zone
LF	Linear Feet
LSJR	Lower St. Johns River
MF	Membrane Filter
mL	Milliliter
MPN	Most Probable Number
MS4	Municipal Separate Storm Sewer System
MSMP	Master Stormwater Management Plan
NPDES	National Pollutant Discharge Elimination System
NS	Naval Station
OSTDS	Onsite Sewage Treatment and Disposal System
PBTS	Performance-Based Treatment and Disposal System
PIC	Potential Illicit Connection
PSA	Public Service Announcement
RCP	Reinforced Concrete Pipe
SCADA	Supervisory Control and Data Acquisition
SSO	Sanitary Sewer Overflow
SWIM	Surface Water Improvement and Management
TAT	Tributary Assessment Team
TMDL	Total Maximum Daily Load
TV	Television
WBID	Waterbody Identification

SUMMARY

TOTAL MAXIMUM DAILY LOADS

TMDLs are water quality targets for specific pollutants (such as fecal coliform) that are established for impaired waterbodies that do not meet their designated uses based on Florida water quality standards. The Florida Department of Environmental Protection identified 75 tributaries in the Lower St. Johns River (LSJR) Basin as verified impaired for fecal coliforms. The LSJR Tributaries Basin Management Action Plan II includes 15 of these 75 impaired tributaries. The department adopted TMDLs in 2006 for Williamson Creek, Moncrief Creek, and Wills Branch. It adopted TMDLs in 2009 for McCoy Creek, Deep Bottom Creek, Blockhouse Creek, Sherman Creek, Pottsburg Creek, Middle Trout River, and Lower Trout River. In addition, the department adopted TMDLs in 2010 for Craig Creek, Fishing Creek, Hopkins Creek, Cormorant Branch, and Greenfield Creek.

The LSJR Tributaries BMAP II was adopted by Secretarial Order in August 2010 as a plan to implement these TMDLs. This 2014 Progress Report is the fourth annual progress report for the LSJR Tributaries BMAP II, and it describes the activities implemented by the stakeholders during the reporting period from January 1, 2014, to December 31, 2014.

PROJECT AND PROGRAM IMPLEMENTATION

All of the entities continued to implement their countywide or citywide programs. These include the maintenance and repair of infrastructure to help reduce the fecal coliform loading that can occur with faulty or failing systems. In addition, the city of Jacksonville completed drainage improvement projects in McCoy Creek, Williamson Creek, Fishing Creek, Moncrief Creek, Cormorant Branch, Middle Trout River, and Lower Trout River. The city of Atlantic Beach completed sewer line upgrades and manhole rehabilitation, as well as a stormwater improvements project in Sherman Creek. In June 2014, the Florida Department of Transportation started the implementation of mandatory illicit discharge detection and elimination (IDDE) training for all staff and contractors working in its rights-of-way.

SECTION 1: INTRODUCTION

1.1 PURPOSE OF THE REPORT

This is the fourth annual Progress Report for the Lower St. Johns River (LSJR) Tributaries Basin Management Action Plan II. It contains information for the period from January 1, 2014, to December 31, 2014. **Section 2** provides information on BMAP water quality monitoring and trends in each of the 15 BMAP II tributaries. **Section 3** describes ongoing programs implemented by the responsible stakeholders in the LSJR Basin. **Section 4** through **Section 18** provide status updates for the activities conducted by each entity in each of the BMAP tributaries.

1.2 TOTAL MAXIMUM DAILY LOADS IN THE TRIBUTARIES OF THE LSJR BASIN

The LSJR Tributaries BMAP II includes the 15 tributaries (see **Figure 1**) with adopted TMDLs, identified as the segments with waterbody identification (WBID) numbers with the worst-case condition for fecal coliforms, after those tributaries included in BMAP I. This worst-case determination was made using a ranking method that establishes the severity of water quality impairment based on the number of exceedances of fecal coliform colony counts. The water quality ranking method uses the total number of fecal coliform samples in the waterbody during the period of record to categorize how many samples were over 800, 5,000, and 10,000 colony-forming units per 100 milliliters (CFU/100mL). A combined rank is then created based on the number of exceedances in each category. The WBIDs are sorted from worst to best to provide a guideline for assessment priorities, with the worst-case waterbody ranked first.

The water quality criterion for fecal coliform bacteria is detailed in Chapter 62-302, Florida Administrative Code (F.A.C.). The requirements for exceeding maximum fecal coliform concentrations in a Class III waterbody are stated as follows: *The most probable number (MPN) or membrane filter (MF) counts per 100 milliliters (mL) of fecal coliform bacteria shall not exceed a monthly average of 200, nor exceed 400 in 10% of samples, nor exceed 800 on any one day.* The criterion states that monthly averages shall be expressed as geometric means based on a minimum of 10 samples taken over a 30-day period. However, there were insufficient data (fewer than 10 samples in a given month) available to evaluate the geometric mean criterion for fecal coliform bacteria. Therefore, the criterion selected for the TMDLs was not to exceed 400 CFU/100mL in 10% of the samples.

The fecal coliform TMDLs for Williamson Creek, Moncrief Creek, and Wills Branch were adopted by the Florida Department of Environmental Protection in 2006. In 2009, it adopted the TMDLs for McCoy Creek, Deep Bottom Creek, Blockhouse Creek, Sherman Creek, Pottsburg Creek, Middle Trout River, and Lower Trout River. In 2010, the department adopted the TMDLs for Craig Creek, Fishing Creek, Hopkins Creek, Cormorant Branch, and Greenfield Creek. **Table 1** lists the TMDLs adopted by rule and the pollutant load allocations for the 15 BMAP II tributaries.

TABLE 1: TMDLS FOR THE LSJR TRIBUTARIES INCLUDED IN BMAP II

WBID NUMBER	WBID NAME	WASTELOAD ALLOCATION FOR WASTEWATER	WASTELOAD ALLOCATION FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER (% REDUCTION)	LOAD ALLOCATION (% REDUCTION)
2297	Craig Creek	Not applicable	87%	87%
2257	McCoy Creek	Not applicable	84%	84%
2316	Williamson Creek	Not applicable	83%	83%
2324	Fishing Creek	Must meet permit limits	69%	69%
2361	Deep Bottom Creek	Not applicable	82%	82%
2228	Moncrief Creek	83%	83%	83%
2207	Blockhouse Creek	Not applicable	82%	82%
2266	Hopkins Creek	Not applicable	67%	67%
2381	Cormorant Branch	Not applicable	73%	73%
2282	Wills Branch	Not applicable	80%	80%
2227	Sherman Creek	Not applicable	71%	71%
2240	Greenfield Creek	Not applicable	70%	70%
2265B	Pottsburg Creek	Not applicable	50%	50%
2203	Trout River	Not applicable	66%	66%
2203A	Trout River	Not applicable	60%	60%

1.3 RESPONSIBLE PARTIES AND KEY STAKEHOLDERS

Sources of anthropogenic fecal coliform loading in the 15 tributaries include wastewater and septic tanks. In addition, stormwater runoff conveys bacteria from pet and livestock waste and, in some areas, homeless person encampments. The entities responsible for addressing these sources in the BMAP tributaries include the city of Atlantic Beach, city of Jacksonville (COJ), city of Jacksonville Beach, city of Neptune Beach, Florida Department of Health (FDOH) in Duval County, Florida Department of Transportation (FDOT), JEA, and Naval Station (NS) Mayport. In addition to these entities, the department is also essential to the implementation of BMAP activities.

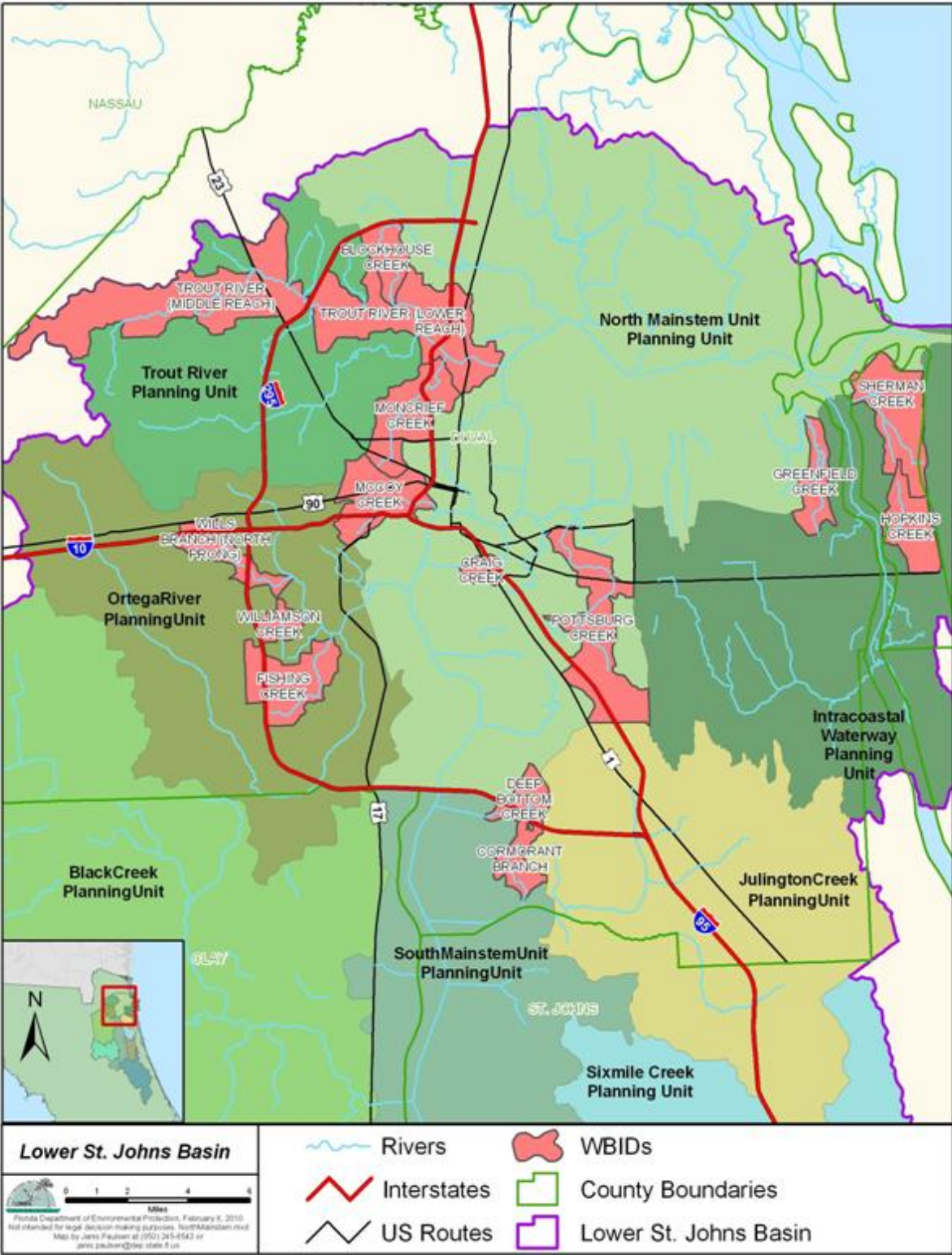


FIGURE 1: LSJR BASIN TRIBUTARIES INCLUDED IN BMAP II

1.4 SUFFICIENCY OF EFFORT APPROACH

Fecal coliforms can be highly variable and easily transported, making it difficult, in many cases, to identify the source of the bacteria. For this reason, detailed allocations were not made to each of the BMAP stakeholders. Instead, based on the potential sources in each WBID, the stakeholders were asked to identify their activities to reduce or remove bacteria sources that have been implemented since 1996 (the start of the TMDL verified period) and additional efforts that were under way or planned in five years from BMAP adoption.

The stakeholders submitted projects and programs for the prevention, reduction, and source removal activities they conduct in each of the 15 WBIDs or on a countywide basis. The department then used a “sufficiency of effort” approach to conduct a WBID-specific assessment of the potential sources. The potential sources were then compared with the cumulative efforts among all the entities, including the projects and activities that address or eliminate fecal coliform loading from various sources. This sufficiency-of-effort evaluation was not an assessment of each agency’s individual activities; instead, it focused on whether the activities submitted by all the entities corresponded to the potential sources identified in the watershed, and whether the total of the efforts was adequate to eliminate known sources, assess unknown sources, and prevent the development of new sources.

During the sufficiency-of-effort evaluation, the department reviewed the information available on each WBID, including the documentation of the most likely sources, a Geographic Information System (GIS) database to determine the spatial and temporal distribution of the sources, permit and water quality information, relevant field information, and the completed corrective actions. For each waterbody evaluation, the department used the source summary for each tributary and compared it with the restoration activities to ensure that appropriate activities were being implemented for the most likely sources to either decrease or eliminate the known sources, or to further assess fecal coliform loadings. If any of the likely sources was not sufficiently addressed, the department identified the need for additional actions, and the appropriate stakeholder was required to implement these actions as part of the BMAP.

SECTION 2: COUNTYWIDE PROGRAMS IN THE LSJR BASIN

There are several programs and projects that the entities conduct on a countywide level. These activities are summarized below, and waterbody-specific efforts associated with these programs are described in the individual WBID chapters.

2.1 JEA PROGRAMS

JEA continues to implement the following countywide specific improvement programs to address the sanitary sewer system as a source of fecal coliform contamination: (1) Fats, Oil, and Grease (FOG) Reduction Program; (2) Sanitary Sewer Overflow (SSO) Root Cause Program; (3) Pop-Top Program; (4) Non-Destructive Testing and Air Release Valve (ARV) Programs; (5) Supervisory Control and Data Acquisition (SCADA); (6) Third Party Education and Enforcement Program; (7) Manhole Monitoring; (8) Force Main Discharge Manholes; and (9) Capacity, Management, Operations, and Maintenance (CMOM) Program.

2.2 FDOH IN DUVAL COUNTY PROGRAMS

In the LSJR Tributaries BMAP II, discrete portions of the Fishing Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Wills Branch, Greenfield Creek, and Lower Trout River watersheds were identified as having a higher probability of onsite sewage treatment and disposal system (OSTDS)–related problems. This determination was made based on the number of repair permit applications and the year they were issued, water quality information, and the site conditions of these areas. FDOH in Duval County was required to inspect these areas during the five-year BMAP period. In the last year, FDOH performed the inspections in Craig Creek, McCoy Creek, Sherman Creek, and Greenfield Creek. The purpose of these investigations was to inspect existing septic systems with the potential for direct or indirect pollution, evaluate the condition of each septic system, facilitate repairs as necessary, and track the inspections and results.

In addition, FDOH implements a variety of countywide specific improvement programs and restoration activities to address OSTDS as sources of fecal coliform contamination. These include the OSTDS Program, training programs for OSTDS contractors, and the designation of septic tank failure and nuisance areas for transfer to central sewer.

2.3 COJ PROGRAMS

COJ has established a monitoring plan to evaluate the effectiveness of its Stormwater Management Program and the associated pollutant reduction from municipal separate storm sewer systems (MS4s) to waters of the state. The monitoring plan is a requirement of Part V.B. of the COJ/FDOT NPDES MS4 permit and supported by Title 40 of the Code of Federal Regulations (C.F.R.), Part 122.26(d)(2)(iii). In addition to routine monitoring, the COJ Environmental Quality Division (EQD) is part of the TAT and conducts sampling to help identify potential sources of fecal coliform contamination.

COJ Public Works Department's Streets and Drainage Division is responsible for maintaining its stormwater conveyance systems in Jacksonville. In addition to routine maintenance activities, work orders for maintenance are generated from the Citizen Action Response Effort (CARE) database. COJ also implements the Potential Illicit Connection (PIC) Program. COJ EQD keeps a record of reported PICs in a database, and a determination is made to identify where site visits are necessary. COJ inspectors conduct the site visits and talk to both the people who live on the site, as well as their neighbors, to verify the nature of the issue. If there is a known discharge, the inspector investigates in order to direct the resolution of the discharge to the appropriate entity (COJ, FDOH, or the department). If necessary, a sample is collected to determine the nature of the discharge. COJ may assist the individual in remedying the situation and return to ensure that the connection has been removed.

Educational outreach is a vital part of the PIC Program. COJ EQD primarily provides this outreach by distributing materials to the public such as educational pamphlets and informational door hangers, and through a storm drain-stenciling program. COJ also has several continuing public service announcements to address pet waste management and septic tank maintenance.

2.4 FDOT PROGRAMS

Under Subsection 334.044(15), Florida Statutes (F.S.), and Chapter 14-86, F.A.C., FDOT implements a Drainage Connection Program (DCP). The program does not issue water quality permits but requires the entity connecting to an FDOT conveyance to certify that the non-FDOT discharge is of acceptable water quality. Connecting entities are required to maintain the discharge of acceptable water quality for the duration of the FDOT DCP permit. In the event that a discharge is identified as causing or contributing to a violation of water quality standards, the permittee will be reported to the department,

the St. Johns River Water Management District (SJRWMD), and, if applicable, to the local municipality; these entities regulate stormwater quality through state rules, ordinances, and codes.

FDOT also works with COJ on several efforts related to MS4 permits. FDOT participates in the PIC Program in conjunction with COJ. FDOT has instructed staff to be alert for illicit connections during routine maintenance activities, and investigates observances found in the rights-of-way. Those located outside the rights-of-way are reported to the applicable municipality for further investigation and enforcement action. In June 2014, FDOT started the statewide implementation of mandatory IDDE training for staff and contractors working in its rights-of-way. FDOT maintains a toll-free number to be used for reporting illicit connections.

SECTION 3: CRAIG CREEK (WBID 2297)

3.1 JEA ACTIVITIES IN THE CRAIG CREEK WATERSHED

During the last year, JEA relined one manhole, inspected 0.35% of the pipes with closed-circuit television, and cleaned 5.21% of the lines. JEA also inspected 96 manholes as part of the Pop-Top Program. JEA's activities in the Craig Creek watershed are shown in **Table 2**.

TABLE 2: JEA ACTIVITIES IN THE CRAIG CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-1	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-2	Cured In Place Pipe (CIPP)–Install New Inner Lining	Rehabilitate failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-198	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-3	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	1 manhole relined in 2014	Not applicable	JEA	Ongoing
JEA-214	ARV Inspection and Rehab	ARV inspection and rehab	No effort in 2014	Not applicable	JEA	Ongoing
JEA-4	Pump Station SCADA Upgrades	Retrofit completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-5	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehab as necessary	Not applicable	Unknown	JEA	Completed
JEA-6	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	No effort in 2014	Not applicable	JEA	Ongoing
JEA-7	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	1 station (S5 Gen on Basil Road)	Unknown	JEA	Completed – All in WBID
JEA-8	Pipe television (TV) Inspection	Inspect existing infrastructure through use of closed-circuit television (CCTV) system	1,161 feet in 2014	\$23,140	JEA	Ongoing
JEA-9	Pipe Cleaning– JEA	Clean existing pipes to avoid blockages	9,663 feet high density polyethylene (HDPE) and 7,390 feet non-HDPE	\$100,240	JEA	Ongoing
JEA-10	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-11	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-12	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-13	Pop-Top Program	Pop-Top Program	96 manholes inspected in 201	Not applicable	JEA	Ongoing
JEA-14	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-15	Walk the WBID–Chronic Exceedances and Human Markers near CC2, TCC2, and TCC2A	Dye testing found no leaks, and additional inspections found no sewer problems	Not applicable	Unknown	JEA	Completed
JEA-16	Walk the WBID–Elevated Levels at TCC1	Investigated and found no sanitary sewer in area	Not applicable	Unknown	JEA	Completed
JEA-17	Walk the WBID–SSO at 2750 Hendricks Avenue Manhole	No problems during inspection but will regularly check manhole to determine cause of SSOs	Not applicable	Not applicable	JEA	Completed

3.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE CRAIG CREEK WATERSHED

In 2014, FDOH issued three repair, one abandonment, and one annual operating permit. It also conducted four plan reviews and site evaluations and performed one complaint investigation. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities that FDOH conducts in the Craig Creek watershed are shown in **Table 3**.

TABLE 3: FDOH IN DUVAL COUNTY ACTIVITIES IN THE CRAIG CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-1	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 3 repair and 1 abandonment permits issued	\$2,000	FDOH	Ongoing
FDOH-2	Annual Operating Permits	Issue annual operating permits for performance-based treatment and disposal system (PBTS), systems located in industrial/manufacturing zones (IMZs), and commercial systems	1 annual operating permit issued for IMZ property	\$350	FDOH	Ongoing
FDOH-3	Surface Water Improvement and Management (SWIM) Project	Implement broad-ranging septic tank ordinance	Approximately 9.4% of Emerson failure area and 19.6% of Freeman/Inwood failure area located in this WBID	Not applicable	FDOH	Ongoing
FDOH-4	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-5	Application/ Plan Review/ Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 4 plan reviews and site evaluations performed	\$800	FDOH	Ongoing
FDOH-6	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-7	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	1 complaint investigation performed in WBID	\$150	FDOH	Ongoing
FDOH-107	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	3 reinspections performed in WBID	\$300	FDOH/ Department/ United States Environmental Protection Agency (EPA) Section 319 Nonpoint Source Management Program Implementation Grant	Completed

3.3 COJ ACTIVITIES IN THE CRAIG CREEK WATERSHED

During 2014, COJ had 13 work orders for ditch and creek regrading and ten for structures. These inspections are initiated through information from the CARE database. COJ also proactively maintained 2,156 feet of outfall ditches, managed vegetation and removed litter from 490 feet of outfall ditches, and inspected one private lift station. In addition, COJ collected three routine water quality samples. COJ's efforts in the Craig Creek watershed are shown in **Table 4**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 4: COJ ACTIVITIES IN THE CRAIG CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-1	St Augustine Road. (Emerson to U.S. Highway 1) (Main Stem COJ-7)	Construct regional pond	167 acres	Unknown	COJ	Completed
COJ-2	Vale Orchard Lane Street Improvements	Address area where previous street repair has settled and damaged side curbing	Unknown	Unknown	COJ	Completed
COJ-308	Harbor Cove/Inwood Terrace	Drainage improvements	Unknown	\$1,342	COJ	Completed
COJ-309	Kingswood/Berwick Road	Road drainage design	Unknown	\$1,102	COJ	Completed
COJ-310	Kingswood/Berwick Road	Road drainage construction	Unknown	\$23,060	COJ	Completed
COJ-311	Berwick Road	Drainage improvements	Unknown	\$25,149	COJ	Completed
COJ-312	Phillips Highway Pond	Wet detention pond	Unknown	\$1,100,000	COJ	Planned
COJ-313	Pine Forest	Wet detention pond	Unknown	\$5,882,478	COJ	Construction
COJ-314	Inwood Terrace	Drainage improvements	Unknown	\$650,000	COJ	Completed
COJ-346	1633 Berwick	Road drainage design	Unknown	\$48,222	COJ	Completed
COJ-374	1025 Oriental Gardens	Construction	Unknown	\$11,457	COJ	Construction
COJ-3	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	13	\$3,450	COJ	Ongoing
COJ-347	Ditch Hazardous Contaminated	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-4	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-5	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	10	\$1,537	COJ	Ongoing
COJ-405	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	2,156 feet	\$4,635	COJ	Ongoing
COJ-406	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal	490 feet	\$215	COJ	Ongoing
COJ-6	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-7	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-8	Sewer Drains into Yard/Ditch	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-9	Sewer Overflow	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-10	Private Lift Station Inspection	4 private lift stations in WBID	1	\$379	COJ	Ongoing
COJ-11	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-12	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through cty staff and reported to CARE call center	0	\$0	COJ	Ongoing
COJ-13	Follow Up on Outstanding PICs	Follow up on 2 open PICs in watershed; not found to be illicit	2	\$800	COJ	Completed
COJ-14	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling at 1 station	3	\$544	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-15	TAT Sampling	Conducted by EQD to assess bacteria levels in creek and help identify potential fecal bacteria sources; ended in 2009	19 (for 2008–09)	Unknown	COJ	Completed
COJ-315	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted, to attempt to identify sources.	0	\$0	COJ	Ongoing
COJ-16	Freeman Road/Inwood Failure Area– Septic Tank Phase-Out	Phase out septic tanks in failure areas	3 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-17	Emerson Failure Area– Septic Tank Phase-Out	Phase out septic tanks in failure areas	87 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-18	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	3 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-19	Septic Tank Maintenance Public Education	Develop public service announcements (PSAs)	Ongoing	Unknown	COJ	Ongoing
COJ-20	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

3.4 FDOT ACTIVITIES IN THE CRAIG CREEK WATERSHED

During 2014, FDOT collected 1,906 pounds of debris through street sweeping 12 miles of roadways. FDOT helps to fund one monitoring station in the Craig Creek watershed that is sampled quarterly as part of the MS4 routine monitoring program. **Table 5** lists FDOT's activities in the Craig Creek watershed.

TABLE 5: FDOT ACTIVITIES IN THE CRAIG CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-1	PIC Program	Search for illicit connections	Effort is continuous in this WBID	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-2	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connections/discharge found this reporting period	Included in FDOT-1	FDOT/COJ	Ongoing
FDOT-3	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	3 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-4	TAT Sampling	Conducted by COJ EQD to further assess bacteria levels in stream and to help identify potential fecal bacteria sources	19 (for 2008–09)	Countywide - \$22,546	FDOT/COJ	Completed
FDOT-5	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-6	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 6 miles of roadways and associated stormwater conveyance systems currently maintained in this WBID; approximately 12 miles of roadways swept with 1,906 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-105	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0 re-samplings were performed	Included in FDOT-3	FDOT/COJ	Ongoing

SECTION 4: MCCOY CREEK (WBID 2257)

4.1 JEA ACTIVITIES IN THE MCCOY CREEK WATERSHED

During the last year, JEA replaced sewer collection pipes through the process called “pipe bursting,” replacing 0.04% of the lines, installed new linings on 0.03% of the pipes through CIPP, relined six manholes, inspected 13 ARVs, repaired two lift stations, inspected 0.30% of the pipes with closed-circuit television, and cleaned 3.40% of the lines. In addition, JEA inspected 147 manholes as part of the Pop-Top Program. JEA’s activities in the McCoy Creek watershed are shown in **Table 6**.

TABLE 6: JEA ACTIVITIES IN THE MCCOY CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-18	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	800 feet	Not applicable	JEA	Ongoing
JEA-19	CIPP–Install New Inner Lining	Rehabilitate failing/leaking infrastructure	476 feet	Not applicable	JEA	Ongoing
JEA-20	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-21	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	6 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-22	ARV Inspection and Rehabilitation	ARV inspection and rehabilitation	13 inspected, 1 installation in 2014	Not applicable	JEA	Ongoing
JEA-23	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-24	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-25	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	2 projects in 2014	\$169,353	JEA	Ongoing
JEA-26	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-27	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-28	Pipe TV Inspection	Inspect existing infrastructure using CCTV system	5,421 feet inspected in 2014	Not applicable	JEA	Ongoing
JEA-29	HDPE Pipe Cleaning–Contractor	Clean existing HDPE pipes to avoid blockages	20,344 feet of HDPE pipe cleaned in 2014	Not applicable	JEA	Ongoing
JEA-30	Pipe Cleaning	Clean existing pipes to avoid blockages	41,997 feet of non-HDPE pipe cleaned in 2014	Not applicable	JEA	Ongoing
JEA-31	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-32	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-33	Pop-Top Program	Pop-Top Program	147 manholes inspected in 2014	Not applicable	JEA	Ongoing
JEA-34	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing
JEA-35	Walk the WBID– Inspect Drop Inlet at Nelson and Plum	Inspections showed no problems with manholes	Not applicable	Not applicable	JEA	Completed
JEA-36	Walk the WBID– SSO at Manhole at Cherokee Street and Edison Avenue	Repair manhole	Not applicable	Not applicable	JEA	Completed

4.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE MCCOY CREEK WATERSHED

In 2014, FDOH issued one new construction, one repair, and 10 annual operating permits. It also conducted two plan reviews and site evaluations and four complaint investigations. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities that FDOH conducts in the McCoy Creek watershed are shown in **Table 7**.

TABLE 7: FDOH IN DUVAL COUNTY ACTIVITIES IN THE MCCOY CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-8	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 1 new construction and 1 repair permits issued	\$1,000	FDOH	Ongoing
FDOH-9	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	10 annual operating permits issued for IMZ and commercial properties	\$3,500	FDOH	Ongoing
FDOH-10	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-11	Application/ Plan Review/ Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	2 plan reviews and site evaluations performed	\$400	FDOH	Ongoing
FDOH-12	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-13	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	4 complaint investigations performed in WBID	\$600	FDOH	Ongoing
FDOH-108	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	No inspections have been performed in this WBID	Not applicable	FDOH/ Department/ EPA Section 319 Nonpoint Source Management Program Implementation Grant	Completed

4.3 COJ ACTIVITIES IN THE MCCOY CREEK WATERSHED

4.3.1 COMPLETED COJ PROJECTS

COJ completed the storm sewer projects on Stockton Street near the intersection at Edison Avenue, Baldwin Street, McCoy Creek at Stockton Street, and Edison Avenue near the intersection at Lime Avenue. These projects should help to reduce fecal coliform loading to McCoy Creek from these areas.

4.3.2 ONGOING COJ PROGRAMS AND ACTIVITIES

In the McCoy Creek watershed during the reporting period, COJ had two work orders for illicit water discharges, one for a sewer that drains to a yard or ditch, and five for sewer overflows. These inspections are initiated through information from the CARE database. In addition, COJ proactively inspected 18,001 feet of outfall ditches, managed vegetation and removed litter from 6,650 feet of outfall ditches, and collected eight routine water quality samples. COJ also connected three septic tanks to the sewer system in the watershed but outside a failure area. COJ's efforts in the McCoy Creek watershed are shown in **Table 8**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 8: COJ ACTIVITIES IN THE MCCOY CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-21	Lenox Avenue (Highway to McDuff) (Main Stem COJ-32)	Construct wet detention pond	108 acres	Unknown	COJ	Completed
COJ-22	McCoy Creek (Main Stem COJ-3)	Construct Ponds A and B	680 acres	Unknown	COJ	Completed
COJ-23	McCoy Creek (Main Stem COJ-4)	Construct Pond F	11 acres	Unknown	COJ	Completed
COJ-24	McCoy Creek (Main Stem COJ-22)	Construct Pond D	27 acres	Unknown	COJ	Completed
COJ-25	McCoy Creek–Air Liquid Site	Retrofit pond and drainage	8 acres	\$1,000,000	COJ	Construction
COJ-26	McCoy Creek Pond C	Construct pond, Hollybrook Park	Unknown	\$3,955,522	COJ	Completed
COJ-27	Melba Street and Green Street	Construct wet detention pond	278 acres	\$2,701,500	COJ	Completed
COJ-28	McCoy Creek	Construct Broward/Smith Pond	14 acres	\$97,000	COJ	Completed
COJ-316	McCoy Creek Blvd	Channel Improvements	Unknown	\$2,800,000	COJ	Planned
COJ-317	Newtown Drainage Improvements	Wet detention pond	Unknown	\$5,791,000	COJ	Planned
COJ-318	Superior and Carter	Drainage Improvements	Unknown	\$40,583	COJ	Completed
COJ-29	Ontario Street Drainage Improvements	Implement drainage improvements to address flooding at 795 Ontario	Unknown	Unknown	COJ	Completed
COJ-30	Spruce/Price Drainage Improvements	Implement drainage improvements to address flooding at intersection during heavy rains	Unknown	Unknown	COJ	Completed
COJ-31	Correct Drainage at Westbrook Circle West	Implement drainage improvements to address flooding at 1025 Westbrook	Unknown	Unknown	COJ	Completed
COJ-32	Correct Road Flooding at Labelle Street	Implement drainage improvements to address inadequate underdrain system that allows flooding	Unknown	Unknown	COJ	Completed
COJ-33	Winter Street	Implement drainage improvements to address ponding water	Unknown	Unknown	COJ	Completed
COJ-34	Barber Street and Broadway Avenue	Implement drainage improvements to address flooding at intersection	Unknown	Unknown	COJ	Completed
COJ-35	Dignan Street/Day Avenue	Reconstruct ditches and culverts to provide positive drainage	Unknown	\$63,408	COJ	Completed
COJ-36	Acorn Street S/W and Drainage	Replace sidewalks, install new curbing, and construct new drainage infrastructure on Acorn between McQuade Street and Windle Street	Unknown	\$100,507	COJ	Completed
COJ-348	Orchard Street	Outfall improvement	Unknown	\$9,436	COJ	Completed
COJ-349	2980 Ernest Street	Drainage improvements	Unknown	\$20,662	COJ	Completed
COJ-375	Cecelia St	Design	Unknown	\$31,209	COJ	Design
COJ-376	Nolan St @ Shearer Av	Design	Unknown	\$29,622	COJ	Design

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-377	Stockton St @ Edison Av	Storm sewer	Storm sewer	\$13,713	COJ	Completed
COJ-378	Baldwin St	Storm sewer	Storm sewer	\$7,055	COJ	Completed
COJ-379	McCoys Creek @ Stockton St	Storm sewer	Storm sewer	\$7,123	COJ	Completed
COJ-380	Edison Av @ Lime Av	Storm sewer	Storm sewer	\$27,772	COJ	Completed
COJ-37	Ditch/Creek Regrade/Erosion/ Clean	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-38	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-39	Structure Blocked/Repair/ General Flooding	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-407	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	18,001 feet	\$38,702	COJ	Ongoing
COJ-408	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal	6,650 feet	\$1,665	COJ	Ongoing
COJ-40	Illicit Water Discharge	CARE initiated inspection	2	\$758	COJ	Ongoing
COJ-41	Pollution–Water– Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-42	Sewer Drains into Yard/Ditch	CARE initiated inspection	1	\$379	COJ	Ongoing
COJ-43	Sewer Overflow	CARE initiated inspection	5	\$1,895	COJ	Ongoing
COJ-44	Private Lift Station Inspection	8 private lift stations in WBID	0	\$0	COJ	Ongoing
COJ-45	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-46	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report - 20016 Druid /4121 Dylan Street	1 station	Unknown	COJ	Completed – Not in WBID
COJ-47	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report - CSX Warehouse 334, 1315 Canal Street	2 stations	Unknown	COJ	Completed
COJ-48	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center: 1 open, 1 closed	0	\$0	COJ	Ongoing
COJ-49	Follow Up on Outstanding PICs	Follow up on 2 remaining open PICs in watershed	2	\$758	COJ	Completed
COJ-50	Routine Surface Water Sampling	NPDES permit-related quarterly water quality sampling, 2 stations in WBID	8	\$1,088	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-51	TAT Sampling	Conducted by EQD to assess bacteria levels in creek and help identify potential fecal bacteria sources	13 (for 2009)	Unknown	COJ	Completed
COJ-52	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted	0	\$0	COJ	Ongoing
COJ-53	Follow Up on Thermal Anomalies	Using thermal imagery, followed up on anomalies in WBID; none were fecal coliform source	2009	Unknown	COJ	Completed
COJ-54	Murray Hill A Failure Area– Septic Tank Phase-Out	Phase out septic tanks in failure areas	58 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-55	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	281 tanks, 3 connected	Unknown	COJ	Ongoing
COJ-56	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-57	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

4.4 FDOT ACTIVITIES IN THE MCCOY CREEK WATERSHED

FDOT investigated two PICs and found that one was illicit and the other was not. It also collected 997 pounds of debris through street sweeping on eight miles of roadways. In addition, FDOT helps to fund two monitoring stations in the McCoy Creek watershed that are sampled quarterly as part of the MS4 monitoring program. **Table 9** lists FDOT's activities in the McCoy Creek watershed.

TABLE 9: FDOT ACTIVITIES IN THE MCCOY CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-7	PIC Program	Search for illicit connections	Effort is continuous in this WBID	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-8	PIC Program	Identify and remove illicit connections if found to be truly illicit	2 PICs found and upon investigation, determined 1 not to be illicit	Included in FDOT-7	FDOT/COJ	Ongoing
FDOT-9	Follow Up on Outstanding PICs	Follow up on 2 open PICs in watershed	2 PICs found not to be illicit	Countywide - \$37,605	FDOT/COJ	Completed
FDOT-10	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	8 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-11	TAT Sampling	Conducted by EQD to assess bacteria levels in creek and help identify potential fecal bacteria sources	13 (for 2009)	Countywide - \$22,546	FDOT/COJ	Completed
FDOT-12	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	Included in FDOT-10	FDOT/COJ	Ongoing
FDOT-13	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-14	Stormwater Management Systems	Construct wet detention pond at intersection of Interstates 10 and 95	119 acres, wet pond	Unknown	FDOT	Completed
FDOT-15	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 4 miles of roadways and associated stormwater conveyance systems currently being maintained in this WBID; approximately 8 miles of roadways swept with 997 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing

SECTION 5: WILLIAMSON CREEK (WBID 2316)

5.1 JEA ACTIVITIES IN THE WILLIAMSON CREEK WATERSHED

During the last year, JEA inspected four ARVs, inspected 0.14% of the sanitary sewer pipes with closed-circuit television, cleaned 4.40% of the lines, and cleaned 2.66% of the HDPE pipe. It also inspected 11 manholes as part of the Pop-Top Program. JEA's activities in the Williamson Creek watershed are shown in **Table 10**.

TABLE 10: JEA ACTIVITIES IN THE WILLIAMSON CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-37	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-38	CIPP–Install New Inner Lining	Rehabilitate failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-39	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	0 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-40	ARV Inspection and Rehabilitation	ARV inspection and rehabilitation	4 ARVs inspected in 2014	Not applicable	JEA	Ongoing
JEA-215	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-41	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-42	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/ rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-43	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-44	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	575 feet of pipe inspected in 2014	Not applicable	JEA	Ongoing
JEA-45	HDPE Pipe Cleaning–Contractor	Clean existing HDPE pipes to avoid blockages	4,797 feet of HDPE cleaned in 2014	Not applicable	JEA	Ongoing
JEA-46	Pipe Cleaning	Clean existing pipes to avoid blockages	17,649 feet of non-HPDE pipe cleaned in 2014	Not applicable	JEA	Ongoing
JEA-47	Implement CMOM Program	CMOM Program	Ongoing	Unknown	JEA	Ongoing
JEA-48	Manhole Monitoring	Manhole Monitoring	2 monitors in watershed	Not applicable	JEA	Ongoing
JEA-49	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-50	Pop-Top Program	Pop-Top Program	11 manholes inspected in 2014	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-51	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing
JEA-52	Walk the WBID–Manhole SSO at Wilson Boulevard	Repaired manhole riser section; CIPP along Wilson Boulevard.; dye testing showed no problems	Not applicable	Unknown	JEA	Completed
JEA-53	Walk the WBID–Inspections at Aldington Road	Inspection showed no problems; past SSOs in areas that had been addressed	Not applicable	Unknown	JEA	Completed
JEA-54	Walk the WBID–Investigations on Blanco Court	Investigate residential area on Blanco Court that has shallow lines and manhole problems	Complete inspection and report in first annual BMAP report	Not applicable	JEA	Completed

5.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE WILLIAMSON CREEK WATERSHED

In 2014, FDOH issued three repair and three annual operating permits. It also conducted three plans reviews and site evaluations. The programs and activities FDOH conducts in the Williamson Creek watershed are shown in **Table 11**.

TABLE 11: FDOH IN DUVAL COUNTY ACTIVITIES IN THE WILLIAMSON CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-14	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 3 repair permits issued	\$1,500	FDOH	Ongoing
FDOH-15	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	3 annual operating permits issued for IMZ and commercial properties	\$1,050	FDOH	Ongoing
FDOH-16	SWIM Project	Implement broad-ranging septic tank ordinance	Approximately 25.6% of Cedar Creek failure area is located in WBID	Not applicable	FDOH	Ongoing
FDOH-17	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-18	Application/Plan Review/Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 3 plan reviews and site evaluations performed	\$600	FDOH	Ongoing
FDOH-19	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-20	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	No complaint investigations performed	Not applicable	FDOH	Ongoing
FDOH-106	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	Approximately 113 inspections performed in WBID	\$10,700	FDOH/ department/ EPA Section 319 Nonpoint Source Management Program Implementation grant	Completed

5.3 COJ ACTIVITIES IN THE WILLIAMSON CREEK WATERSHED

5.3.1 COMPLETED COJ PROJECTS

COJ completed a storm sewer project on Ledbury Drive South near the intersection at Anvers Boulevard, which should help to reduce fecal coliform loading to Williamson Creek from this area.

5.3.2 ONGOING COJ PROGRAMS AND ACTIVITIES

Over the reporting period, COJ had one work order for a sewer that drains to a yard or ditch, and this inspection was initiated through information from the CARE database. In addition, it proactively maintained 12,970 feet of outfall ditch, managed vegetation and removed litter from 4,960 feet of outfall ditches, and collected four routine water quality samples. COJ's efforts in the Williamson Creek watershed are shown in **Table 12**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 12: COJ ACTIVITIES IN THE WILLIAMSON CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-319	Regional Stormwater Facility w/MAPs	Regional Stormwater Facility w/MAPs	Unknown	\$366,429	COJ	Planned
COJ-320	Hugh Edwards Drainage	Wet Detention pond	Unknown	Unknown	COJ	Completed
COJ-321	6700 Jack Horner Lane	Drainage improvement	Unknown	\$48,853	COJ	Completed
COJ-350	Wilson Boulevard	Culvert replacement	Unknown	\$5,521	COJ	Completed
COJ-351	6700 Jack Horner Lane	Drainage improvement	Unknown	\$48,853	COJ	Completed
COJ-381	Ledbury Drive South at Anvers Boulevard	Storm sewer	Storm sewer	\$4,328	COJ	Completed
COJ-58	Ditch/Creek Regrade/Erosion/ Clean	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-59	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-60	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-409	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	12,970 feet	\$27,886	COJ	Ongoing
COJ-410	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal	4,960 feet	\$2,936	COJ	Ongoing
COJ-61	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-62	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-63	Sewer Drains into Yard/Ditch	CARE initiated inspection	1	\$379	COJ	Ongoing
COJ-64	Sewer Overflow	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-65	Private Lift Station Inspection	6 private lift stations in WBID	0	\$0	COJ	Ongoing
COJ-66	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-67	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	1 station (6561 San Juan Avenue)	Unknown	COJ	Completed – Not in WBID
COJ-68	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	0	\$0	COJ	Ongoing
COJ-69	Follow Up on Outstanding PICs	Follow up on 5 open PICs in watershed; all closed, none illicit	5	\$2,500	COJ	Completed
COJ-70	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling, 1 station in WBID	4	\$544	COJ	Ongoing
COJ-71	TAT Sampling	Conducted by EQD to assess bacteria levels in creek and help identify potential fecal bacteria sources	19 (for 2008–09)	Unknown	COJ	Completed
COJ-352	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted	0	\$0	COJ	Ongoing
COJ-72	Walk the WBID	Participated in Walk the WBID reconnaissance efforts and TAT sampling	2008–09	Unknown	COJ	Completed
COJ-73	Cedar Creek Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	128 tanks, 0 connected	Unknown	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-74	Septic Tanks Outside Failure Area–Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	134 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-75	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-76	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

5.4 FDOT ACTIVITIES IN THE WILLIAMSON CREEK WATERSHED

FDOT collected 294 pounds of debris through street sweeping on four miles of roadways. The Adopt-A-Highway Program collected 29 pounds of trash along two miles of roadways. FDOT helps to fund one monitoring station in the Williamson Creek watershed that is sampled quarterly as part of the MS4 routine monitoring program. **Table 13** lists FDOT’s activities in the Williamson Creek watershed.

TABLE 13: FDOT ACTIVITIES IN THE WILLIAMSON CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-16	PIC Program	Search for illicit connections	Effort is continuous; none identified	Countywide - \$45,394	FDOT/ COJ	Ongoing
FDOT-121	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connections/ discharge found this reporting period	Included in FDOT-16	FDOT/ COJ	Ongoing
FDOT-17	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-18	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	4 routine water quality samplings performed	Countywide - \$197,794	FDOT/ COJ	Ongoing
FDOT-19	TAT Sampling	Conducted by EQD to assess bacteria levels in the creek and help identify potential fecal bacteria sources	19 (for 2008–09)	Countywide - \$22,546	FDOT/ COJ	Completed
FDOT-20	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	29 pounds of trash collected, trash collection area is 2 miles	Unavailable	Not applicable	Ongoing
FDOT-21	Stormwater Management Systems	Lane Avenue	7 acres, wet ponds	Unknown	FDOT	Completed
FDOT-22	Stormwater Management Systems	Wilson Avenue	72 acres, wet ponds	Unknown	FDOT	Completed
FDOT-23	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 2 miles of roadways and associated stormwater conveyance systems currently maintained in this WBID; approximately 4 miles of roadways swept with 294 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-24	Maintain Stormwater Systems	Maintain pond at 3613 Lane Avenue	Trash found in pond during Walk the WBID was removed	Countywide - \$2,750,735	FDOT	Completed
FDOT-106	Source Identification Sampling	Resampling conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	Included in FDOT-18	FDOT/ COJ	Ongoing
FDOT-107	Stormwater Management Systems	Construct wet detention pond at Lane Avenue and at Wilson Avenue	85 acres, wet pond	Unknown	FDOT	Completed

SECTION 6: FISHING CREEK (WBID 2324)

6.1 JEA ACTIVITIES IN THE FISHING CREEK WATERSHED

During the last year, JEA replaces sewer collection pipes through the process called “pipe bursting,” replacing 0.01% of the lines, inspected 31 ARVs, inspected 0.14% of the pipes with closed-circuit television, cleaned 2.14% of the HDPE pipes, and cleaned 1.32% of the lines. It also inspected 33 manholes as part of the Pop-Top Program. JEA’s activities in the Fishing Creek watershed are listed in **Table 14**.

TABLE 14: JEA ACTIVITIES IN THE FISHING CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-55	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	51 feet	Not applicable	JEA	Ongoing
JEA-56	CIPP–Install an New Inner Lining	Rehabilitate failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-57	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-58	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	0 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-59	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	31 ARVs inspected, 1 installed in 2014	Not applicable	JEA	Ongoing
JEA-60	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-61	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-62	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	No effort in 2014	Not applicable	JEA	Ongoing
JEA-63	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	3 stations (Somerton Court, Bricker Road, Sharbeth Road)	Unknown	JEA	Completed – all in WBID
JEA-64	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-65	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-66	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	1,672 feet of pipe in 2014	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-209	HDPE Pipe Cleaning– Contractor	Clean existing HDPE pipes to avoid blockages	639 feet of HDPE cleaned in 2014	Not applicable	JEA	Ongoing
JEA-67	Pipe Cleaning	Clean existing pipes to avoid blockages	15,365 feet of non-HDPE pipe cleaned in 2014	Not applicable	JEA	Ongoing
JEA-68	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-69	Manhole Monitoring	Manhole Monitoring	2 monitors in watershed	Not applicable	JEA	Ongoing
JEA-70	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-71	Pop-Top Program	Pop-Top Program	33 manholes inspected in 2014	Not applicable	JEA	Ongoing
JEA-72	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

6.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE FISHING CREEK WATERSHED

In 2014, FDOH issued one new construction, nine repair, two existing system, and 24 annual operating permits. FDOH also conducted 14 plan reviews and site evaluations and completed four complaint investigations. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities FDOH conducts in the Fishing Creek watershed are shown in **Table 15**.

TABLE 15: FDOH IN DUVAL COUNTY ACTIVITIES IN THE FISHING CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATE D COST	FUNDING SOURCE	PROJECT STATUS
FDOH-21	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 1 new construction, 9 repair, 2 abandonment, and 2 existing system permits issued	\$7,000	FDOH	Ongoing
FDOH-22	SWIM Project	Implement broad-ranging septic tank ordinance	100% of Pernecia failure area is located in this WBID	Not applicable	FDOH	Ongoing
FDOH-23	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	24 annual operating permits issued for IMZ/commercial properties; 1 PBTS monitored annually	\$9,450	FDOH	Ongoing
FDOH-24	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-25	Application/ Plan Review/ Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 14 plan reviews and site evaluations performed	\$2,800	FDOH	Ongoing
FDOH-26	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-27	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	4 complaint investigations performed	\$600	FDOH	Ongoing
FDOH-28	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	Approximately 1,073 inspections performed in WBID	\$40,000	FDOH/ department/ EPA Section 319 Nonpoint Source Management Program Implementation grant	Completed

6.3 COJ ACTIVITIES IN THE FISHING CREEK WATERSHED

6.3.1 COMPLETED COJ PROJECTS

In 2014, COJ completed storm sewer projects at 6562 Albicore Road and 5134 Ricker Road. These projects should help to reduce fecal coliform loading to the creek.

6.3.2 ONGOING COJ PROGRAMS AND ACTIVITIES

Over the last year, COJ had 81 work orders for ditch and creek regrading, 34 for repair/clearing of structures, three for a sewer that drain to a yard or ditch, and four for sewer overflows. These inspections are initiated through information from the CARE database. The city also proactively maintained 12,391 feet of outfall ditches, managed vegetation and removed litter from 34,665 feet of outfall ditches, and inspected six private lift stations in the WBID. In addition, COJ collected 15 routine samples, 12 samples to follow up on high counts, and 48 BMAP-related samples, as outlined by the BMAP monitoring plan and approved revisions. COJ also connected three septic tanks to the sewer system outside of a failure area. COJ's efforts in the Fishing Creek watershed are shown in **Table 16**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 16: COJ ACTIVITIES IN THE FISHING CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-77	La Moya Roadway Project (Main Stem COJ-42)	Construct wet detention pond	17 acres	Unknown	COJ	Completed
COJ-78	Wesconnett Blvd. (Blanding to Blanding) (Main Stem COJ-33)	Construct wet detention pond	396 acres	Unknown	COJ	Completed
COJ-79	Replace Cross Drain at Perrine Drive	Replace cross drain—too small to handle drainage area	Unknown	Unknown	COJ	Completed
COJ-80	Redstone Drive Drainage	Install cross drain and improve ditches	Unknown	\$150,000	COJ	Completed
COJ-323	Regional Stormwater Facility – Master Stormwater Management Plan (MSMP)	Regional stormwater facility w/ managed aquatic plant systems + channel lining	Unknown	\$1,812,527	COJ	Planned
COJ-324	4922 Ricker Road	Drainage improvement	Unknown	\$77,660	COJ	Completed
COJ-325	7560 Melvin Road	Drainage improvement	Unknown	\$51,991	COJ	Completed
COJ-326	Antoinette Lane	Outfall repair	Unknown	\$149,071	COJ	Completed
COJ-353	Timawatha Avenue	Drainage improvement	Unknown	\$27,837	COJ	Completed
COJ-354	Tampico Road	Drainage improvement	Unknown	\$25,662	COJ	Completed
COJ-382	6985 Wheat Road	Cave in	Cave in	\$5,306	COJ	Construction
COJ-383	6211 Firestone Road	Storm sewer	Storm sewer	\$42,318	COJ	Construction
COJ-384	4631 Benlocke Road	Storm sewer	Storm sewer	\$25,635	COJ	Construction
COJ-385	6562 Albicore Road	Storm sewer	Storm sewer	\$1,973	COJ	Completed
COJ-386	5134 Ricker	Storm sewer	Storm sewer	\$7,158	COJ	Completed
COJ-81	Ditch/Creek Regrade/Erosion/ Clean	All maintenance activities presented were completed in response to CARE requests.	81	\$85,073	COJ	Ongoing
COJ-82	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-83	Structure Blocked/Repair/ General Flooding	All maintenance activities presented were completed in response to CARE requests.	34	\$31,663	COJ	Ongoing
COJ-411	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	12,391 feet	\$26,641	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-412	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal	34,665 feet	\$22,583	COJ	Ongoing
COJ-84	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-85	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-86	Sewer Drains into Yard/Ditch	CARE initiated inspection	3	\$1,137	COJ	Ongoing
COJ-87	Sewer Overflow	CARE initiated	4	\$1,516	COJ	Ongoing
COJ-88	Septic Tank Inspection	CARE initiated	0	\$0	COJ	Ongoing
COJ-89	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	1 station (103 rd Street and Bricker Road)	\$500	COJ	Completed – In WBID
COJ-90	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	1 station (5951 Wilmar Road)	\$500	COJ	Completed
COJ-91	Private Lift Station Inspection	41 private lift stations in WBID; 3 identified and inspected in 2014	6	\$2,274	COJ	Ongoing
COJ-92	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-93	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	0	\$0	COJ	Ongoing
COJ-94	Follow Up on Outstanding PICs	All open PICs were closed, none were illicit	10	\$8,000	COJ	Completed
COJ-95	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling, 4 stations in WBID	15 (some included in COJ-327)	\$2,040	COJ	Ongoing
COJ-96	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted	12	\$2,124	COJ	Ongoing
COJ-327	BMAP Monitoring	COJ EQD is responsible for 4 sites (2 sampled monthly and 2 sampled quarterly), began 12/2010	48	\$8,496	COJ	Ongoing
COJ-97	Pernecia Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	186 tanks, 186 connected	Unknown	COJ	Completed
COJ-98	Septic Tanks Outside Failure Area–Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	921 tanks, 3 connected	Unknown	COJ	Ongoing
COJ-99	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-100	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

6.4 FDOT ACTIVITIES IN THE FISHING CREEK WATERSHED

FDOT collected 1,372 pounds of debris through street sweeping 14 miles of roadways. The Adopt-A-Highway Program collected 162 pounds of trash from six miles of roadways. It helps to fund four monitoring stations in the Fishing Creek watershed that are sampled quarterly as part of the MS4 routine monitoring program. FDOT also helps to fund sites in the BMAP monitoring plan. **Table 17** lists FDOT's activities in the Fishing Creek watershed.

TABLE 172: FDOT ACTIVITIES IN THE FISHING CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-25	PIC Program	Search for illicit connections	Effort is continuous in this WBID	Countywide - \$45,394	FDOT/ COJ	Ongoing
FDOT-26	PIC Program	Identify illicit connections and remove if found to be truly illicit	No illicit connection/ discharge found this reporting period	Included in FDOT-25	FDOT/ COJ	Ongoing
FDOT-27	PIC Program	Follow up on outstanding PICs	2 were resolved by connection to the sanitary sewer; 1 not illicit	Countywide - \$37,605	FDOT/ COJ	Completed
FDOT-28	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	12 routine water quality samplings performed	Countywide - \$197,794	FDOT/ COJ	Ongoing
FDOT-29	Source Identification Sampling	Re-sampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	Included-28	FDOT/ COJ	Ongoing
FDOT-30	Stormwater Management Systems	Construct Interstate 295 retention/detention systems	72 acres	Not applicable	FDOT	Completed
FDOT-31	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-32	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	162 pounds of trash collected, trash collection area is 6 miles	Unavailable	Not applicable	Ongoing
FDOT-33	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 7 miles of roadways and associated stormwater conveyance systems currently maintained; approximately 14 miles of roadways swept with 1,372 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-108	BMAP Sampling	Routine BMAP II monitoring began December 2010	47	FDOT-28	FDOT/ COJ	Ongoing

SECTION 7: DEEP BOTTOM CREEK (WBID 2361)

7.1 JEA ACTIVITIES IN THE DEEP BOTTOM CREEK WATERSHED

During the last year, JEA cleaned 3.37% of the lines and inspected 33 manholes through the Pop-Top Program. JEA's activities in the Deep Bottom Creek watershed are shown in **Table 18**.

TABLE 18: JEA ACTIVITIES IN THE DEEP BOTTOM CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-73	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-199	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-74	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	0 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-75	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	No effort in 2014	Not applicable	JEA	Ongoing
JEA-76	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections ongoing	Not applicable	JEA	Completed
JEA-77	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-78	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-200	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	No effort in 2014	Not applicable	JEA	Ongoing
JEA-79	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-80	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-81	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-82	Pop-Top Program	Pop-Top Program	33 manholes inspected in 2014	Not applicable	JEA	Ongoing
JEA-83	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing
JEA-201	Pipe Cleaning	Clean existing pipes to avoid blockages	6,643 feet cleaned in 2014	Not applicable	JEA	Ongoing
JEA-202	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	No effort in 2014	Not applicable	JEA	Ongoing

7.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE DEEP BOTTOM CREEK WATERSHED

In 2014, FDOH issued one repair and five abandonment permits. It also performed six plan reviews and site evaluations and one complaint investigation. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities FDOH conducts in the Deep Bottom Creek watershed are shown in **Table 19**.

TABLE 19: FDOH IN DUVAL COUNTY ACTIVITIES IN THE DEEP BOTTOM CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-29	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 1 repair and 5 abandonment permits issued	\$3,000	FDOH	Ongoing
FDOH-30	SWIM Project	Implement broad-ranging septic tank ordinance	Approximately 40% of Scott Mill Hill Septic Tank Failure Area located in this WBID	Not applicable	FDOH	Ongoing
FDOH-31	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-32	Application/Plan Review/Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	6 plan reviews and site evaluations performed	\$1,200	FDOH	Ongoing
FDOH-33	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-34	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	1 complaint investigation performed	\$150	FDOH/ LSJR SWIM Grant	Ongoing
FDOH-109	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	Approximately 466 inspections and 63 re-inspections performed in WBID	\$79,350	FDOH/ department/ EPA Section 319 Nonpoint Source Management Program Implementation Grant	Completed

7.3 COJ ACTIVITIES IN THE DEEP BOTTOM CREEK WATERSHED

During the reporting period, COJ had two work orders for sewer overflows, and these inspections were initiated through information from the CARE database. It also inspected one PIC, which was found not to be illicit. In addition, COJ collected 35 BMAP water quality samples and two samples to follow up

on high counts. COJ also connected one septic tank to the sewer system in the Scott Mill failure area. COJ's efforts in the Deep Bottom Creek watershed are shown in **Table 20**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 20: COJ ACTIVITIES IN THE DEEP BOTTOM CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-328	Pond Near Senior Center – MSMP	Wet Detention Pond	Unknown	\$2,100,000	COJ	Planned
COJ-101	Crown Point and Moorings Landing Drainage	Investigate ponds and design sewer across Crown Point	Unknown	Unknown	COJ	Completed
COJ-102	Cypresswood and Silkwood Intersection Improvements	Improve intersection – failing cross drain causing road to wash out	Unknown	\$100,000	COJ	Completed
COJ-103	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-104	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-105	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-106	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-107	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-108	Sewer Drains into Yard/Ditch	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-109	Sewer Overflow	CARE initiated inspection	2	\$758	COJ	Ongoing
COJ-110	Private Lift Station Inspection	6 private lift stations in WBID	0	\$0	COJ	Ongoing
COJ-111	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-112	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	2 stations (10210 San Jose Boulevard, 11100 San Jose Boulevard)	Unknown	COJ	Completed – Both not in WBID
COJ-113	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	1 inspection (0 illicit)	\$379	COJ	Ongoing
COJ-114	Follow Up on Outstanding PICs	Follow up on 5 open PICs in watershed; 4 were determined to be illicit and have been disabled or removed	5	\$1,895	COJ	Completed
COJ-115	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling, 1 station in WBID	0 (included in COJ-329)	\$0	COJ	Ongoing
COJ-116	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted	2	\$354	COJ	Ongoing
COJ-329	BMAP Monitoring	COJ EQD is responsible for 3 sites (2 sampled monthly, 1 sampled quarterly); began 12/2010	35	\$6,195	COJ	Ongoing
COJ-117	Scott Mill Failure Area– Septic Tank Phase-Out	Phase out septic tanks in failure areas	143 tanks, 1 connected	Unknown	COJ	Ongoing
COJ-118	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	109 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-119	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-120	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

7.4 FDOT ACTIVITIES IN THE DEEP BOTTOM CREEK WATERSHED

FDOT collected 315 pounds of debris from street sweeping five miles of roadways. The Adopt-A-Highway Program collected 31 pounds of trash along two miles of roadway. FDOT also helps to fund one monitoring station in the Deep Bottom Creek watershed that is sampled quarterly as part of the MS4 routine monitoring program. In addition, FDOT helps to fund the sites in the BMAP monitoring plan. **Table 21** lists FDOT's activities in the Deep Bottom Creek watershed.

TABLE 21: FDOT ACTIVITIES IN THE DEEP BOTTOM CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-34	PIC Program	Search for illicit connections	Effort is continuous in this WBID; none identified	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-122	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connections/discharge found this reporting period	Included in FDOT-34	FDOT/COJ	Ongoing
FDOT-35	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	2 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-36	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	2	Included in FDOT-35	FDOT/COJ	Ongoing
FDOT-37	Stormwater Management Systems	Implement stormwater improvements as part of San Jose Boulevard widening	105 acres	Not applicable	FDOT	Completed
FDOT-38	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-39	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	31 pounds of trash collected, trash collection area is 2 miles	Unavailable	Not applicable	Ongoing
FDOT-40	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 2.5 miles of roadways and associated stormwater conveyance systems currently being maintained; approximately 5 miles of roadways swept with 315 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-109	BMAP Sampling	Routine BMAP II monitoring began December 2010	35	Included FDOT-35	FDOT/COJ	Ongoing
FDOT-110	Stormwater Management Systems	Construct wet detention pond at San Jose Boulevard	145 acres, wet pond	Unknown	FDOT	Completed

SECTION 8: MONCRIEF CREEK (WBID 2228)

8.1 JEA ACTIVITIES IN THE MONCRIEF CREEK WATERSHED

During the last year, JEA installed new linings on 0.05% of the lines through CIPP, relined five manholes, inspected six ARVs, cleaned 10.14% of the HDPE pipe, inspected 0.61% of the pipes with closed-circuit television, and cleaned 1.33% of the non-HDPE lines. It also inspected 112 manholes as part of the Pop-Top Program. JEA's activities in the Moncrief Creek watershed are shown in **Table 22**.

TABLE 22: JEA ACTIVITIES IN THE MONCRIEF CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-84	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-85	CIPP–Install New Inner Lining	Rehabilitate failing/leaking infrastructure	768 feet	Not applicable	JEA	Ongoing
JEA-203	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-86	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	5 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-87	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	6 inspections in 2014	Not applicable	JEA	Ongoing
JEA-88	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	1 station (Lake Forest Elementary)	Unknown	JEA	Completed – All in WBID
JEA-89	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-90	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-91	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-212	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	No effort in 2014	Not applicable	JEA	Ongoing
JEA-92	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-93	HDPE Pipe Cleaning–Contractor	Clean existing HDPE pipes to avoid blockages	5,524 feet of HDPE pipe cleaned in 2014	Not applicable	JEA	Ongoing
JEA-94	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	10,242 feet of pipe in 2014	Not applicable	JEA	Ongoing
JEA-95	Pipe Cleaning	Clean existing pipes to avoid blockages	22,391 feet of non-HPDE pipe in 2014	Not applicable	JEA	Ongoing
JEA-96	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-97	Manhole Monitoring	Manhole Monitoring	2 monitors in watershed	Not applicable	JEA	Ongoing
JEA-98	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-99	Pop-Top Program	Pop-Top Program	112 manholes inspected in 2014	Not applicable	JEA	Ongoing
JEA-100	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

8.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE MONCRIEF CREEK WATERSHED

In 2014, FDOH issued seven repair, two abandonment, and ten annual operating permits. It also conducted nine plan reviews and site evaluations and performed eight complaint investigations. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities FDOH conducts in the Moncrief Creek watershed are shown in **Table 23**.

TABLE 23: FDOH IN DUVAL COUNTY ACTIVITIES IN THE MONCRIEF CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-35	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 7 repair and 2 abandonment permits issued	\$4,500	FDOH	Ongoing
FDOH-36	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	10 annual operating permits issued for IMZ/commercial properties	\$3,500	FDOH	Ongoing
FDOH-37	SWIM Project	Implement broad-ranging septic tank ordinance	Approximately 77.28% of Royal Terrace and 62.97% of Christobel failure areas, as well as 22% of former Lake Forest nuisance area, are located in this WBID	Not applicable	FDOH	Ongoing
FDOH-38	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-39	Application/Plan Review/Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 9 plan reviews and site evaluations performed	\$200	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-40	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-41	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	8 complaint investigations performed	\$1,200	FDOH	Ongoing
FDOH-42	Intensive Inspection Program	Approximately 764 inspections performed in WBID	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	\$28,500	FDOH/department/EPA Section 319 Nonpoint Source Management Program Implementation grant	Completed

8.3 COJ ACTIVITIES IN THE MONCRIEF CREEK WATERSHED

8.3.1 COMPLETED COJ PROJECTS

COJ completed drainage improvement projects on Helena Street and University Street. These projects will help to reduce fecal coliform loading to the creek from these areas.

8.3.2 ONGOING COJ PROGRAMS AND ACTIVITIES

During the reporting period, COJ had 94 work orders for ditch and creek regrading, 71 for repair/clearing of structures, five for illicit water discharges, six for sewers that drain to a yard or ditch, and three for sewer overflows. These inspections are initiated through information from the CARE database. COJ also proactively maintained 13,947 feet of outfall ditches, managed vegetation and removed litter from 4,805 feet of outfall ditches, inspected six private lift stations, and followed up on one PIC (found to not be illicit). In addition, COJ collected eight routine water quality samples. COJ also connected one septic tank to the sewer system in the Royal Terrace failure area. COJ's efforts in the Moncrief Creek watershed are shown in **Table 24**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 24: COJ ACTIVITIES IN THE MONCRIEF CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-330	Regional Stormwater Facility – MSMP	Regional stormwater facility + bank	Unknown	\$6,700,000	COJ	Planned
COJ-121	Moncrief Creek (Main Stem COJ-27)	Construct wet detention pond at 30 th Street West and Leonard Circle West	619 acres	Unknown	COJ	Completed
COJ-122	Royal Terrace Phases A, B, C, D, E, 1, 2, 3, 4 (Main Stem COJ-18)	Construct wet detention pond at 45 th Street West and Avenue B	332 acres	Unknown	COJ	Completed
COJ-123	49 th and Pearl	Implement drainage improvements–ponding water floods yard	Unknown	Unknown	COJ	Completed
COJ-331	Chestnut Drive	Drainage improvements	Unknown	\$23,350	COJ	Completed
COJ-387	Helena Street	Storm sewer	Storm sewer	\$12,557	COJ	Completed
COJ-388	Chestnut Drive	Construction	Unknown	\$121,439	COJ	Construction
COJ-389	University Street	Pond Cease/Desist	Unknown	\$15,999	COJ	Completed
COJ-124	Ditch/Creek Regrade/Erosion/ Clean	All maintenance activities presented were completed in response to CARE requests.	94	\$99,321	COJ	Ongoing
COJ-125	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-126	Structure Blocked/Repair/ General Flooding	All maintenance activities presented were completed in response to CARE requests.	71	\$24,384	COJ	Ongoing
COJ-413	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	13,947 feet	\$29,986	COJ	Ongoing
COJ-414	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal	4,805 feet	\$7,991	COJ	Ongoing
COJ-373	Hazardous Contaminated Ditch	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-127	Illicit Water Discharge	CARE initiated inspection	5	\$1,895	COJ	Ongoing
COJ-128	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-129	Sewer Drains into Yard/Ditch	CARE initiated inspection	6	\$2,274	COJ	Ongoing
COJ-130	Sewer Overflow	CARE initiated inspection	3	\$1,137	COJ	Ongoing
COJ-131	Septic Tank Inspection	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-132	Private Lift Station Inspection	20 private lift stations in WBID; 4 identified and inspected in 2014	6	\$2,274	COJ	Ongoing
COJ-133	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-134	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	2 stations (4811 Payne Stuart Drive, Stuart and Golfair)	Unknown	COJ	Completed
COJ-135	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center: 3 closed	1 inspection (0 illicit)	\$379	COJ	Ongoing
COJ-136	Follow Up on Outstanding PICs	Follow up on open PICs in watershed from BMAP; none were illicit	10	\$3,790	COJ	Completed
COJ-137	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling; 2 stations in WBID	8	\$1,088	COJ	Ongoing
COJ-138	TAT Sampling	Conducted by EQD to assess bacteria levels in creek and help identify potential fecal bacteria sources	18 (for 2008–09)	Unknown	COJ	Completed
COJ-139	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted	0	\$0	COJ	Ongoing
COJ-140	Lake Forest Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	136 tanks, 136 connected	Unknown	COJ	Completed
COJ-141	Cristobel Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	164 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-142	Royal Terrace Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	76 tanks, 1 connected	Unknown	COJ	Ongoing
COJ-143	Septic Tanks Outside Failure Area–Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	792 tanks, 1 connected	Unknown	COJ	Ongoing
COJ-144	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-145	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

8.4 FDOT ACTIVITIES IN THE MONCRIEF CREEK WATERSHED

In 2014, FDOT collected 815 pounds of debris from street sweeping ten miles of roadways. The Adopt-A-Highway Program collected 76 pounds of trash from 4.5 miles of roadways. In addition, FDOT helps to fund the two monitoring stations in the Moncrief Creek watershed that are sampled quarterly as part of the MS4 routine monitoring program. **Table 25** lists FDOT's activities in the Moncrief Creek watershed.

TABLE 25: FDOT ACTIVITIES IN THE MONCRIEF CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-41	PIC Program	Search for illicit connections	Effort is continuous in this WBID	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-42	PIC Program	Identify and remove illicit connections if found to be truly illicit	0 PICs found	Included in FDOT-41	FDOT/COJ	Ongoing
FDOT-43	PIC Program	Follow up on outstanding PICs	1 found not to be illicit	Countywide - \$37,605	FDOT/COJ	Completed
FDOT-44	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	8 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-45	TAT Sampling	Conducted by EQD to assess bacteria levels in creek and help identify potential fecal bacteria sources	18 (for 2008–09)	Countywide - \$22,546	FDOT/COJ	Completed
FDOT-46	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	FDOT-44	FDOT/COJ	Ongoing
FDOT-47	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-48	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	76 pounds of trash collected, trash collection area is 4.5 miles	Unavailable	Not applicable	Ongoing
FDOT-49	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 5 miles of roadways and associated stormwater conveyance systems currently being maintained; approximately 10 miles of roadways swept with 815 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing

SECTION 9: BLOCKHOUSE CREEK (WBID 2207)

9.1 JEA ACTIVITIES IN THE BLOCKHOUSE CREEK WATERSHED

During the last year, JEA inspected one ARV and inspected one manhole as part of the Pop-Top Program. JEA's activities in the Blockhouse Creek watershed are shown in **Table 26**.

TABLE 26: JEA ACTIVITIES IN THE BLOCKHOUSE CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-101	Pipe Bursting– Increase Carrying Capacity	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-102	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	0 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-103	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	1 ARV inspected in 2014	Not applicable	JEA	Ongoing
JEA-104	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-105	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-106	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-107	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-108	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	No effort in 2014	Not applicable	JEA	Ongoing
JEA-109	Pipe Cleaning	Clean existing pipes to avoid blockages	No effort in 2014	Not applicable	JEA	Ongoing
JEA-110	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-111	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-112	Pop-Top Program	Pop-Top Program	1 manhole inspected in 2014	Not applicable	JEA	Ongoing
JEA-113	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

9.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE BLOCKHOUSE CREEK WATERSHED

In 2014, FDOH issued one new, six repair, two abandonment, and 13 annual operating permits. FDOH also conducted five plan reviews and site evaluations and performed four complaint investigations. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any

sanitary nuisance violations. The programs and activities that FDOH conducts in the Blockhouse Creek watershed are shown in **Table 27**.

TABLE 27: FDOH IN DUVAL COUNTY ACTIVITIES IN THE BLOCKHOUSE CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-43	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 1 new, 2 repair, and 2 abandonment permits issued	\$2,500	FDOH	Ongoing
FDOH-44	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	13 annual operating permits issued for IMZ/commercial properties	\$4,550	FDOH	Ongoing
FDOH-45	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-46	Application/Plan Review/Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 5 plan reviews and site evaluations performed	\$1,000	FDOH	Ongoing
FDOH-47	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-48	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	4 complaint investigations performed in WBID	\$600	FDOH	Ongoing
FDOH-49	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	21 inspections and 10 reinspections have been performed in this WBID	\$3,100	FDOH/ department/ EPA Section 319 Nonpoint Source Management Program Implementation Grant	Completed

9.3 COJ ACTIVITIES IN THE BLOCKHOUSE CREEK WATERSHED

During the reporting period, COJ had 42 work orders for ditch and creek regrading, 12 for repair/clearing of structures, two for sewers that drain into a yard or ditch, and three for sewer overflows. These inspections are initiated through information from the CARE database. COJ also proactively maintained 20,037 feet of outfall ditches, managed vegetation and removed litter from 1,368 feet of outfall ditches, inspected one private lift station, and collected four routine water quality samples.

COJ's efforts in the Blockhouse Creek watershed are shown in **Table 28**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 28: COJ ACTIVITIES IN THE BLOCKHOUSE CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-146	Jennings Road/Lem Turner Road	Repair failed cross drain	Unknown	\$23,000	COJ	Completed
COJ-147	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	42	\$73,563	COJ	Ongoing
COJ-148	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	1	\$122	COJ	Ongoing
COJ-149	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	12	\$5,766	COJ	Ongoing
COJ-415	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	20,037 feet	\$43,080	COJ	Ongoing
COJ-416	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal	1,368 feet	\$591	COJ	Ongoing
COJ-150	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-151	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-152	Sewer Drains into Yard/Ditch	CARE initiated inspection	2	\$758	COJ	Ongoing
COJ-153	Sewer Overflow	CARE initiated	3	\$1,137	COJ	Ongoing
COJ-154	Private Lift Station Inspection	22 private lift stations in WBID, 1 identified and inspected in 2014	1	\$379	COJ	Ongoing
COJ-155	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-156	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	1 station (2100 Dunn Avenue)	Unknown	COJ	Completed – in Lower Trout River WBID
COJ-157	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	1 station (2631 Dunn Avenue)	Unknown	COJ	Completed
COJ-158	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	0	\$0	COJ	Ongoing
COJ-159	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling; 1 station in WBID	4	\$544	COJ	Ongoing
COJ-332	Source Identification Sampling	Re-sampling effort conducted when high levels of fecal coliform are noted in attempt to find source	0	\$0	COJ	Ongoing
COJ-160	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	406 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-161	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-162	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

9.4 FDOT ACTIVITIES IN THE BLOCKHOUSE CREEK WATERSHED

FDOT collected 923 pounds of debris through street sweeping 7.5 miles of roadways. The Adopt-A-Highway Program collected 42 pounds of trash from 2.2 miles of roadways. FDOT helps to fund one monitoring station in the Blockhouse Creek watershed that is sampled quarterly as part of the MS4 routine monitoring program. **Table 29** lists FDOT's activities in the Blockhouse Creek watershed.

TABLE 29: FDOT ACTIVITIES IN THE BLOCKHOUSE CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-50	PIC Program	Search for illicit connections	Effort is continuous in this WBID; none identified	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-123	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connections/discharge found this reporting period	Included in FDOT-50	FDOT/COJ	Ongoing
FDOT-51	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-52	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	4 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-53	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	42 pounds of trash collected, trash collection area is 2.2 miles	Unavailable	Not applicable	Ongoing
FDOT-54	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 3.75 miles of roadways and associated stormwater conveyance systems currently being maintained; approximately 7.5 miles of roadways swept with 923 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-111	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	FDOT-52	FDOT/COJ	Ongoing

SECTION 10: HOPKINS CREEK (WBID 2266)

10.1 FDOH IN DUVAL COUNTY ACTIVITIES IN THE HOPKINS CREEK WATERSHED

In 2014, FDOH issued one abandonment and one annual operating permit. It also conducted one plan review and site evaluation. The programs and activities FDOH conducts in the Hopkins Creek watershed are shown in **Table 30**.

TABLE 30: FDOH IN DUVAL COUNTY ACTIVITIES IN THE HOPKINS CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-50	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 1 abandonment permit issued	\$500	FDOH	Ongoing
FDOH-51	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	1 annual operating permit issued for IMZ property	\$350	FDOH	Ongoing
FDOH-52	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-53	Application/Plan Review/Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 1 plan review and site evaluation performed	\$200	FDOH	Ongoing
FDOH-54	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-55	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	No complaint investigations performed in WBID	Not applicable	FDOH	Ongoing
FDOH-56	Intensive Inspection Program	Carry out intensive geospecific inspections in selected BMAP WBIDs based on repair permit applications, water quality information, and site conditions	Approximately 44 inspections performed in WBID	\$4,200	FDOH/ department/ EPA Section 319 Nonpoint Source Management Program Implementation grant	Completed

10.2 COJ ACTIVITIES IN THE HOPKINS CREEK WATERSHED

During the reporting period, COJ collected 36 water quality samples as part of the BMAP monitoring plan. COJ's efforts in the Hopkins Creek watershed are shown in **Table 31**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 31: COJ ACTIVITIES IN THE HOPKINS CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-163	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-164	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-165	Illicit Water Discharge	CARE initiated	0	\$0	COJ	Ongoing
COJ-166	Pollution–Water–Illegal Discharge	CARE initiated	0	\$0	COJ	Ongoing
COJ-167	Sewer Drains into Yard/Ditch	CARE initiated	0	\$0	COJ	Ongoing
COJ-168	Sewer Overflow	CARE initiated	0	\$0	COJ	Ongoing
COJ-169	Private Lift Station Inspection	15 private lift stations in WBID	0	\$0	COJ	Ongoing
COJ-170	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-171	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	1 station (400 Penman)	Unknown	COJ	Completed – In WBID
COJ-172	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	0	\$0	COJ	Ongoing
COJ-173	Routine Surface Water Sampling	Carry out NPDES-related quarterly water quality sampling; 1 station in WBID	0 (included in COJ-333)	\$0	COJ, Atlantic Beach	Ongoing
COJ-333	BMAP Monitoring	COJ EQD is responsible for 3 sites, one for Atlantic Beach and one for Neptune Beach (2 sampled monthly and 1 sampled quarterly), began 12/2010	36	\$6,372	COJ, Atlantic Beach, Neptune Beach	Ongoing
COJ-334	Source Identification Sampling	Re-sampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources.	0	\$0	COJ	Ongoing

10.3 FDOT ACTIVITIES IN THE HOPKINS CREEK WATERSHED

FDOT collected 1,497 pounds of debris from street sweeping 16 miles of roadways. The Adopt-A-Highway Program collected 169 pounds of trash along eight miles of roadways. FDOT helps to fund one monitoring station in the Hopkins Creek watershed that is sampled quarterly as part of the MS4

routine monitoring program. In addition, it helped to fund the three stations in the BMAP monitoring plan. **Table 32** lists FDOT’s activities in the Hopkins Creek watershed.

TABLE 32: FDOT ACTIVITIES IN THE HOPKINS CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-55	PIC Program	Search for illicit connections	Effort is continuous in this WBID	Countywide - \$45,394	FDOT/ COJ	Ongoing
FDOT-56	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connection/ discharge found this reporting period	Included in FDOT-55	FDOT/ COJ	Ongoing
FDOT-57	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	4 routine water quality samplings performed	Countywide - \$197,794	FDOT/ COJ	Ongoing
FDOT-58	Stormwater Management Systems	Construct Mayport flyover	14 acres, wet ponds	Not applicable	FDOT	Completed
FDOT-59	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-60	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	169 pounds of trash collected, trash collection area is 8 miles	Unavailable	Not applicable	Ongoing
FDOT-61	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 8 miles of roadways and associated stormwater conveyance systems currently being maintained; approximately 16 miles of roadways swept with 1,497 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-112	BMAP Sampling	Routine BMAP II monitoring began December 2010	32 BMAP samplings performed	Included in FDOT-57	FDOT/ COJ	Ongoing
FDOT-113	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	5	Included in FDOT-57	FDOT/ COJ	Ongoing

10.4 ATLANTIC BEACH ACTIVITIES IN THE HOPKINS CREEK WATERSHED

Over the last year, the city of Atlantic Beach inspected 796,164 linear feet of stormwater system ditches and canals, maintained 733,158 linear of stormwater ditches and canals, completed 394 pond inspections, completed 288 pond maintenance events, inspected 270 stormwater structures, cleaned 198 structures, completed 14,456 inspections of inlets/catch basins/grates, inspected and maintained 1,968 linear feet of stormwater pipe, repaired one catch basin, and collected 26,295 pounds of litter. The city of Atlantic Beach’s activities in the Hopkins Creek watershed are listed in **Table 33**.

TABLE 33: ATLANTIC BEACH ACTIVITIES IN THE HOPKINS CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-1	Septic Tank Inspections and Enforcement	When septic tanks fail, city code requires connection to sewer system if available	Ongoing	Unknown	Paid by property owner	Completed
AB-2	Septic Tank Phase-Out	Septic-to-Sewer Resolution by City Commission requires connection at various dates. Includes Septic Conversion Assistance Policy, passed by City Commission May 2000. Provides city financing of septic-to-sewer conversions and contracting coordination and assistance.	9 septic-to-sewer conversions	\$23,000	Community Development Block Grant (CDBG)/ Homeowners	Completed
AB-3	Sewer Line Upgrades	Repair sewer and manholes close to Lift Station E, near 799 Mayport Road	700 linear feet (LF) of sewer main, 3 manholes	\$49,170	Atlantic Beach	Completed
AB-4	Sewer Line Upgrades	Replace sewer force main at Mayport Road and Forrestal	100 LF of force main	\$10,000	Atlantic Beach	Completed
AB-5	Sewer Line Upgrades	Rehabilitate sanitary sewer in entire Royal Palms subdivision using CIPP	30,042 LF of sewer main	\$747,143	Atlantic Beach	Completed
AB-6	Sewer Line Upgrades	Replace sewer main crossing drainage ditch near Lift Station F– behind 720 Aquatic Drive	1,000 LF	\$10,715	Atlantic Beach	Completed
AB-7	Sewer Line Upgrades	Line sewer in easement from Donner Road to Stanley Road, Donner subdivision; includes 12 manholes lined	1,275 LF	\$91,370	Atlantic Beach	Completed
AB-8	Sewer Line Upgrades	Replace force main from Lift Station C to WWTF–Donner Road	1,275 LF	\$94,257	Atlantic Beach	Completed
AB-9	Manhole Inspections and Rehabilitation	Rehabilitate/install Spectrashield coating of all manholes in Royal Palms subdivision	85 manholes	\$81,653	Atlantic Beach	Completed
AB-10	Manhole Inspections and Rehabilitation	Conduct engineering analysis of failing manholes–Donner subdivision	20 manholes	\$2,500	Atlantic Beach	Completed
AB-11	Manhole Inspections and Rehabilitation	Rehabilitate and replace manholes–Ardella Road area	5 manholes	\$36,135	Atlantic Beach	Completed
AB-12	Manhole Inspections and Rehabilitation	Rehabilitate and replace manholes–Donner Subdivision	11 manholes	\$58,205	CDBG	Completed
AB-13	Manhole Inspections and Rehabilitation	Line manholes in easement from Donner to Stanley	12 manholes	Unknown	Atlantic Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-14	Manhole Inspections and Rehabilitation	Replace effluent outfall manhole at Mayport and Donner Road	1 manhole on 21-inch effluent outfall	\$12,800	Atlantic Beach	Completed
AB-15	Pump Station Inspections and Maintenance	Inspect and maintain daily Monday-Friday; all monitored by SCADA system with automatic callout 24 hours/day, 7 days/week, with technician on call; stations designed with redundancy; large stations have on-site emergency generators with automatic transfer switch; portable genset and pumps available for smaller stations; all mechanical/electrical problems are addressed immediately	3 lift stations	Unknown	Atlantic Beach	Ongoing
AB-16	Pump Station Inspections and Maintenance	Improve valves at Lift Stations C, E, F (65 Donner Road, 799 Mayport Road, 858 Cavalla Road)	3 lift stations	\$40,000	Atlantic Beach	Completed
AB-17	Pump Station Inspections and Maintenance	Replace emergency generator at Cavalla Road Lift Station, 858 Cavalla Road	1 lift station	\$24,000	Atlantic Beach	Completed
AB-18	Pump Station Inspections and Maintenance	Install SCADA system for all lift stations. Those in Hopkins Creek watershed are Lift Stations C, E, and F (65 Donner Road, 799 Mayport Road, 858 Cavalla Road)	3 lift stations	\$19,500	Atlantic Beach	Completed
AB-19	SSO Investigations–Preventive	Clean and inspect, using CCTV, sewer main, ditch crossings near Lift Station E and F–behind 720 Aquatic Drive and behind 39 Saratoga Circle North	2,000 LF	\$1,780	Atlantic Beach	Completed
AB-20	SSO Investigations– Preventive	Conduct inflow and infiltration (I&I) analysis of entire collection system, prepare GIS system, obtain global positioning system locations of all manholes, analyze lift station needs, make Capital Improvement Plan recommendations	Not applicable	\$60,000	Atlantic Beach	Completed
AB-21	SSO Investigations– Preventive	Clean and inspect, using CCTV, sewer mains crossing Mayport Road	5,000 LF	\$6,700	Atlantic Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-22	SSO Investigations– Preventive	Sewer Master Plan Update– Analyze entire sewer system for prioritizing capital improvement program, including review of I&I analysis	1 update and review	\$58,100	Atlantic Beach	Completed
AB-23	SSO Investigations– Preventive	Implement FOG Program to monitor grease trap maintenance at restaurants	25 food service establishments	Unknown	Atlantic Beach	Ongoing
AB-24	1999 Stormwater Improvements Project	Implement flood control capital projects and stormwater water quality best management practices (BMPs) on Donner Road and Aquatic Gardens	663.5 LF of reinforced concrete pipe (RCP) in various sizes; 4 inlets; 1 mitered end section	\$414,711	Atlantic Beach	Completed
AB-25	Jordan Street Paving and Drainage	Implement flood control capital projects located off Frances Street, north Donners Road	450 LF of pipe; various sizes; 5 inlets; 1 concrete headwall	\$109,129	CDBG	Completed
AB-26	Hopkins Creek Regional Stormwater Facility	Implement stormwater water quality BMPs and flood control project located just north of Atlantic Boulevard, off Aquatic Drive	1.7-acre wet detention pond with 54-acre drainage basin; 1,314 LF of pipe; 7 RCP mitered end section (MES); 6 manholes; 6 inlets; 150 LF box culvert; 1 endwall	\$2,058,694	Atlantic Beach/ Legislative Appropriation	Completed
AB-27	Hopkins Creek Regional Stormwater Facility	Carry out water sampling–Section 319 grant requires 1 year of inlet and outlet water grab samples taken monthly; includes fecal coliform	Monthly sampling and laboratory testing	Unknown	Atlantic Beach/ Legislative Appropriation	Required sampling complete. Quarterly fecal sampling continuing.
AB-28	Public Education Through Contract with Felicia M. Boyd	Stormwater water quality BMPs; public education through for stormwater and sewer	4,021 participants	\$5,000 per year	Atlantic Beach	Ongoing
AB-29	Stormwater System Ditch and Canal Inspections	Visually inspect weekly, take corrective action taken as needed; mow, use weedeater, and pick up litter weekly during growing season, as needed in colder months	796,164 LF	Unknown	Atlantic Beach	Ongoing
AB-30	Stormwater System Ditch and Canal Maintenance	Routinely clean and maintain ditches as required by MS4 permit	733,158 LF	Unknown	Atlantic Beach	Ongoing
AB-31	Stormwater Treatment Ponds Inspections	Routinely inspect ponds as required by MS4 permit	394 pond inspections	Unknown	Atlantic Beach	Ongoing
AB-32	Stormwater Treatment Ponds Cleaning and Maintenance	Carry out routine pond maintenance as required by MS4 permit	288 pond maintenance events	Unknown	Atlantic Beach	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-33	Stormwater Treatment Ponds, Ditch and Canal Aquatic Weed Control	Weed control by Bluewater Environmental	Not applicable	Annual budget– \$36,000	Atlantic Beach	Ongoing
AB-34	Stormwater Control Structure Inspections	Conduct routine control structure inspections as required by MS4 permit	270 structures	Unknown	Atlantic Beach	Ongoing
AB-35	Stormwater Control Structure Cleaning and Maintenance	Do only when inspection shows additional effort required; carry out routine cleaning and maintenance as required by MS4 permit	198 structures	Unknown	Atlantic Beach	Ongoing
AB-36	Stormwater Pump Station Inspections	Routinely inspect Town Center pump station as required by MS4 permit	1 station	Unknown	Atlantic Beach	Ongoing
AB-37	Stormwater Pump Station Maintenance	Routinely maintain Town Center pump station as required by MS4 permit	1 pump station	Unknown	Atlantic Beach	Ongoing
AB-38	Stormwater Inlets/Catch Basins/Grates Inspections	Routinely inspect inlets and catch basins as required by MS4 permit	14,456 inspections of inlets/catch basins/grates	Unknown	Atlantic Beach	Ongoing
AB-39	Stormwater Inlets/Catch Basins/Grates Maintenance	Maintain as required by MS4 permit	14,456 maintenance actions inlets/catch basins/grates	Unknown	Atlantic Beach	Ongoing
AB-40	Stormwater Pipe Inspection and Maintenance	Schedule stormwater pipe cleaning routinely, and in response to complaints; required by MS4 permit	1,968 LF	Unknown	Atlantic Beach	Ongoing
AB-41	Stormwater Pipe Maintenance (Repair/Replacement)	Repair or replace stormwater pipe	1 catch basin	\$1,760	Atlantic Beach	Ongoing
AB-42	Total Miles of Right-of-Way Maintenance	Maintain right-of-way	13.08 miles	Unknown	Atlantic Beach	Ongoing
AB-43	Litter Collection	Collect litter	26,295 pounds/year	Unknown	Atlantic Beach	Ongoing
AB-44	Ardella Road Drainage Project	Implement drainage improvements; located between Mayport Road and Richardson Lane; pipe bursting because existing pipe crossed two parcels of private property where no drainage easement existed	290 LF HDPE pipe bursting; 1 inlet; 1 box and grate	\$36,332	Atlantic Beach	Completed
AB-45	Royal Palms Drainage Rehabilitation Project	Implement flood control capital project; Royal Palms is major (600-home) subdivision between Mayport Road and Seminole Road; completion 10/2010	13,004 LF RCP various sizes; 35 manholes; 25 inlets; 7 endwalls	\$3,450,000, including engineering and permitting	Atlantic Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-46	Royal Palms Drainage System Point Repairs	Implement stormwater system point repairs necessitated by spot failures; anticipate need in Royal Palms to be minimal once above improvements completed	As needed	Unknown	Atlantic Beach	Completed
AB-47	Pet Feces Control	Install, maintain, and stock Dogi-Pot stations throughout city	More than 30 installed to date	\$5,000	Atlantic Beach	Ongoing
AB-48	Pet Feces Control	City Code 12.(b).14 requires removal and proper disposal of pet waste	As needed	Unknown	Atlantic Beach	Ongoing
AB-49	Street Sweeping	Sweep streets throughout city	Bimonthly sweeping	\$19,500	Atlantic Beach	Ongoing
AB-50	Identification and Removal of Illicit Connections	Conduct field inspections to identify and remove illicit connections	As needed	Unknown	Atlantic Beach	Ongoing
AB-134	Pump Station Inspections and Maintenance	Lift Station E Upgrades (799 Mayport Road); new emergency generator, new high efficiency motors	1 lift station	\$49,482	Atlantic Beach	Completed
AB-142	Sewer Line Upgrades	Rehabilitate sanitary sewer mains in Donner subdivision (portions of Jackson Road, Stanley Road, Francis Avenue, and Jordan Road) using CIPP	3,781 LF	\$146,604	CDBG – Disaster Mitigation	Completed
AB-143	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on Plaza Road from manholes 76-77 using CIPP	206 LF	\$7,800	Atlantic Beach	Completed
AB-144	Manhole Inspections and Rehabilitation	Rehabilitate manholes in Donner Subdivision (on Jackson Road, Stanley Road, Francis Avenue, and Jordan Road) using Spectrashield	17 manholes	\$27,208	CDBG – Disaster Mitigation	Completed
AB-145	Manhole Inspections and Rehabilitation	Rehabilitate manholes 76 and 77 on Plaza Road using Spectrashield	2 Manholes	\$1,560	Atlantic Beach	Completed
AB-146	SSO Investigations – Preventive	Clean and televise sanitary sewer mains near Donner Road lift station and manhole cleaning	300 LF and 3 manholes	\$1,300	Atlantic Beach	Completed

10.5 JACKSONVILLE BEACH ACTIVITIES IN THE HOPKINS CREEK WATERSHED

During the last year, the city of Jacksonville Beach cleaned 45,000 linear feet of gravity sewer mains, coated the interior of 35 sewer manholes, and continued routine inspections and maintenance of the sewer and stormwater systems. The city of Jacksonville Beach's efforts in the Hopkins Creek watershed are listed in **Table 34**.

TABLE 34: JACKSONVILLE BEACH ACTIVITIES IN THE HOPKINS CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JB-1	Septic Tank Phase Out	Phase out Section "A"–16th Street North to 20th Street North to 8th Avenue North to 12th Avenue North	Phase out 85 septic tanks, 5,229 linear feet (LF) of 8 inch PVC sewer pipe, lift station and 673 LF of 4 inch force main	\$337,730	Jacksonville Beach	Completed
JB-2	Sewer System Inspection	Clean existing sanitary sewer system	Cleaned approximately 13,000 LF of existing sanitary sewer system	\$26,000	Jacksonville Beach	Completed
JB-3	Sewer Manhole Inspections and Rehabilitation	Rehabilitate existing sewer manholes	Coated interior of 36 manholes in Hopkins Creek area	\$55,757	Jacksonville Beach	Completed
JB-4	Sewer Pump Station Wetwells Inspections and Rehabilitation	Rehabilitate interior surface of existing sewer lift station wetwells with coating system	Coated interior of existing LS 5, 12, 24, 26 and 27 wetwells	\$34,707	Jacksonville Beach	Completed
JB-5	Sewer Pump Station Inspections and Maintenance	Improve sewer lift station No. 10	Installed new fiberglass wetwell and submersible pumps, controls, odor control equipment, 1 new fiberglass manhole and related piping and equipment	\$736,481	Jacksonville Beach	Completed
JB-6	SSO Investigations	Improve Arden Way sewer system	Installed 7 new sewer manholes, 1,500 LF of gravity sewer main, abandoned and grout filled approximately 800 LF of gravity sewer main and constructed 1,000 LF of new 6-inch force main; eliminated SSO at 1827 Arden Way (3 occurrences)	\$342,000	Jacksonville Beach	Completed
JB-7	SSO Investigations	Investigate 1 occurrence at 2000 3 rd Street North	Minor impact, wet conditions; manhole wet around frame and cover	\$1,000	Jacksonville Beach	Completed
JB-8	SSO Investigations	Investigate 2 occurrences at 300 Palm Tree Road	Minor impact, dry conditions; contractor contained second spill on site	\$5,000	Jacksonville Beach	Completed
JB-9	Sewer Pump Station Inspections and Maintenance	Inspect lift stations Nos. 2, 7, 8, 9, 18, 19, and 23	Coated wetwell	\$47,230	Jacksonville Beach	Completed
JB-10	Sewer Pump Station Inspections and Maintenance	Inspect lift station No. 37 (Jarrett Point Unit II)	New wetwell	\$183,541	Jacksonville Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JB-11	Sewer System Replacement	Improve sewer system from Barbara Lane to 14 th Avenue North and 8 th Street to 13 th Street North	Constructed 6,200 LF of 8-inch sanitary sewer main, 16 sewer manholes, 124 sewer services, 13,800 square yards of asphalt pavement	\$1,065,000	Jacksonville Beach	Completed
JB-12	Sewer System Replacement	Improve sewer system from Patricia Lane to 18 th Avenue North and 4 th Street to 7 th Street North	Constructed 1,200 LF of 10-inch sanitary sewer main, 5,000 LF of 8-inch sanitary sewer main, 16 sewer manholes, 124 sewer services, lift station and force main, 13,800 square yards asphalt pavement	\$1,310,000	Jacksonville Beach	Completed
JB-13	Sewer System Replacement	Improve sewer system from Barbara Lane to 12 th Avenue North and Patricia Lane to 7 th Street North	Constructed 2,000 LF of 8-inch sanitary sewer main, 5 sewer manholes, 40 sewer services, 4,500 square yards asphalt pavement	\$386,000	Jacksonville Beach	Completed
JB-14	Sewer System Replacement	Improve sewer system from 2 nd Street North to 3 rd Street North and from easement to 6 th Avenue North; 3 rd Street North from easement to 7 th Avenue North	Constructed 500 LF of 8-inch sanitary sewer main, 2 sewer manholes, 10 sewer services, 1,100 square yards asphalt pavement	\$88,000	Jacksonville Beach	Completed
JB-15	Flood Control Capital Project	Improve stormwater system at 18 th Street North, Tall Pine Park, perforated stormwater pipe	Installed 35 drainage structures, 5,543 feet of drainage pipes	\$667,472	Jacksonville Beach	Completed
JB-16	Flood Control Capital Project	Improve stormwater system at 1 st Street North and 18 th Avenue North; stormwater piping	Remove/replace existing stormwater drainage system piping, 338 feet of drainage piping, 6 drainage structures	\$128,817	Jacksonville Beach	Completed
JB-17	Flood Control Capital Project	Improve stormwater system at North 2 nd Street between 6 th Avenue North to 13 th Avenue North	Installed new stormwater pump station, force main, drainage piping system and drainage inlets	\$3,500,00	Jacksonville Beach/ EPA Grant	Completed
JB-18	Flood Control Capital Project	Improve stormwater system at 11 th Avenue North—new stormwater pump station, new drainage system piping, new drainage structures	Installed new stormwater pump station, 2,000 feet of drainage pipe, 18 drainage structures	\$450,000	Jacksonville Beach	Completed
JB-19	Flood Control Capital Project	Improve stormwater system at 11 th Street North; swale grading, impervious parking	Reconstructed existing roadways with swale grading along edge of roadways and impervious block parking at Gonzales Park area	\$670,000	Jacksonville Beach	Completed
JB-20	Flood Control Capital Project	Improve retention pond and infrastructure at Jacksonville Beach Golf Course; pond construction associated with construction of the 2 nd Street North stormwater improvement project	Constructed another stormwater retention pond and enlargement of 2 existing retention ponds; treats Beach Boulevard to 13 th Avenue from 1 st Street to 3 rd Street	\$645,754	Jacksonville Beach/ St. Johns River Water Management District Grant	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JB-21	Flood Control Capital Project	Improve paving, drainage, water and sewer in downtown development area	Reconstructed existing water, drainage system, sewer and paving of downtown area consisting of 15 city blocks east of 3 rd Street, between Beach Blvd and 5 th Avenue North; installed new stormwater pump station, 4,761 feet of drainage pipe, 80 drainage structures, 6,545 feet of 30-inch stormwater force main piping between pump station to golf course retention ponds	\$6,831,192	Jacksonville Beach	Completed
JB-22	Flood Control Capital Project	Implement project at 19 th Street North at 2 nd Avenue North	200 LF of 18-inch PVC pipe, 2 concrete endwalls, asphalt pavement rehab	\$25,000	Jacksonville Beach	Completed
JB-23	Flood Control Capital Project	Implement project at 19 th Street North between 2 nd Avenue North and 5 th Avenue North	30 LF of 15-inch PVC, 1 inlet, asphalt pavement rehab	\$7,000	Jacksonville Beach	Completed
JB-24	Flood Control Capital Project	Implement project at easement west of Penman Road from 6 th Avenue North to 16 th Street North	640 LF of 15-inch PVC, connected to existing structures, asphalt pavement	\$45,000	Jacksonville Beach	Completed
JB-25	Flood Control Capital Project	Implement project at 17 th Street North from 9 th Avenue North to existing ditch	420 LF of 6-inch PVC perforated underdrain; connect to existing structure	\$10,000	Jacksonville Beach	Completed
JB-26	Flood Control Capital Project	Implement project at 11 th Avenue North from 16 th Street North to Penman Road	165 LF of 12-inch PVC; connections to existing structures	\$14,000	Jacksonville Beach	Completed
JB-27	Flood Control Capital Project	Implement project at 16 th Street North from 11 th to 12 th Avenue North	140 LF of 10-inch PVC, 1 inlet	\$10,000	Jacksonville Beach	Completed
JB-28	Flood Control Capital Project	Implement project at 11 th Avenue North from 17 th to 18 th Street North	210 LF of 24-inch RCP, 1 inlet	\$15,000	Jacksonville Beach	Completed
JB-29	Flood Control Capital Project	Implement project at 21 st Street from 9 th Avenue to 12 th Avenue North	515 LF of 15-inch PVC, 3 inlets, asphalt pavement rehab	\$35,000	Jacksonville Beach	Completed
JB-30	Flood Control Capital Project	Implement project at 12 th Avenue North at 20 th Street North	100 LF of 24-inch PVC; asphalt pavement rehab	\$10,000	Jacksonville Beach	Completed
JB-31	Flood Control Capital Project	Implement project at Tanglewood Road from Pinewood Lane to Sable Palm Lane	165 LF of 24-inch PVC, 2 inlets	\$18,000	Jacksonville Beach	Completed
JB-32	Flood Control Capital Project	Implement project at Tanglewood Road at Sable Palm Lane	75 LF of 18-inch PVC, 1 inlet, asphalt pavement rehab	\$10,000	Jacksonville Beach	Completed
JB-33	Flood Control Capital Project	Implement project at Birchwood Road at Coral Way	85 LF of 15-inch PVC, 3 inlets, asphalt pavement	\$14,000	Jacksonville Beach	Completed
JB-34	Flood Control Capital Project	Implement project at Coral Way between Sunset Drive and Birchwood Road	45 LF of 15-inch PVC, 2 inlets, asphalt pavement	\$10,000	Jacksonville Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JB-35	Flood Control Capital Project	Implement project at Pinewood Road between Arden Way and Oakwood Road	60 LF of 42-inch corrugated metal pipe, asphalt pavement	\$10,000	Jacksonville Beach	Completed
JB-36	Flood Control Capital Project	Implement project at 1 st Avenue North from 3 rd to 4 th Street North	170 LF of 15-inch PVC, 2 inlets	\$10,000	Jacksonville Beach	Completed
JB-37	Flood Control Capital Project	Implement project at 3 rd Avenue North from 4 th to 5 th Street North	50 LF of 12-inch ductile iron pipe, 2 inlets	\$10,000	Jacksonville Beach	Completed
JB-38	Flood Control Capital Project	Implement project at 3 rd Avenue North from 5 th to 6 th Street North	225 LF of 12x18 elliptical reinforced concrete pipe, 1 inlet	\$15,000	Jacksonville Beach	Completed
JB-39	Flood Control Capital Project	Implement project at 3 rd Avenue North at 6 th Street North	75 LF of 8-inch PVC underdrain, asphalt pavement	\$4,000	Jacksonville Beach	Completed
JB-40	Flood Control Capital Project	Implement project at Cilewood Court at Tallwood Road	20 LF of 18-inch PVC underdrain, 1 inlet	\$4,000	Jacksonville Beach	Completed
JB-41	Flood Control Capital Project	Implement project at Lois Lane and Seagate Avenue	700 LF of drainage swales	\$14,000	Private Developer	Completed
JB-42	Flood Control Capital Project	Implement project at King Oaks Subdivision-Kings Road and Seagate Avenue	670 LF of drainage swales	\$12,000	Private Developer	Completed
JB-43	Stormwater System Ditch and Canal Maintenance	Install erosion control along ditches and ponds	Install erosion control along ditches and ponds	Unknown	Jacksonville Beach	Completed
JB-44	Identification and Removal of Illicit Connections	Identify and remove illicit connections	Contract training for Water Plant and Stormwater Divisions	Unknown	Jacksonville Beach	Completed
JB-45	Stormwater Education and Outreach Efforts	Carry out public education, inlet marking, public notices, and stormwater flyer for residential and commercial permits	Public education, inlet marking, public notices, and stormwater flyer	Unknown	Jacksonville Beach	Completed
JB-46	Pet Waste Management	Provide dog bags at Gonzales Park, Tallwood Pines Park and Dog Park	Gonzales Park, Tallwood Pines Park and Dog Park	Unknown	Jacksonville Beach	Completed
JB-47	Pet Waste Ordinance	Pass Ordinance No. 7468-32-91, Section 32-106	Prohibits discharge of feces to MS4; establishes right of inspection and fines	Unknown	Jacksonville Beach	Completed
JB-48	Pet Waste Ordinance	Pass Ordinance No. 2005-7903, 24-18-05, Section 5-34	Prohibits leaving pet waste and requires proper disposal; establishes citation base fine	Unknown	Jacksonville Beach	Completed
JB-49	Noncontributing Basins	Areas in WBID that do not flow to Hopkins Creek: (1) Bentin Drive North south to Beach Boulevard, east to 11 th Street and west to WBID boundary; (2) Rosewood Drive, Oakwood Road, Pinewood Road to west WBID boundary; (3) 3 rd Street east to 1 st Street and 13 th Avenue North south to Beach Boulevard	Not applicable	Not applicable	Not applicable	Not applicable

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JB-50	Sewer System Inspection	Maintain existing sewer system	Cleaning of approximately 54,000 LF	\$45,000	Jacksonville Beach	Ongoing
JB-51	Sewer Manhole Inspections and Rehabilitation	Maintain existing sewer manholes	Coat interior of approximately 35 manholes	\$50,000	Jacksonville Beach	Ongoing
JB-52	Sewer Pump Station Inspections and Maintenance	Routinely inspect existing pump stations	Inspect weekly and maintain as necessary	\$72,000	Jacksonville Beach	Ongoing
JB-53	Restaurant Grease Trap Inspections	Routinely inspect restaurant grease traps	Inspect restaurant grease traps as necessary on average: (1) interior type monthly; (2) exterior type bi-monthly	\$35,000	Jacksonville Beach	Ongoing
JB-54	Stormwater System Ditch and Canal Maintenance	Routinely inspect drainage ditch at 12 th Avenue North and 22 nd Street North and spray for aquatic weeds	Inspect routinely and ditch spray for aquatic weeds monthly	\$2,248 annually	Jacksonville Beach	Ongoing
JB-55	Stormwater System Pond Maintenance	Routinely inspect ponds after significant rainfall event	Inspect routinely and maintain as necessary	Unknown	Jacksonville Beach	Ongoing
JB-56	Stormwater System Pond Maintenance	Inspect annually as required by MS4 NPDES permit	Carry out annual inspection as required by MS4 NPDES permit	Unknown	Jacksonville Beach	Ongoing
JB-57	Stormwater Pump Stations	Inspect stormwater pumps after significant rainfall event	Inspect weekly and after significant rainfall event and clean as necessary	Unknown	Jacksonville Beach	Ongoing
JB-58	Street sweeping	Routinely sweep curbed and guttered streets citywide	Sweep curbed and guttered streets routinely citywide	Unknown	Jacksonville Beach	Ongoing
JB-59	Identification and Removal of Illicit Connections	Field observations to identify and coordinate removal of illicit connections	Illicit discharge training held annually, every January. Any observed illicit discharges are reported for follow-up, illicit connections are removed, and reports are maintained electronically	Unknown	Jacksonville Beach	Ongoing

10.6 NEPTUNE BEACH ACTIVITIES IN THE HOPKINS CREEK WATERSHED

During the city of Neptune Beach's MS4 reporting period (June 1, 2013, through May 31, 2014), the city conducted 4,556 inspections of lift stations, conducted 32 inspections for the FOG Program, inspected 84.5 miles and maintained 21.24 miles of the stormwater sewer system, conducted 43 inspections and 10 maintenance activities on stormwater ponds, distributed 3,300 newsletters, swept 296.1 miles of roads and collected 584 cubic yards of material, conducted three inspections of public works facilities, and removed 1,638 cubic yards of material from rights-of-way maintenance. In addition, the city initiated the Bal Harbour sanitary sewer improvements project. The city of Neptune Beach's activities in the Hopkins Creek watershed are listed in **Table 35**.

TABLE 35: NEPTUNE BEACH ACTIVITIES IN THE HOPKINS CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
NB-1	Septic Tank Phase-Out	Implement phase-outs along Acacia Road, Bay Road, Florida Boulevard, Marsh Point Road, Oleander Place, Rosewood Drive, Sherwood Lane, and Pine Place	70 tanks	\$105,000	Neptune Beach	Completed
NB-2	Create GIS Mapping System Inventory Remaining Septic Tank Areas	Put together GIS mapping system and collect data to inventory remaining septic tank areas	60 lots on septic	\$5,000	Neptune Beach	Completed
NB-3	Gravity Sanitary Sewer Collection System Operation and Maintenance	Carry out normal operation and maintenance of gravity sewer collection system in city	Citywide	\$350,000/year	Neptune Beach	Ongoing
NB-4	SSO Investigations	Investigate SSOs as needed	No spills for June 1, 2013-May 31, 2014	\$1,000/year	Neptune Beach	Ongoing
NB-5	ARV Replacement	Replace broken ARVs	Citywide	Unknown	Neptune Beach	Completed
NB-6	Light Lane Lift Station Renovation	Upgrade and rehabilitate existing wet well and station piping	1 lift station	\$13,000	Neptune Beach	Completed
NB-7	Fletcher Lift Station	Upgrade and rehabilitate existing wet well and station piping	1 lift station	\$13,000	Neptune Beach	Completed
NB-8	New Tara Court Lift Station	Install new lift station	1 lift station	\$80,000	Developer	Completed
NB-9	New Emma Lane Lift Station	Install new lift station	1 lift station	\$80,000	Developer	Completed
NB-10	Bay Street Lift Station Renovation	Upgrade and rehabilitate existing wet well and station piping	1 lift station	\$13,000	Neptune Beach	Completed
NB-11	Florida Lift Station Renovation	Upgrade and rehabilitate existing pumps	1 lift station	\$11,000	Neptune Beach	Completed
NB-12	Bal Harbor Lift Station Renovation	Upgrade and rehabilitate existing wet well and station piping	1 lift station	\$13,000	Neptune Beach	Completed
NB-13	5 th Street Lift Station renovation	Upgrade and rehabilitate existing station piping	1 lift station	\$8,000	Neptune Beach	Completed
NB-14	Oceanwood Lift Station Renovation	Upgrade and rehabilitate existing station piping	1 lift station	\$8,000	Neptune Beach	Completed
NB-15	Oceanwood Lift Station Renovation	Upgrade and rehabilitate existing wet well	1 lift station	\$5,000	Neptune Beach	Completed
NB-16	Summer Sands Lift Station renovation	Upgrade and rehabilitate existing wet well and station piping	1 lift station	\$13,000	Neptune Beach	Completed
NB-17	Penman Terrace Lift Station renovation	Upgrade and rehabilitate existing station piping	1 lift station	\$8,000	Neptune Beach	Completed
NB-18	Penman Terrace Lift Station renovation	Upgrade and rehabilitate existing wet well	1 lift station	\$5,000	Neptune Beach	Completed
NB-19	Leeward Landing Lift Station Renovation	Upgrade and rehabilitate existing pumps and station piping	1 lift station	\$10,000	Neptune Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
NB-20	1 st Street Lift Station Renovation	Upgrade and rehabilitate existing station valves	1 lift station	\$3,500	Neptune Beach	Completed
NB-21	Daily Inspection of Lift Stations	Visually inspect lift station	13 lift stations; 4,556 inspections for June 1, 2013–May 31, 2014	\$65,000/year	Neptune Beach	Ongoing
NB-22	Pipe Burst Existing Sewer Lines East of 3 rd Street	Replace existing gravity sewer lines east of 3 rd Street by means of pipe bursting, and spray manhole liners on existing manholes in work area to reduce I&I	5 miles gravity sewer mains, 85 manholes, associated service taps	\$3,000,000	Department Revolving Fund Loan	Completed
NB-23	Rehabilitation of Manhole #57 on Hamlet Court	Rehabilitate existing manhole to reduce I&I	1 manhole	\$4,500	Neptune Beach	Completed
NB-24	Rehabilitation of Manhole #52 on Hamlet Court	Rehabilitate existing manhole to reduce I&I	1 manhole	\$4,500	Neptune Beach	Completed
NB-25	Rehabilitation of Manhole #119 on Penman Road	Rehabilitate existing manhole to reduce I&I	1 manhole	\$4,500	Neptune Beach	Completed
NB-26	Rehabilitation of Manhole #85 on 3 rd Street and Davis Boulevard	Rehabilitate existing manhole to fix sagging/dropping manhole	1 manhole	\$4,500	Neptune Beach	Completed
NB-27	Rehabilitation of Manhole #23 on 1 st Street at South Street	Rehabilitate existing manhole to reduce I&I	1 manhole	\$4,500	Neptune Beach	Completed
NB-28	Create GIS Mapping System for City Lift Station Inventory	Put together GIS mapping system and collect data for city's sanitary sewer lift station facilities	Citywide	\$2,000	Neptune Beach	Completed
NB-29	Create GIS mapping system for city gravity sanitary sewer inventory	Put together GIS mapping system and collect data for city's gravity sanitary sewer facilities	Citywide	\$5,000	Neptune Beach	Completed
NB-30	Create GIS Mapping System of Private Lift Station Inventory	Put together GIS mapping system and collect data for private lift station facilities in city	Citywide	\$2,500	Neptune Beach	Completed
NB-31	FOG Program	Routinely inspect grease traps and downstream sanitary sewer primarily at restaurant locations in city	32 inspections of restaurants in city for June 1, 2013-May 31, 2014	\$5,000/year	Neptune Beach	Ongoing
NB-32	Stormwater System Ditch and Canal Maintenance	Continually inspect and maintain city's ditches; routinely inspect, mow, pick up litter, and repair as needed	84.5 miles inspected, 21.24 miles of maintenance for June 1, 2013–May 31, 2014	\$90,000	Neptune Beach	Ongoing
NB-33	Stormwater System Pond Maintenance	Continually inspect and maintain city's 4 ponds; routinely inspect, mow, pick up litter, and repair as needed	43 inspections, 10 maintenance activities for June 1, 2013–May 31, 2014	\$2,500/year	Neptune Beach	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
NB-34	Stormwater Education and Outreach Efforts	Use of city's newsletter for public education and outreach	3,300 newsletters mailed out during June 1, 2013–May 31, 2014	\$1,000/year	Neptune Beach	Ongoing
NB-35	Pet Waste Management/Ordinance	Sec. 6-30. Defecation disposal. It shall be a violation for any owner of a dog to allow such dog to defecate on any property in the city other than the owner's private property without immediately removing such defecation with some sort of material, utensil or suitable container and depositing the defecation in a trash container. When walking a dog on any property in the city, other than the owner's property, the owner of that dog shall carry some sort of material, utensil or suitable container with which to depose of the defecation. The owner in violation of this chapter shall pay a civil penalty to the department of public safety as set forth in section 6-5. (Ord. No. 1998-01, § 1, 4-6-98; Ord. No. 2005-09, § 5, 5-2-05)	Citywide	\$5,000/year	Neptune Beach	Ongoing
NB-36	Street sweeping	Sweep roads with curb and gutter inside city limits	296.1 miles swept, 584 cubic yards of material collected for June 1, 2013–May 31, 2014	\$35,000/year	Neptune Beach	Ongoing
NB-37	Public Works Employee Training	Conduct annual training covering topics such as stormwater, illicit discharges, and Stormwater Pollution Prevention Plan	18 people trained on March 5, 2014	Unknown	Neptune Beach	Ongoing
NB-38	Testing and Sampling	Increase water sampling of Hopkins Creek	COJ	Unknown	Neptune Beach	Ongoing
NB-39	Stormwater Pollution Prevention Plan	Inspect Public Works facility quarterly and annually	3 inspections for June 1, 2013–May 31, 2014	\$5,000	Neptune Beach	Ongoing
NB-41	Organize a Walk the WBID for Hopkins Creek	Organize and participate in Walk the WBID for Hopkins Creek watershed	Walk the WBID	\$6,000	Neptune Beach	Completed
NB-42	Create GIS Mapping System for City Stormwater Related Inventory	Put together GIS mapping system and collect data for city's stormwater facilities; completion in 2010	Citywide	\$5,000	Neptune Beach	Completed
NB-43	Right-of-Way Maintenance and Litter Collection	Routinely mow, maintain, and pick up litter in rights-of-way	1,638 cubic yards of material removed for June 1, 2013–May 31, 2014	\$65,000/year	Neptune Beach	Ongoing
NB-44	Gravity Sanitary Sewer Point Repair Behind Fletcher High School	Repair offset 8" gravity sanitary sewer line behind Fletcher High School to facilitate lining the main. The line was near an adjacent ditch.	15 LF of pipe replaced	\$15,907	Neptune Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
NB-45	Gravity Sanitary Sewer Line Rehabilitation Behind Fletcher High School	Lined the 8" gravity sewer main behind Fletcher High School adjacent to a ditch with CIPP.	407 LF	\$14,320	Neptune Beach	Completed
NB-46	Gravity Sanitary Sewer Line Rehabilitation in Bal Harbour Subdivision	Lined a portion of the 8" gravity main in Bal Harbour subdivision.	890 LF	\$24,920	Neptune Beach	Completed
NB-47	Storm Sewer Rehabilitation in Driftwood Subdivision	Lined a portion of storm sewer in the Driftwood Subdivision that was found to have offset joints with CIPP.	41 LF of 36" and 305 LF of 24"	\$36,916.20	Neptune Beach	Completed
NB-48	Storm Sewer Repair on 5 th Street Across from Fletcher High School	Replace 30 linear feet of existing storm sewer that crossed 5 th Street discharging into major conveyance ditch.	30 LF	\$1,059	Neptune Beach	Completed
NB-49	Culvert Replacement on South Street	30 linear feet of culvert replacement on South Street.	30 LF	\$702	Neptune Beach	Completed
NB-50	Sanitary Sewer Rehabilitation on Forest Avenue	Rebuild a sanitary sewer manhole adjacent to Hopkins Creek.	1 manhole	\$13,205	Neptune Beach	Completed
NB-51	Bal Harbour Sanitary Sewer Improvements	Approximately 5,000 linear feet of sewer rehabilitation and replacement in the Bal Harbour neighborhood.	5,000 LF	\$1,000,000	Neptune Beach	2014–15; 1,412 linear feet completed

SECTION 11: CORMORANT BRANCH (WBID 2381)

11.1 JEA ACTIVITIES IN THE CORMORANT BRANCH WATERSHED

During the last year, JEA replaced sewer collection pipes through the process called “pipe bursting,” replacing 0.31% of the pipes, relined two manholes, installed one ARV, repaired two lift stations, and cleaned 2.97% of the lines. JEA also inspected 15 manholes as part of the Pop-Top Program. JEA’s activities in the Cormorant Branch watershed are shown in **Table 36**.

TABLE 36: JEA ACTIVITIES IN THE CORMORANT BRANCH WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-114	Pipe Bursting– Increase Carrying Capacity	Replace failing/leaking infrastructure	1,524 feet	Not applicable	JEA	Ongoing
JEA-115	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	2 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-216	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	1 ARV installed	Not applicable	JEA	Ongoing
JEA-116	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	2 stations (Livingston Estates, Beth Shalom)	Unknown	JEA	Completed – Not in WBID
JEA-117	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-118	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-119	Inspect Force Main Discharge Manholes, Repair/ Rehabilitate as Necessary	Inspect force main discharge manholes, repair/ rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-222	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	2 projects in 2014	Not applicable	JEA	Ongoing
JEA-120	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-121	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	No effort in 2014	Not applicable	JEA	Ongoing
JEA-122	Pipe Cleaning	Clean existing pipes to avoid blockages	14,754 feet of non-HDPE pipe in 2014	Not applicable	JEA	Ongoing
JEA-123	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-124	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-125	Pop-Top Program	Pop-Top Program	15 manholes inspected in 2014	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-126	Non-Destructive Testing Program/ Pipe Integrity Testing	Non-Destructive Testing Program/ Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

11.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE CORMORANT BRANCH WATERSHED

In 2014, FDOH issued two repair and three abandonment permits. FDOH also conducted five plan reviews and site evaluations and performed three complaint investigations. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities FDOH conducts in the Cormorant Branch watershed are shown in **Table 37**.

TABLE 37: FDOH IN DUVAL COUNTY ACTIVITIES IN THE CORMORANT BRANCH WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-57	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 2 repair and 3 abandonment permits issued	\$2,500	FDOH	Ongoing
FDOH-58	SWIM Project	Implement broad-ranging septic tank ordinance	Approximately 50.40% of Julington Hills Septic Tank Failure Area is located in WBID	Not applicable	FDOH	Ongoing
FDOH-59	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-60	Application/ Plan Review/ Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 5 plan reviews and site evaluations performed	\$1,000	FDOH	Ongoing
FDOH-61	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-62	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	3 complaint investigations performed	\$450	FDOH	Ongoing
FDOH-110	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	Approximately 473 inspections and 53 re-inspections performed in WBID	\$78,900	FDOH/ department/EPA Section 319 Nonpoint Source Management Program Implementation Grant	Completed

11.3 COJ ACTIVITIES IN THE CORMORANT BRANCH WATERSHED

11.3.1 COMPLETED COJ PROJECTS

COJ completed a storm sewer project at 3078 Purdom Drive that will help to reduce fecal coliform loading to the creek from this area.

11.3.2 ONGOING COJ PROGRAMS AND ACTIVITIES

Over the last year, COJ had 17 work orders for ditch and creek regrading, one for a lake or pond problem, 24 for repair/clearing of structures, one for a sewer that drains into a yard or ditch, and one for a sewer overflow. COJ also proactively inspected 2,156 feet of outfall ditches, inspected two private lift stations, and collected 36 water quality samples as part of the BMAP monitoring plan. In addition, COJ connected one septic tank to the sewer system in the watershed but outside a failure area. COJ's efforts in the Cormorant Branch watershed are shown in **Table 38**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 38: COJ ACTIVITIES IN THE CORMORANT BRANCH WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-335	Regional Stormwater Facility – MSMP	2-acre facility + 2-5 foot corrugated metal pipe + bank	Unknown	\$6,700,000	COJ	Planned
COJ-174	Lorretto Road (State Road 13 to Old St. Augustine Road) (Main Stem COJ-16)	Construct wet detention pond	55 acres	Unknown	COJ	Completed
COJ-390	3078 Purdom Drive	Storm sewer	Storm sewer	\$3,511	COJ	Completed
COJ-175	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	17	\$1,467	COJ	Ongoing
COJ-176	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	1	Unknown	COJ	Ongoing
COJ-177	Structure Blocked/Repair/ General Flooding	All maintenance activities presented were completed in response to CARE requests.	24	\$3,953	COJ	Ongoing
COJ-417	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	2,156 feet	\$4,635	COJ	Ongoing
COJ-178	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-179	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-391	Sewer Drains into Yard/Ditch	CARE initiated inspection	1	\$379	COJ	Ongoing
COJ-180	Sewer Overflow	CARE initiated inspection	1	\$379	COJ	Ongoing
COJ-181	Private Lift Station Inspection	10 private lift stations in WBID	2	\$758	COJ	Ongoing
COJ-182	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-183	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report 3740 Burnett Park Road	1 station	Unknown	COJ	Completed – in WBID
COJ-184	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report - 12015 San Joe Boulevard	1 station	Unknown	COJ	Completed
COJ-185	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	0	\$0	COJ	Ongoing
COJ-186	PIC Program	Follow up on outstanding PICs; determined to be not illicit	1	\$600	COJ	Completed
COJ-187	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling; 1 station in WBID	0 (included in COJ-355)	\$0	COJ	Ongoing
COJ-355	BMAP Monitoring	BMAP monitoring for this WBID was added at end of 2011 as other sites were dropped from BMAP I WBIDs, 3 sites monthly	36	\$6,372	COJ	Ongoing
COJ-336	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted, in attempt to identify sources.	0	\$0	COJ	Ongoing
COJ-188	Julington Hills Failure Area– Septic Tank Phase-Out	Phase out septic tanks in failure areas	303 tanks, 0 connected	Unknown	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-189	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	136 tanks, 1 connected	Unknown	COJ	Ongoing
COJ-190	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-191	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

11.4 FDOT ACTIVITIES IN THE CORMORANT BRANCH WATERSHED

FDOT collected 211 pounds of debris from street sweeping four miles of roadways. The Adopt-A-Highway Program collected 67 pounds of trash from four miles of roadways. FDOT helps to fund one monitoring station in the Cormorant Branch watershed that is sampled quarterly as part of the MS4 routine monitoring program. **Table 39** lists FDOT's activities in the Cormorant Branch watershed.

TABLE 39: FDOT ACTIVITIES IN THE CORMORANT BRANCH WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-62	PIC Program	Search for illicit connections	Effort is continuous in this WBID; none identified	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-124	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connections/discharge found this reporting period	Included in FDOT-62	FDOT/COJ	Ongoing
FDOT-63	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	4 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-64	Stormwater Management Systems	Construct pond as part of State Road 13 widening	27 acres, wet ponds	Not applicable	FDOT	Completed
FDOT-65	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-66	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	67 pounds of trash collected, trash collected along 4-mile stretch of road	Unavailable	Not applicable	Ongoing
FDOT-67	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 2 miles of roadways and associated stormwater conveyance systems currently being maintained; approximately 4 miles of roadways swept with 211 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-114	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0 re-samplings performed	Included in FDOT-63	FDOT/COJ	Ongoing
FDOT-125	BMAP Sampling	Routine BMAP II monitoring began October 2011	32 BMAP samplings performed	Included in FDOT-63	FDOT/COJ	Ongoing

SECTION 12: WILLS BRANCH (WBID 2282)

12.1 JEA ACTIVITIES IN THE WILLS BRANCH WATERSHED

During the last year, JEA replaced sewer collection pipes through the process called “pipe bursting,” replacing 0.12% of the lines, relined two manholes, inspected 12 ARVs, repaired four pump stations, televised 0.44% of the pipes, and cleaned 5.14% of the lines. It also inspected 59 manholes as part of the Pop-Top Program. JEA’s activities in the Wills Branch watershed are shown in **Table 40**.

TABLE 40: JEA ACTIVITIES IN THE WILLS BRANCH WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-127	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	514 feet	Not applicable	JEA	Ongoing
JEA-204	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-217	CIPP–Install New Inner Lining	Rehabilitate failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-128	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	2 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-129	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	12 ARVs inspected in 2014	Not applicable	JEA	Ongoing
JEA-130	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	1 station (Racetrack Gas on Normandy Boulevard)	Unknown	JEA	Completed – All in WBID
JEA-131	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-132	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-133	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/ rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-205	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	4 projects in 2014	\$142,029	JEA	Ongoing
JEA-134	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-135	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	1,897 feet of pipe in 2014	Not applicable	JEA	Ongoing
JEA-136	Pipe Cleaning	Clean existing pipes to avoid blockages	1,501 feet of HDPE pipe and 20,502 feet of non-HDPE in 2014	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-137	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-138	Manhole Monitoring	Manhole Monitoring	3 monitors in watershed	Not applicable	JEA	Ongoing
JEA-139	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-140	Pop-Top Program	Pop-Top Program	59 manhole inspections in 2014	Not applicable	JEA	Ongoing
JEA-141	Non-Destructive Testing Program/ Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

12.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE WILLS BRANCH WATERSHED

In 2014, FDOH issued one new construction, one abandonment, one existing system, and 13 annual operating permits. It also conducted three plan reviews and site evaluations and performed one complaint investigation. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities FDOH conducts in the Wills Branch watershed are shown in **Table 41**.

TABLE 41: FDOH IN DUVAL COUNTY ACTIVITIES IN THE WILLS BRANCH WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-63	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 1 new construction, 1 abandonment, 1 existing system permit issued	\$1,500	FDOH	Ongoing
FDOH-64	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	13 annual operating permits issued for IMZ/commercial properties	\$4,550	FDOH	Ongoing
FDOH-65	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-66	Application/Plan Review/Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 3 plan reviews and site evaluations	\$600	FDOH	Ongoing
FDOH-67	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-68	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations.	1 complaint investigation performed in WBID	\$150	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-69	Intensive Inspection Program	Carry out intensive geospecific inspections in selected BMAP WBIDs based on repair permit applications, water quality information, and site conditions	Approximately 381 inspections performed in WBID	\$14,100	FDOH/ department/EPA Section 319 Nonpoint Source Management Program Implementation grant	Completed

12.3 COJ ACTIVITIES IN THE WILLS BRANCH WATERSHED

During the reporting period, COJ had one work order for a sewer overflow, and this inspection was initiated through information from the CARE database. It also proactively maintained 8,688 feet of outfall ditches, inspected one private lift station, and collected eight routine water quality samples. COJ's efforts in the Wills Branch watershed are shown in **Table 42**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 42: COJ ACTIVITIES IN THE WILLS BRANCH WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-337	1591 Lane Ave South	Drainage improvement	Unknown	\$67,924	COJ	Completed
COJ-356	1121 Cahoon Road	Drainage improvement	Unknown	\$251,529	COJ	Completed
COJ-357	Cahoon North of Homestead Oaks	Drainage improvement	Unknown	\$22,232	COJ	Completed
COJ-358	Cahoon and Burma	Drainage improvement	Unknown	\$64,267	COJ	Completed
COJ-359	Cahoon (Burma North of Homestead Oaks Drive)	Culvert improvement	Unknown	\$1,303	COJ	Completed
COJ-360	Golfview West	Drainage improvement	Unknown	\$24,832	COJ	Completed
COJ-361	Golfview West	Drainage improvement	Unknown	\$61,174	COJ	Completed
COJ-392	Hanson at Londonberry	Drain line	Drain line	\$78,649	COJ	Construction
COJ-192	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-193	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-194	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-362	Hazardous Contaminated Ditch	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-418	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	8,688 feet	\$18,679	COJ	Ongoing
COJ-195	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-196	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-197	Sewer Drains into Yard/Ditch	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-198	Sewer Overflow	CARE initiated inspection	1	\$379	COJ	Ongoing
COJ-199	Private Lift Station Inspection	19 private lift stations in WBID	1	\$379	COJ	Ongoing
COJ-200	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-201	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	2 stations (7885 Normandy Blvd., 7242 Normandy Blvd.)	Unknown	COJ	Completed – 7885 Normandy not in WBID, 7242 Normandy in WBID
COJ-202	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center: 1 closed	0	\$0	COJ	Ongoing
COJ-203	PIC Program	Follow up on outstanding PICs	4	\$1,600	COJ	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-204	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling; 2 stations in WBID	8	\$1,088	COJ	Ongoing
COJ-338	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted, in attempt to identify sources.	0	\$0	COJ	Ongoing
COJ-205	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	403 tanks, 2 connected	Unknown	COJ	Ongoing
COJ-206	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-207	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

12.4 FDOT ACTIVITIES IN THE WILLS BRANCH WATERSHED

FDOT collected 289 pounds of debris through street sweeping on four miles of roadways. The Adopt-A-Highway Program collected 32 pounds of trash from two miles of roadways. FDOT helps to fund the routine water quality monitoring stations in the Wills Branch watershed. **Table 43** lists FDOT's activities in the Wills Branch watershed.

TABLE 43: FDOT ACTIVITIES IN THE WILLS BRANCH WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-68	PIC Program	Search for illicit connections	Effort is continuous in this WBID; 1 PIC identified	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-126	PIC Program	Identify and remove illicit connections if found to be truly illicit	0 PICs found	Included in FDOT-68	FDOT/COJ	Ongoing
FDOT-69	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	8 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-70	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-71	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	32 pounds of trash collected, trash collection area is 2-mile stretch of road	Unavailable	Not applicable	Ongoing
FDOT-72	Stormwater Management Systems	Construct wet ponds at intersection of Interstate 295 and Normandy	21 acres, wet ponds	Not applicable	FDOT	Completed
FDOT-73	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 2 miles of roadways and associated stormwater conveyance systems currently maintained in this WBID; approximately 4 miles of roadways swept with 289 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-115	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	Included in FDOT-69	FDOT/COJ	Ongoing
FDOT-116	Stormwater Management Systems	Construct wet detention pond at intersection of Normandy Boulevard and I-295	9 acres, wet pond	Unknown	FDOT	Completed

SECTION 13: SHERMAN CREEK (WBID 2227)

13.1 FDOH IN DUVAL COUNTY ACTIVITIES IN THE SHERMAN CREEK WATERSHED

In 2014, FDOH issued one new construction and four annual operating permits. It also conducted one plan review and site evaluation and performed two complaint investigations. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities FDOH conducts in the Sherman Creek watershed are shown in **Table 44**.

TABLE 44: FDOH IN DUVAL COUNTY ACTIVITIES IN THE SHERMAN CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-70	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 1 new construction permit issued	\$500	FDOH	Ongoing
FDOH-71	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	4 annual operating permits issued for commercial properties	\$1,400	FDOH	Ongoing
FDOH-72	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-73	Application/Plan Review/Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	1 plan review and site evaluation performed	\$200	FDOH	Ongoing
FDOH-74	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-75	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	2 complaint investigations performed	\$300	FDOH	Ongoing
FDOH-111	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	Approximately 105 inspections and 8 re-inspections performed in WBID	\$11,300	FDOH/ department/EPA Section 319 Nonpoint Source Management Program Implementation Grant	Completed

13.2 COJ ACTIVITIES IN THE SHERMAN CREEK WATERSHED

During the reporting period, COJ had five work orders for ditch and creek regrading, eight for repair/clearing of structures, and one for an illicit water discharge. These inspections are initiated through information from the CARE database. COJ also inspected five private lift stations. In addition, COJ collected four routine water quality samples, two follow-up samples on high counts, and 60 BMAP-related samples, as outlined by the BMAP monitoring plan and approved revisions. COJ's efforts in the Sherman Creek watershed are shown in **Table 45**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 45: COJ ACTIVITIES IN THE SHERMAN CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-339	Regional Stormwater Facility – MSMP	5 acre facility + conveyance improvements	Unknown	\$1,800,000	COJ	Planned
COJ-340	Renault Drive/Apollo Drive	Drainage improvements	Unknown	\$62,972	COJ	Completed
COJ-363	Renault Drive/Apollo Drive Part 2	Drainage improvements	Unknown	\$13,789	COJ	Completed
COJ-208	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	5	\$356	COJ	Ongoing
COJ-209	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-210	Structure Blocked/Repair/ General Flooding	All maintenance activities presented were completed in response to CARE requests.	8	\$2,011	COJ	Ongoing
COJ-211	Illicit Water Discharge	CARE initiated inspection	1	\$379	COJ	Ongoing
COJ-212	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-213	Sewer Drains into Yard/Ditch	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-214	Sewer Overflow	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-215	Private Lift Station Inspection	14 private lift stations in WBID, 1 identified and inspected in 2014	5	\$1,895	COJ	Ongoing
COJ-216	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-217	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	7 stations	Unknown	COJ	Completed
COJ-218	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	0	\$0	COJ	Ongoing
COJ-219	PIC Program	Follow up on outstanding PICs; not illicit	1	\$750	COJ	Completed
COJ-220	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling; 3 stations in WBID	4 (some included in COJ-341)	\$544	COJ	Ongoing
COJ-221	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted	2	\$354	COJ	Ongoing
COJ-341	BMAP Monitoring	COJ EQD is responsible for 5 sites, 3 for Atlantic Beach (3 sampled monthly and 2 sampled quarterly); began 12/2010	60	\$10,620	COJ, Atlantic Beach	Ongoing
COJ-222	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	11 tanks, 11 connected	Unknown	COJ	Completed
COJ-223	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-224	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

13.3 FDOT ACTIVITIES IN THE SHERMAN CREEK WATERSHED

FDOT collected 995 pounds of debris from street sweeping eight miles of roadways. It helps to fund the three monitoring stations in the Sherman Creek watershed that are sampled quarterly as part of the MS4 routine monitoring program. In addition, FDOT helps to fund the five stations in the BMAP monitoring plan. **Table 46** lists FDOT’s activities in the Sherman Creek watershed.

TABLE 46: FDOT ACTIVITIES IN THE SHERMAN CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-74	PIC Program	Search for illicit connections	Effort is continuous in this WBID; none identified	Countywide - \$45,394	FDOT/ COJ	Ongoing
FDOT-127	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connections/ discharge found this reporting period	Included in FDOT-74	FDOT/ COJ	Ongoing
FDOT-75	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	4 routine water quality samplings	Countywide - \$197,794	FDOT/ COJ	Ongoing
FDOT-76	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	1 re-sampling was performed	Included in FDOT-75	FDOT/ COJ	Ongoing
FDOT-77	Stormwater Management Systems	Wonderwood Connector project—construct wet pond	58 acres, wet ponds	Not applicable	FDOT	Completed
FDOT-78	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-79	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 4 miles of roadways and associated stormwater conveyance systems currently being maintained; approximately 8 miles of roadways swept with 995 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-117	BMAP Sampling	Routine BMAP II monitoring began December 2010	60 BMAP samplings were performed	Included in FDOT-75	FDOT/ COJ	Ongoing
FDOT-118	Stormwater Management Systems	Construct wet detention pond at Wonderwood Drive	72 acres, wet pond	Unknown	FDOT	Completed

13.4 ATLANTIC BEACH ACTIVITIES IN THE SHERMAN CREEK WATERSHED

13.4.1 COMPLETED ATLANTIC BEACH PROJECTS

The city of Atlantic Beach completed sewer line upgrades using CIPP on Francis Avenue, Jordan Street, Lewis Street, Saturiba Drive, 15th Street, and 16th Street. The city rehabilitated manholes with Spectrashield on Francis Avenue, Jordan Street, Lewis Street, and Saturiba Drive, and using fiberglass liners on Sea Oats Drive (see **Figure 2**). In addition, the city completed the East Coast Drive stormwater improvements project, which included stormwater piping with catch basins, manholes, and curb inlets.



FIGURE 2: CITY OF ATLANTIC BEACH MANHOLE REHABILITATION

13.4.2 ONGOING ATLANTIC BEACH PROGRAMS AND ACTIVITIES

Over the last year, the city of Atlantic Beach completed 61,152 inspections of inlets/catch basins/grates, completed 79,698 maintenance actions for inlets/catch basins/grates, and collected 118,027.5 pounds of litter. The city of Atlantic Beach's activities in the Sherman Creek watershed are listed in **Table 47**.

TABLE 47: ATLANTIC BEACH ACTIVITIES IN THE SHERMAN CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-51	Septic Tank Inspections and Enforcement	When septic tanks fail, city code requires connection to sewer system if available	Ongoing	Unknown	Atlantic Beach	Ongoing
AB-52	Septic Tank Phase-Out	Septic-to-Sewer Resolution by City Commission requiring connection at various dates. Includes Septic Conversion Assistance Policy, passed by commission in May 2000. Provides city financing of septic-to-sewer conversions and contracting coordination and assistance. Project should be completed in December 2012.	4 conversions	\$16,000	Atlantic Beach/ homeowners	Completed
AB-53	Septic Tank Phase-Out	Carry out septic-to-sewer conversions through CDBG	4 conversions	\$4,900	CDBG	Completed
AB-54	Sewer Line Upgrades	Install new sewer system on Beach Avenue, Seminole Road, Ocean Grove, Dewees areas	4,794 LF sewer, 24 manholes, 155 connections	\$400,000	Atlantic Beach	Completed
AB-55	Sewer Line Upgrades	Replace sewer main in area of Pioneer Drive	234 LF	\$17,000	Atlantic Beach	Completed
AB-56	Sewer Line Upgrades	Slipline sewer on Sherry Drive; replace sewer in part of Salt Air subdivision	1,600 LF lined, 3,175 LF replaced	\$643,000	Atlantic Beach	Completed
AB-57	Sewer Line Upgrades	Repair, line, and rehabilitate sewer in Oak Harbor subdivision	17,200 LF	\$500,000	Atlantic Beach	Completed
AB-58	Sewer Line Upgrades	Repair sewer force main near Renault Drive and Mayport Road	640 LF	\$20,000	Atlantic Beach	Completed
AB-59	Sewer Line Upgrades	Install new sewer line on Church Road (now Dutton Island Road)	Unknown	Unknown	Atlantic Beach	Completed
AB-60	Sewer Line Upgrades	Repair effluent gravity outfall on Levy Road	5 point repairs	\$33,000	Atlantic Beach	Completed
AB-61	Sewer Line Upgrades	Replace sewer lines crossing Levy Road at Orchid, Rose, Violet, and Hibiscus	365 LF	\$28,000	Atlantic Beach	Completed
AB-62	Sewer Line Upgrades	Implement sewer extension on Dudley St.	450 LF	\$25,000	Atlantic Beach	Completed
AB-63	Sewer Line Upgrades	Line sewers near Lift Station A, Palm Avenue	1,400 LF	\$40,000	Atlantic Beach	Completed
AB-64	Sewer Line Upgrades	Replace sewer force main and sanitary sewer on Wonderwood Road	3,500 LF force main, 180 LF sewer main	\$604,609	Atlantic Beach	Completed
AB-65	Sewer Line Upgrades	Replace sewer main and manholes in Town Center–Ocean Boulevard from 1 st to 2 nd Street	234 LF sewer and 2 manholes	\$14,177	Atlantic Beach	Completed

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PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-66	Sewer Line Upgrades	Line sewer and replace services– Ahern Street through 10 th Street from Sherry Dr./Seminole Rd. to East Coast Drive	12,000 LF sewer lined, 220 services replaced	\$1,079,800	Atlantic Beach/ Hazard Mitigation Grant	Completed
AB-67	Sewer Line Upgrades	Repair effluent force main Sherman Creek crossing pilings	2 crossings	\$54,701	Atlantic Beach	Completed
AB-68	Sewer Line Upgrades	Install new force main from Lift Station B, 465 11 th Street to 1100 Sandpiper Lane	450 LF	\$120,685	Atlantic Beach	Completed
AB-69	Sewer Line Upgrades	Replace sewer main and manholes on 11 th Street and 12 th Street	2,345 LF sewer main and 11 manholes	\$368,425	Atlantic Beach	Completed
AB-70	Sewer Line Upgrades	Clean and inspect (using CCTV) sewer main in Selva Marina subdivision; repair sewer mains, 19 th Street and side streets	5,292 LF	\$70,000	Atlantic Beach	Completed
AB-71	Sewer Line Upgrades	Line sewer and replace services Seminole Road and 11 th Street to Lift Station B	2,965 LF sewer lining and 45 services replaced	\$105,630	Atlantic Beach	Completed
AB-72	Sewer Line Upgrades	Install new sewer line for Sawgrass Chapel Place-Mealy Lane, north of Dutton Island Road	736 LF sewer main	\$66,808	Atlantic Beach	Completed
AB-73	Sewer Line Upgrades	Install new sewer main and abandon old lift station at Shangri La Drive	614 LF	\$146,572	Atlantic Beach	Completed
AB-74	Sewer Line Upgrades	Line sewer main in Seaspray Subdivision	6,604 LF	\$239,997	Atlantic Beach	Completed
AB-75	Manhole Inspections and Rehabilitation	Carry out engineering analysis of failing manholes– Seminole Road area	30 manholes	\$2,500	Atlantic Beach	Completed
AB-76	Manhole Inspections and Rehabilitation	Line 5 manholes near Lift Station A– Palm Avenue	5 manholes	\$15,000	Atlantic Beach	Completed
AB-77	Manhole Inspections and Rehabilitation	Rehabilitate (Spectrashield) manholes on Sherry Drive from Atlantic Boulevard to Plaza Road	8 manholes	\$11,270	Atlantic Beach	Completed
AB-78	Manhole Inspections and Rehabilitation	Rehabilitate (Spectrashield) manholes from Ahern through 10 th St. and Sherry Drive to East Coast Drive	60 manholes	\$279,826	Atlantic Beach	Completed
AB-79	Manhole Inspections and Rehabilitation	Rehabilitate (Spectrashield) all manholes in Seaspray subdivision	28 manholes	\$25,597	Atlantic Beach	Completed
AB-80	Pump Station Inspections and Maintenance	Improve valves at Lift Stations A, B, and D (Palm Ave., 11 th Street, Selva Marina Boulevard)	3 lift stations	\$40,000	Atlantic Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-81	Pump Station Inspections and Maintenance	Rehabilitate wet well at lift station at Courtyards Apartments	1 lift station	\$19,690	Atlantic Beach	Completed
AB-82	Pump Station Inspections and Maintenance	Line wet well at West End lift station, 2567 West End Street,	1 lift station	\$18,900	Atlantic Beach	Completed
AB-83	Pump Station Inspections and Maintenance	Line wet well at Selva Norte Lift Station, 404 20 th Street	1 lift station	\$21,900	Atlantic Beach	Completed
AB-84	Pump Station Inspections and Maintenance	Construct new master lift station to wastewater treatment plant #1, 1100 Sandpiper Lane	1 lift station	\$676,500	Atlantic Beach	Completed
AB-85	Pump Station Inspections and Maintenance	Upgrade West End Lift Station– new pumps and electrical, 2567 West End Drive	1 lift station	\$47,000	Atlantic Beach	Completed
AB-86	Pump Station Inspections and Maintenance	Upgrade Lift Station H–2301 Mayport Road; new pumps and electrical	1 lift station	\$120,281	Atlantic Beach	Completed
AB-87	Pump Station Inspections and Maintenance	Upgrade Lift Station I–960 Park Street; new pumps and electrical	1 lift station	\$70,281	Atlantic Beach	Completed
AB-88	Pump Station Inspections and Maintenance	Replace emergency generator at Lift Station C, 65 Donner Road	1 lift station	\$24,000	Atlantic Beach	Completed
AB-89	Pump Station Inspections and Maintenance	Install SCADA system at all 19 lift stations in Sherman Creek watershed	19 lift stations	\$130,000	Atlantic Beach	Completed
AB-90	Pump Station Inspections and Maintenance	Replace emergency generator at Lift Station A, 460 Palm Avenue	1 lift station	\$27,161	Atlantic Beach	Completed
AB-91	Pump Station Inspections and Maintenance	Replace emergency generator at Lift Station B, 469 11 th Street	1 lift station	\$21,507	Atlantic Beach	Completed
AB-92	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	5 stations (2632 State Road A1A, 404 20 th Street, 1799 Selva Marina Drive, 425 11 th Street, 460 Palm Avenue)	\$2,960	Atlantic Beach	Completed
AB-93	Pump Station Inspections and Maintenance	Replace emergency generator at Mimosa Cove Lift Station, 1030 Mimosa Cove Court	1 lift station	\$32,000	Atlantic Beach	Completed
AB-94	SSO Investigations– Preventive	Clean and inspect (using CCTV) effluent gravity outfall line from wastewater treatment plant #1	2,000 LF	\$3,000	Atlantic Beach	Completed
AB-95	SSO Investigations– Preventive	Clean and inspect (using CCTV) sewer mains at State Road A1A and Wonderwood Road	2,000 LF	\$1,200	Atlantic Beach	Completed
AB-96	SSO Investigations– Preventive	Clean and inspect (using CCTV) sewer mains in core city from east of East Coast Drive to ocean, from Atlantic Boulevard to 16 th Street	39,600 LF	\$30,834	Atlantic Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-97	SSO Investigations– Preventive	Smoke test sewers in core city from Sherry Drive to East Coast Drive from Atlantic Boulevard to 12 th Street	12,000 LF	Unknown	Atlantic Beach	Completed
AB-98	SSO Investigations– Preventive	Carry out I&I analysis of entire collection system; prepare GIS system; determine global positioning system locations of all manholes; analyze lift station needs; CIPP recommended	Entire system	\$60,000	Atlantic Beach	Completed
AB-99	SSO Investigations– Preventive	Clean and inspect (using CCTV) sewer main on Selva Marina Drive and side streets	7,000 LF	\$9,000	Atlantic Beach	Completed
AB-100	SSO Investigations– Preventive	Implement root removal and tuberculation removal on Seminole Road	700 LF	\$2,400	Atlantic Beach	Completed
AB-101	SSO Investigations– Preventive	Clean and inspect (using CCTV) sewer main on Seminole Road, Selva Linkside, and Selva Lakes Subdivisions	16,500 LF	\$27,094	Atlantic Beach	Completed
AB-102	SSO Investigations– Preventive	Clean and inspect (using CCTV) sewer main at Mayport Road crossings	4,930 LF	\$6,656	Atlantic Beach	Completed
AB-103	SSO Investigations– Preventive	Sewer Master Plan Update– Analyze entire sewer system for prioritizing capital improvement program, including review of I&I analysis	Entire system	\$58,100	Atlantic Beach	Completed
AB-104	SSO Investigations– Preventive	Implement FOG Program to monitor grease trap maintenance at restaurants	40 food service establishments	Unknown	Atlantic Beach	Ongoing
AB-105	1999 Stormwater Improvements Project	Implement flood control capital project and stormwater water quality BMPs on Pine Street, PW Yard, and Seminole	1990.5 LF of RCP various sizes; 13 inlets; 2 inlet modifications; 2 mitered end sections, 2 dry retention areas	\$414,711	Atlantic Beach	Completed
AB-106	Core City Improvements Project	Implement flood control capital project and stormwater water quality BMPs– area bounded by Sherry Drive and East Coast Drive, 1 st Street and 12 th Street	216 acres: 14,753 LF of piping; 21 manholes; 69 inlets; 3 endwalls; 3 second-generation baffle boxes; 1 weir	\$4,784,008	Atlantic Beach/ department/ EPA	Completed
AB-107	Core City Improvements Project	Carry out water sampling and public education	Monthly grab and continuous event monitoring as required by Section 319 grant; results submitted to the department with final report; public education	\$81,370	Atlantic Beach/ department/ EPA	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-108	Levy Rd. Improvements Project	Implement flood control capital project–Levy Road between Mayport Road and Orchid Street	236 LF of pipe; 6 mitered end sections	\$300,284	Atlantic Beach	Completed
AB-109	Sherry Drive Reconstruction Project	Implement flood control capital project–Sherry Drive between Atlantic Blvd. and Seminole Road	3326 LF of pipe; 13 manholes; 24 curb inlets; 9 ditch bottom inlets; 13 junction boxes	\$1,371,530	Atlantic Beach	Completed
AB-110	Flood control capital projects	Implement flood control capital project–Deweese, Coquina, Shell, and Coral Drainage and Paving Project	1080 LF of pipe; 10 inlets; 2 manhole modifications; 1 new manhole with converted drain top	\$120,716	Atlantic Beach	Completed
AB-111	Church Road Extension (now Dutton Island Road)	Implement flood control capital project–between George Street and Mealy Street	2 Type E inlets; 2 end walls; 65 LF of 48-inch RCP; 30 LF of 15-inch HDPE	\$152,180	Atlantic Beach	Completed
AB-112	Public Education Through Contract with Felicia M. Boyd	Implement stormwater water quality BMPs; carry out public education for stormwater and sewer	4,021 participants	\$5,000 per year	Atlantic Beach	Ongoing
AB-113	Stormwater System Ditch and Canal Inspections	Visually inspect stormwater systems weekly, and take corrective action as needed; mow, use weedeater, and pick up litter weekly during growing season, and as needed during colder months	1,133,404 LF	Unknown	Atlantic Beach	Ongoing
AB-114	Stormwater System Ditch and Canal Maintenance	Routinely clean and maintain ditches as required by MS4 permit	797,026 LF	Unknown	Atlantic Beach	Ongoing
AB-115	Stormwater Treatment Ponds Inspections	Routinely inspect ponds as required by MS4 permit	141 pond inspections	Unknown	Atlantic Beach	Ongoing
AB-116	Stormwater Treatment Ponds Cleaning and Maintenance	Routinely maintain ponds as required by MS4 permit	119 pond maintenance events	Unknown	Atlantic Beach	Ongoing
AB-117	Stormwater Treatment Ponds, Ditch and Canal Aquatic Weed Control	Weed control by Bluewater Environmental	Not applicable	Annual budget–\$36,000	Atlantic Beach	Ongoing
AB-118	Stormwater Control Structure Inspections	Carry out routine control structure inspections required by MS4 permit	141 structures	Unknown	Atlantic Beach	Ongoing
AB-119	Stormwater Control Structure Cleaning and Maintenance	Do only when inspection shows additional effort required; carry out routine cleaning and maintenance as required by MS4 permit	107 structures	Unknown	Atlantic Beach	Ongoing
AB-120	Stormwater Inlets/Catch Basins/Grates Inspected	Routinely inspect as required by MS4 permit	61,152 inspections of inlets/catch basins/grates	Unknown	Atlantic Beach	Ongoing
AB-121	Stormwater Inlets/Catch Basins/Grates Maintained	Maintain as required by MS4 permit	79,968 maintenance actions inlets/ catch basins/grates	Unknown	Atlantic Beach	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-122	Stormwater Pipe Inspection and Maintenance	Carry out stormwater pipe cleaning routinely and in response to complaints, as required by MS4 permit	3,674 LF	Unknown	Atlantic Beach	Ongoing
AB-123	Stormwater Pipe Maintenance (Repair/Replacement)	Repair or replace stormwater pipe	20 LF	Unknown	Atlantic Beach	Ongoing
AB-124	Total Miles of Right-of-Way Maintained	Maintain right-of way	39.23 miles	Unknown	Atlantic Beach	Ongoing
AB-125	Collect Litter	Collect litter	118,027.5 pounds/year	Unknown	Atlantic Beach	Ongoing
AB-126	George and Dudley Drainage Improvements	Implement stormwater water quality BMPs–Dudley Street between Mayport Road and George Street	777 LF of HDPE pipe; 5 Type C inlets; 1 Type C baffle inlet; 3 dry retention areas	\$97,930	CDBG	Completed
AB-127	County Club Lane Storm Pipe lining	Implement flood control capital project–between Johansen Park and Selva Lagoon; no septic tanks in project area	560 LF PVC line 24-inch RCP; 1 curb inlet; 1 headwall	\$83,574	Atlantic Beach	Completed
AB-128	Ocean and 13 th Street Drainage Project	Implement flood control capital project	766 LF of 18-inch RCP; 9 ditch bottom Inlet-C; 1 curb inlet; 20 LF concrete flume	\$138,734	Atlantic Beach	Completed
AB-129	Seminole Ditch Headwall	Implement flood control capital project–800 block of Seminole Road	Concrete headwall installation	\$12,974	Atlantic Beach	Completed
AB-130	Selva Tierra Ditch Improvements	Implement flood control capital project–north of Saturiba Drive, between Selva Grande and Tierra Verde	Extend 24-inch corrugated metal pipe, 12-inch ADS, and 12-inch PVC pipes going into a new ditch bottom inlet	\$25,953	Atlantic Beach	Completed
AB-131	Ocean Blvd. 14 th –16 th Street Drainage Improvements	Flood Implement flood control capital projects and stormwater water quality BMPs	974 LF of RPC; 1 concrete endwall; 9 inlets; 1 manhole; 1 overflow structure	\$271,693	Atlantic Beach	Completed
AB-132	Orangeburg Pipe Replacement Program	Replace obsolete/failing Orangeburg (fiber) storm sewer pipe; annual funding (\$15,000/year); completion 9/2016	~2,915 LF of Orangeburg remaining in city system; replaced 20 LF	\$75,000	Atlantic Beach	Construction
AB-133	Pet Feces Control	Install, maintain, and stock Dogi-Pot stations throughout city	More than 30 installed to date	\$5,000	Atlantic Beach	Ongoing
AB-135	Sewer Line Upgrades	Line sewer mains in Salt Air Subdivision with cured-in-place pipe	9,008 LF of sewer main	\$335,730	Atlantic Beach & Division of Emergency Mgt.	Completed
AB-136	Sewer Line Upgrades	Line sewer mains in Selva Marina subdivision with cured-in-place pipe	7,700 LF of sewer main	\$264,936	Atlantic Beach	Completed
AB-137	Sewer Line Upgrades	Replace sewer main near Selva Marina Lift Station 1799 Selva Marina Dr.	100 LF of Sewer main	\$27,400	Atlantic Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-138	Manhole Inspections & Rehabilitation	Rehabilitate manholes in Salt Air Subdivision	66 manholes	\$44,952	Atlantic Beach & Division of Emergency Mgt.	Completed
AB-139	Manhole Inspections & Rehabilitation	Rehabilitate manholes in Selva Marina subdivision	31 manholes	\$21,790	Atlantic Beach	Completed
AB-140	Pump Station Inspections & Maintenance	Mimosa Cove Lift Station Upgrades (1030 Mimosa Cove Ct.) – new pumps, motors, electrical, sitework/grading, building repairs	1 lift station	\$83,023	Atlantic Beach	Completed
AB-141	Pump Station Inspections & Maintenance	Electrical Upgrades at 3 Lift Stations (404 20 th St., 995 Gavagan and 914 Schooners Bay)	3 lift stations	\$24,743	Atlantic Beach	Completed
AB-147	Sewer Line Upgrades	Rehabilitate deteriorated cast iron sanitary sewer mains in Johns Creek, Mimosa Cove, Cove Landing, Aspen Ridge, Selva Marina Drive, and Seminole Road using CIPP	1,505 LF	\$61,700	Atlantic Beach	Completed
AB-148	Sewer Line Upgrades	Rehabilitate vitrified clay sewer mains on East Coast Drive from Plaza Road to 10 th Street	406 LF	\$14,530	Atlantic Beach	Completed
AB-149	Sewer Line Upgrades	Replace cast iron sewer main in easement south of Willow Cove Court East	150 LF	\$86,829	Atlantic Beach	Completed
AB-150	Manhole Inspections and Rehabilitation	Rehabilitate manholes on East Coast Drive with Spectrashield	7 manholes	\$3,300	Atlantic Beach	Completed
AB-151	SSO Investigations – Preventive	Clean and televise sewer mains on Dudley Road and Dutton Island Road	600 LF	\$1,300	Atlantic Beach	Completed
AB-152	SSO Investigations – Preventive	Clean and televise sewer main near Mimosa Cove lift station	1200 LF	\$2,500	Atlantic Beach	Completed
AB-153	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on East Coast Drive, Ocean Boulevard, and Beach Avenue between 12 th and 15 th Streets using CIPP	Approximately 3,070 LF of 8” and 10” sewer main	\$91,559	Atlantic Beach	Completed
AB-154	Manhole Inspections and Rehabilitation	Rehabilitate manholes on East Coast Drive, Ocean Boulevard, and Beach Avenue between 12 th and 15 th Streets using Spectrashield	7 manholes	\$5,460	Atlantic Beach	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
AB-155	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on Francis Avenue, Jordan Street, and Lewis Street using CIPP	Approximately 3,190 LF of 8” and 10” sewer main	\$133,238	75% Hazard Mitigation Grant Program; 25% Atlantic Beach	Completed
AB-156	Manhole Inspections and Rehabilitation	Rehabilitate manholes on Francis Avenue, Jordan Street, and Lewis Street using Spectrashield	10 manholes	\$7,000	75% Hazard Mitigation Grant Program; 25% Atlantic Beach	Completed
AB-157	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on Saturiba Drive, 15 th Street, and 16 th Street using CIPP	Approximately 3,543 LF of 8” and 12” sewer main	\$133,315	Atlantic Beach	Completed
AB-158	Manhole Inspections and Rehabilitation	Rehabilitate manholes on Saturiba Drive with fiberglass liners, and on Sea Oats with Spectrashield	17 manholes	\$52,212	Atlantic Beach	Completed
AB-159	East Coast Drive Stormwater Improvements Project	Construction of stormwater piping with catch basins, manholes and curb inlets, sanitary sewer service line encasement.	467 LF of 18” reinforced concrete pipe and 171 LF of 12x18 elliptical reinforced concrete pipe; 7 inlets	\$209,000	Atlantic Beach	Completed

13.5 NS MAYPORT ACTIVITIES IN THE SHERMAN CREEK WATERSHED

NS Mayport inspected, cleaned, and conducted preventive maintenance for the wastewater collection system on a scheduled basis. There were no SSOs in NS Mayport's portion of the Sherman Creek watershed during the year. IDDE inspections were conducted throughout the year on a scheduled basis based on a standard operating procedure developed during 2014. During the reporting period, 4,680 gallons of cooking oil and grease were collected and recycled through a cooperative agreement with St. Johns County.

Street sweeping of the airfield was restarted in 2014. Runways, taxiways, and flight line areas are swept at least weekly. Stormwater-related articles published in NS Mayport's newspaper, *The Mirror*, included subjects such as disposal of household FOG, lawn maintenance practices, and cigarette butt disposal. The lessee responsible for management of Navy housing areas instituted an electronic newsletter for residents. Stormwater-related articles were also placed in that newsletter on topics such as household hazardous waste disposal, cigarette butt disposal, feral cats, floatable trash and debris, and general public education on the fact that anything disposed into streets or inlets will enter the stormwater system.

Pet waste collection stations are maintained at 21 locations throughout Navy family housing and recreation areas frequented by dog owners. The pet stations have been well accepted by pet owners and receive extensive use. Markers or stencils that state "No Dumping - Drains to River" were placed on 35 additional storm drains in 2014. To date, 162 markers have been installed on stormwater inlets throughout NS Mayport.

Table 48 lists the NS Mayport activities in the Sherman Creek watershed.

TABLE 48: NS MAYPORT ACTIVITIES IN THE SHERMAN CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
NSM-1	Septic Tank Removal at Building 375	Close septic tank at Building 375 and connect facility to sanitary sewer	1 tank	\$12,000	Navy	Completed
NSM-2	Repair Housing Sewer Mains	Reline housing area sewer main pipes with CIPP	4,562 LF	\$228,100	Navy	Completed
NSM-3	Repair Housing Laterals	Reline housing unit laterals with CIPP	192 connections; 9,475 LF	\$480,000	Navy	Completed
NSM-4	Manhole Rehabilitation	Rehabilitate manhole with cementitious coating	147 manholes	\$86,490	Navy	Completed

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
NSM-5	Telemetry System	Install telemetry/monitoring system at pump stations	4 pump stations	Unknown	Navy	Completed
NSM-6	Collection System Spill Prevention Program	Clean and inspect (using video) sewage collection system	Entire sewage collection system	\$1,016,625	Navy	Completed
NSM-7	Pump Station Inspections and Maintenance	Inspect, maintain, and clean sewage pump stations	14 pump stations	Unknown	Navy	Ongoing
NSM-8	SSO Investigations	Investigate and document all SSOs	Entire sewage collection system	Unknown	Navy	Ongoing
NSM-9	Cooking Oil and Grease Recycling Program	Recycle oil and grease from all cooking facilities on station; through agreement with St. Johns County, county removes used cooking oil and grease and recycles it; NS Mayport has constructed spill containments	All food handling establishments and ships	\$28,600	Navy/ St. Johns County	Ongoing
NSM-10	Stormwater System Maintenance	Maintain vegetation and structures in stormwater system; remove trash and debris	Entire stormwater conveyance system	Contract sensitive	Navy	Ongoing
NSM-11	Clean Out Swales and Culverts	Excavate stormwater ditches and swales to design elevation and clean out culverts	3,350 LF	\$89,300	Navy	Completed
NSM-12	Debris Removal	Remove trash and debris from grounds	All Naval Station grounds	Contract sensitive	Navy	Ongoing
NSM-13	Illicit Discharge Detection and Elimination	Systematically survey for and eliminate illicit connections/discharges to stormwater system	Entire stormwater collection system	Unknown	Navy	Ongoing
NSM-14	Stormwater Public Education and Outreach Efforts	Publish quarterly articles in NS Mayport newspaper and housing newsletter; publish resident brochure	Entire station	Unknown	Navy	Ongoing
NSM-15	Pet Waste Management/ Ordinance	Regulate pets in housing areas	All housing areas	Unknown	Navy	Ongoing
NSM-16	Pet Waste Collection Stations	Install and maintain pet waste collection stations in recreational areas	2 recreational vehicle parks, beach access, and housing areas	\$1,417	Navy	Ongoing
NSM-17	Street Sweeping– Housing	Sweep streets and cul-de-sacs monthly in on-base and off-base housing areas	85,316 square yards/month	Unknown	Public Private Venture	Completed
NSM-18	Street Sweeping– Airfield	Sweep airfield areas, including flight line, taxiways and runway, weekly	1,462,497 square yards/month	Unknown	Navy	Completed
NSM-19	Storm Drain Markers	Install storm drain markers on street and parking lot stormwater inlets	Entire station	\$830	Navy	Ongoing

SECTION 14: GREENFIELD CREEK (WBID 2240)

14.1 JEA ACTIVITIES IN THE GREENFIELD CREEK WATERSHED

During the last year, JEA inspected nine ARVs, repaired one pump station, inspected 0.11% of the lines through close-circuit television, and cleaned 2.72% of the sanitary sewer lines. It also inspected eight manholes as part of the Pop-Top Program. JEA's activities in the Greenfield Creek watershed are shown in **Table 49**.

TABLE 49: JEA ACTIVITIES IN THE GREENFIELD CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-142	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-210	CIPP–Install New Inner Lining	Rehabilitate failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-143	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	0 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-144	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	9 ARVs inspected in 2014	Not applicable	JEA	Ongoing
JEA-145	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	3 stations (Queens Harbor, Bermuda Cove, Indian Springs)	Unknown	JEA	Completed – All in WBID
JEA-146	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-147	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-148	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-149	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	1 project in 2014	\$172,508	JEA	Ongoing
JEA-150	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-151	Pipe TV Inspection	Inspect existing infrastructure through use of a CCTV system	586 feet	Not applicable	JEA	Ongoing
JEA-152	Pipe Cleaning	Clean existing pipes to avoid blockages	343 feet of HDPE pipe and 13,608 non-HDPE in 2014	Not applicable	JEA	Ongoing
JEA-153	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-154	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-155	Pop-Top Program	Pop-Top Program	8 manholes inspected in 2014	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-156	Non-Destructive Testing Program/ Pipe Integrity Testing	Non-Destructive Testing Program/ Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

14.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE GREENFIELD CREEK WATERSHED

In 2014, FDOH issued two repair and one abandonment permits. It also performed three plan reviews and site evaluations. The programs and activities FDOH conducts in the Greenfield Creek watershed are shown in **Table 50**.

TABLE 50: FDOH IN DUVAL COUNTY ACTIVITIES IN THE GREENFIELD CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-76	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 2 repair and 1 abandonment permits issued	\$1,500	FDOH	Ongoing
FDOH-77	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	Not applicable	Not applicable	FDOH	Ongoing
FDOH-78	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-79	Application/ Plan Review/ Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	3 plan reviews and site evaluations performed in WBID	\$600	FDOH	Ongoing
FDOH-80	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-81	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	No complaint investigations performed	Not applicable	FDOH	Ongoing
FDOH-82	Intensive Inspection Program	Carry out intensive geospecific inspections in selected BMAP WBIDs based on repair permit applications, water quality information, and site conditions; additional WBIDs may be identified in future based on ongoing assessment efforts	Approximately 181 inspections and 19 re-inspections performed in WBID	\$20,000	FDOH/ department/ EPA Section 319 Nonpoint Source Management Program Implementation Grant	Completed

14.3 COJ ACTIVITIES IN THE GREENFIELD CREEK WATERSHED

During the reporting period, COJ had one work order for an illegal discharge, and this inspection was initiated through information from the CARE database. In addition, It collected four routine water quality samples and four follow-up samples on high counts. COJ also connected one septic tank to the sewer system outside a failure area. COJ's efforts in the Greenfield Creek watershed are shown in **Table 51**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 51: COJ ACTIVITIES IN THE GREENFIELD CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-225	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-226	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-227	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-228	Pollution–Water–Illegal Discharge	CARE initiated inspection	1	\$379	COJ	Ongoing
COJ-229	Sewer Drains into Yard/Ditch	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-230	Sewer Overflow	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-231	Private Lift Station Inspection	4 private lift stations in WBID	0	\$0	COJ	Ongoing
COJ-232	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-233	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	3 stations (San Pablo Road, Atlantic and Girvin Road, 12743 Atlantic Boulevard)	Unknown	COJ	Completed – none in WBID
COJ-234	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	0	\$0	COJ	Ongoing
COJ-235	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling; 1 station in WBID	4	\$708	COJ	Ongoing
COJ-236	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted	4	\$708	COJ	Ongoing
COJ-237	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	193 tanks, 1 connected	Unknown	COJ	Ongoing
COJ-238	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-239	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

14.4 FDOT ACTIVITIES IN THE GREENFIELD CREEK WATERSHED

FDOT collected 87 pounds of debris from street sweeping two miles of roadways. FDOT helps to fund one monitoring station in the Craig Creek watershed that is sampled quarterly as part of the MS4 routine monitoring program. **Table 52** lists FDOT’s activities in the Greenfield Creek watershed.

TABLE 52: FDOT ACTIVITIES IN THE GREENFIELD CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-80	PIC Program	Search for illicit connections	Effort is continuous in WBID; none identified	Countywide - \$45,394	FDOT/ COJ	Ongoing
FDOT-128	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connections/ discharge found this reporting period	Included in FDOT-80	FDOT/ COJ	Ongoing
FDOT-81	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	4 routine water quality samplings performed	Countywide - \$197,794	FDOT/ COJ	Ongoing
FDOT-82	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	4	Included in FDOT-81	FDOT/ COJ	Ongoing
FDOT-83	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-84	Stormwater Management Systems	Atlantic Boulevard Widening stormwater project—construct wet ponds	51 acres, wet ponds	Unknown	FDOT	Completed
FDOT-85	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 1 mile of roadways and associated stormwater conveyance systems currently maintained in this WBID; approximately 2 miles of roadways swept with 87 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing

SECTION 15: POTTSBURG CREEK (WBID 2265B)

15.1 JEA ACTIVITIES IN THE POTTSBURG CREEK WATERSHED

During the last year, JEA replaced sewer collection pipes through the process called “pipe bursting,” replacing 0.09% of the lines, used CIPP on 0.11% of the pipes, relined three manholes, repaired three pump stations, inspected 0.12% of the lines with closed-circuit television, and cleaned 0.56% of the pipes in the watershed. It also inspected 29 manholes as part of the Pop-Top Program. JEA’s activities in the Pottsburg Creek watershed are shown in **Table 53**.

TABLE 53: JEA ACTIVITIES IN THE POTTSBURG CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-157	Pipe Bursting–Increase Carrying Capacity	Replace failing/leaking infrastructure	363 feet	Not applicable	JEA	Ongoing
JEA-206	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-219	CIPP–Install New Inner Lining	Rehabilitate failing/leaking infrastructure	424 feet	Not applicable	JEA	Ongoing
JEA-158	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	3 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-159	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	No effort in 2014	Not applicable	JEA	Ongoing
JEA-160	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	5 stations (ABC Jax Liquors, River Hill Condo, Glynlea Phase 2, Jenkins Brick, San Souci)	Unknown	JEA	Completed – All in WBID
JEA-161	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-162	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-163	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-213	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	3 projects in 2014	\$106,054	JEA	Ongoing
JEA-164	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-165	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	475 feet of pipe in 2014	Not applicable	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-166	Pipe Cleaning	Clean existing pipes to avoid blockages	148 feet of HDPE pipe and 2,022 feet of non-HDPE cleaned in 2014	Not applicable	JEA	Ongoing
JEA-167	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-168	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-169	Pop-Top Program	Pop-Top Program	29 manholes inspected in 2014	Not applicable	JEA	Ongoing
JEA-170	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

15.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE POTTSBURG CREEK WATERSHED

In 2014, FDOH issued six new, 15 repair, two abandonment, and 33 annual operating permits. It also conducted 23 plan reviews and site evaluations and performed eight complaint investigations. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities that FDOH conducts in the Pottsburg Creek watershed are shown in **Table 54**.

TABLE 54: FDOH IN DUVAL COUNTY ACTIVITIES IN THE POTTSBURG CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-83	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 6 new, 15 repair, and 2 abandonment permits issued	\$11,500	FDOH	Ongoing
FDOH-84	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	33 annual operating permits issued for IMZ/commercial properties	\$11,500	FDOH	Ongoing
FDOH-85	SWIM Project	Implement broad-ranging septic tank ordinance	Approximately 34% of Oakhaven failure area and 85% of former Glynlea nuisance area are located in this WBID	Not applicable	FDOH	Ongoing
FDOH-86	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-87	Application/ Plan Review/ Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 23 plan reviews and site evaluations performed	\$4,600	FDOH	Ongoing
FDOH-88	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-89	Failure Area Evaluation	Work with COJ to evaluate why area south of Glynlea is not ranked as failure area	Consider adding failure area	Unknown	FDOH	Completed as part of FDOH-112
FDOH-90	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	8 complaint investigations performed	\$1,200	FDOH	Ongoing
FDOH-112	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	Approximately 1,410 inspections and 169 re-inspections performed in WBID	\$236,850	FDOH/ department/ EPA Section 319 Nonpoint Source Management Program Implementation Grant	Completed

15.3 COJ ACTIVITIES IN THE POTTSBURG CREEK WATERSHED

During the reporting period, COJ had 85 work orders for ditch and creek regrading, 52 for repair/clearing of structures, five for illicit water discharges, three for sewers that drain to yard or ditch, and three for sewer overflows. These inspections are initiated through information from the CARE database. COJ also proactively maintained 1,498 feet of outfall ditches, inspected ten private lift stations, and followed up on two PICs (both found to be illicit). In addition, COJ collected eight routine water quality samples. COJ also connected two septic tanks to the sewer system located outside of a failure area. COJ's efforts in the Pottsburg Creek watershed are shown in **Table 55**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 55: COJ ACTIVITIES IN THE POTTSBURG CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-240	Barnes Road (University Boulevard to Parental Home) (Main Stem COJ-11)	Construct wet detention pond	97 acres	Unknown	COJ	Completed
COJ-241	Parental Home Road Phase 2 (Beach Boulevard to Ibach Road) (Main Stem COJ-15)	Construct wet detention pond	82 acres	Unknown	COJ	Completed
COJ-242	Parental Home Road Phase 1 (Bowden Road from Salisbury to Dean Road) (Main Stem COJ-14)	Construct wet detention pond	28 acres	Unknown	COJ	Completed
COJ-342	Regional Stormwater Facility - MSMP	8 acre facility + 7.5 acre facility + MAPs in existing ponds	Unknown	\$11,112,000	COJ	Planned
COJ-243	Wren Road Drainage	Implement drainage improvements along Wren Road	Unknown	\$45,000	COJ	Completed
COJ-363	3051 Herring Road	Drainage improvement	Unknown	\$26,162	COJ	Completed
COJ-364	8602 Emerald Isle Circle South	Drainage improvement	Unknown	\$64,762	COJ	Completed
COJ-365	Leafy Lanes	Drainage improvement	Unknown	\$3,389	COJ	Completed
COJ-393	2444 Buttonwood Drive	Storm sewer	Storm sewer	\$7,090	COJ	Construction
COJ-394	7518 Holiday Rd S	Storm sewer	Storm sewer	\$5,974	COJ	Construction
COJ-395	8362 Hidden Lake	Storm sewer	Storm sewer	\$5,369	COJ	Construction
COJ-396	548 Bay Ridge Rd	Storm sewer	Storm sewer	\$2,616	COJ	Construction
COJ-244	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	85	\$92,712	COJ	Ongoing
COJ-245	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-246	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	52	\$24,877	COJ	Ongoing
COJ-419	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	1,498 feet	\$3,221	COJ	Ongoing
COJ-247	Illicit Water Discharge	CARE initiated inspection	5	\$1,895	COJ	Ongoing
COJ-248	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-249	Sewer Drains into Yard/Ditch	CARE initiated inspection	3	\$1,137	COJ	Ongoing
COJ-250	Sewer Overflow	CARE initiated inspection	3	\$1,137	COJ	Ongoing
COJ-251	Septic Tank Inspection	CARE initiated inspection	0	\$0	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-252	Private Lift Station Inspection	69 private lift stations in WBID, 3 identified and inspected in 2014	10	\$3,790	COJ	Ongoing
COJ-253	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-254	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	5 stations (Atlantic Boulevard near River Hill Drive, 3500 Southside Boulevard, 3444 Southside Boulevard, 3401 Southside Boulevard, 3332 Southside Boulevard)	Unknown	COJ	Completed – Atlantic Blvd station not found, 3401 Southside Blvd not in WBID, 3 others in WBID
COJ-255	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	3 stations (Atlantic Boulevard near River Hill Drive, 3840 Belfort Road, 7529 Salisbury Road)	Unknown	COJ	Completed
COJ-256	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center: 1 open, 1 closed	2 inspections (2 illicit)	\$758	COJ	Ongoing
COJ-257	PIC Program	Closed 21 open PIC cases	2	\$758	COJ	Completed
COJ-258	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling, 2 stations in WBID	8	\$1,088	COJ	Ongoing
COJ-343	Source Identification Sampling	Re-sampling effort conducted when high levels of fecal coliform bacteria are noted, in attempt to identify sources.	0	\$0	COJ	Ongoing
COJ-259	Glynlea Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	354 tanks, 354 connected	Unknown	COJ	Completed
COJ-260	Oakhaven Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	356 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-261	Murray Hill Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	1 tank, 1 connected	Unknown	COJ	Completed
COJ-262	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	1,477 tanks, 2 connected	Unknown	COJ	Ongoing
COJ-263	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-264	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

15.4 FDOT ACTIVITIES IN THE POTTSBURG CREEK WATERSHED

FDOT collected 1,105 pounds of debris from street sweeping 12 miles of roadways. In addition, FDOT helps to fund the two monitoring stations in the Pottsburg Creek watershed that are sampled quarterly as part of the MS4 routine monitoring program. **Table 56** lists FDOT's activities in the Pottsburg Creek watershed.

TABLE 56: FDOT ACTIVITIES IN THE POTTSBURG CREEK WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-86	PIC Program	Search for illicit connections	Effort is continuous in this WBID	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-87	PIC Program	Identify illicit connections and remove if found to be truly illicit	0 PICs found	Included in FDOT-86	FDOT/COJ	Ongoing
FDOT-88	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	8 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-89	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-90	Stormwater Management Systems	Construct stormwater ponds at Southside Blvd. and Beach Blvd. Interchange	33 acres, wet detention systems	Unknown	FDOT	Completed
FDOT-91	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways	About 6 miles of roadways and associated stormwater conveyance systems currently maintained in this WBID; approximately 12 miles of roadways swept with 1,105 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-119	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	Included in FDOT-88	FDOT/COJ	Ongoing

SECTION 16: MIDDLE TROUT RIVER (WBID 2203)

16.1 JEA ACTIVITIES IN THE MIDDLE TROUT RIVER WATERSHED

During the last year, JEA relined nine manholes, repaired one pump station, and cleaned 1.33% of the pipes. It also inspected nine manholes as part of the Pop-Top Program. JEA's activities in the Middle Trout River watershed are listed in **Table 57**.

TABLE 57: JEA ACTIVITIES IN THE MIDDLE TROUT RIVER WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-171	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	9 manholes relined in 2014	Not applicable	JEA	Ongoing
JEA-172	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	No effort in 2014	Not applicable	JEA	Ongoing
JEA-219	Open Cut–Removal and Replacement	Replace failing/leaking infrastructure	No effort in 2014	Not applicable	JEA	Ongoing
JEA-173	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-174	Inspect Force Main Discharge Manholes, Repair/ Rehabilitate as Necessary	Inspect force main discharge manholes, repair/ rehabilitate as necessary	Not applicable	Not applicable	JEA	Completed
JEA-175	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	1 project in 2014	\$27,196	JEA	Ongoing
JEA-176	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	2 stations (BIG-6671, Bigby Lane)	Unknown	JEA	Completed – Not in WBID
JEA-177	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	Not applicable	JEA	Completed
JEA-178	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-179	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	No effort in 2014	Not applicable	JEA	Ongoing
JEA-181	HDPE Pipe Cleaning– Contractor	Clean existing HDPE pipes to avoid blockages	No effort in 2014	Not applicable	JEA	Ongoing
JEA-182	Pipe Cleaning	Clean existing pipes to avoid blockages	1,837 feet of non-HDPE pipe in 2014	Not applicable	JEA	Ongoing
JEA-183	Implement CMOM Program	CMOM Program	Ongoing	Unknown	JEA	Ongoing
JEA-184	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-185	Pop-Top Program	Pop-Top Program	9 manholes inspected in 2014	Not applicable	JEA	Ongoing
JEA-186	Non-Destructive Testing Program/ Pipe Integrity Testing	Non-Destructive Testing Program/ Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing

16.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE MIDDLE TROUT RIVER WATERSHED

In 2014, FDOH issued two new, one repair, one abandonment, and one modification permits. It also conducted five plan reviews and site evaluations. The programs and activities that FDOH conducts in the Middle Trout River watershed are listed in **Table 58**.

TABLE 58: FDOH IN DUVAL COUNTY ACTIVITIES IN THE MIDDLE TROUT RIVER WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-91	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 2 new, 1 repair, 1 abandonment, and 1 modification permits issued	\$2,500	FDOH	Ongoing
FDOH-92	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	No annual operating permits issued for IMZ/commercial properties	Not applicable	FDOH	Ongoing
FDOH-93	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-94	Application/Plan Review/Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 5 plan reviews and site evaluations performed	\$1,000	FDOH	Ongoing
FDOH-95	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-96	Failure Area Evaluation	Work with COJ to evaluate if area south of Plummer Road, north of Garden Street and Trout River Boulevard, west to Interstate 295, and east to Messer Road should be designated as failure area	Consider adding new failure area	Unknown	FDOH	Completed as part of FDOH-113
FDOH-97	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	No complaint investigations performed	Not applicable	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-113	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions	Not applicable	Not applicable	FDOH/ department/ EPA Section 319 Nonpoint Source Management Program Implementation Grant	Completed

16.3 COJ ACTIVITIES IN THE MIDDLE TROUT RIVER WATERSHED

16.3.1 COMPLETED COJ PROJECTS

In 2014, COJ completed storm sewer projects at Old Kings Road and Moncrief-Dinsmore. These projects should help reduce fecal coliform loading to the Middle Trout River from these areas.

16.3.2 ONGOING COJ PROGRAMS AND ACTIVITIES

During the reporting period, COJ had one work order for ditch and creek regrading, one for a sewer that drains into a yard or ditch, and four for sewer overflows. These inspections are initiated through information from the CARE database. COJ also proactively maintained 18,260 feet of outfall ditches, inspected five private lift stations, and followed up on one PIC (found to be illicit). In addition, it collected eight routine water quality samples. COJ also connected one septic tank to the sewer system outside of a failure area. COJ's efforts in the Middle Trout River watershed are shown in **Table 59**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 59: COJ ACTIVITIES IN THE MIDDLE TROUT RIVER WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-265	Messer Area Drainage	Provide positive drainage to eliminate flooding; completion in 2013	Unknown	\$4,750,000	COJ	Planned
COJ-266	Garden Street Drainage Improvements	Address flooding at intersection of Garden Street and Iowa Avenue	Unknown	\$158,170	COJ	Completed
COJ-267	Allene Road Ditch Improvement	Address problem with eroding ditch that is flooding street	Unknown	Unknown	COJ	Completed
COJ-366	10309 Iowa Avenue	Drainage improvement	Unknown	\$86,748	COJ	Completed
COJ-367	8921 Messer Road	Drainage improvement	Unknown	\$25,671	COJ	Completed
COJ-368	Sycamore Lane	Drainage improvement	Unknown	\$51,186	COJ	Completed
COJ-397	Old Kings Road	Storm sewer rehab	Storm sewer	\$7,348	COJ	Completed
COJ-398	Moncrief-Dinsmore	Storm sewer rehab	Storm sewer	\$34,570	COJ	Completed
COJ-399	Iowa Avenue at Macklin Street	Drain line	Drain line	\$115,699	COJ	Construction
COJ-268	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	1	\$146	COJ	Ongoing
COJ-269	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-270	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-420	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping clean up, and illicit discharge source removal	18,260 feet	\$39,259	COJ	Ongoing
COJ-271	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-272	Pollution–Water–Illegal Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-273	Sewer Drains into Yard/Ditch	CARE initiated inspection	1	\$379	COJ	Ongoing
COJ-274	Sewer Overflow	CARE initiated inspection	4	\$1,516	COJ	Ongoing
COJ-275	Private Lift Station Inspection	13 private lift stations in WBID, 3 identified and inspected in 2014	5	\$1,895	COJ	Ongoing
COJ-276	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing
COJ-277	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	3 stations (Old Kings Road and Dunn Avenue, 6611 Dunn Avenue, 912 New Kings Road)	Unknown	COJ	Completed
COJ-278	Illicit Discharge Detection and Elimination	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center	1 inspection (1 illicit)	\$379	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-279	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling; 2 stations in WBID	8	\$1,088	COJ	Ongoing
COJ-280	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted	0	\$0	COJ	Ongoing
COJ-281	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	878 tanks, 1 connected	Unknown	COJ	Ongoing
COJ-282	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-283	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

16.4 FDOT ACTIVITIES IN THE MIDDLE TROUT RIVER WATERSHED

FDOT collected 379 pounds of debris from street sweeping five miles of roadways. The Adopt-A-Highway Program collected 81 pounds of trash from four miles of roadways. FDOT helps to fund the two monitoring stations in the Middle Trout River watershed that are sampled quarterly as part of the MS4 routine monitoring program. **Table 60** lists FDOT's activities in the Middle Trout River watershed.

TABLE 60: FDOT ACTIVITIES IN THE MIDDLE TROUT RIVER WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-92	PIC Program	Search for illicit connections	Effort is continuous in WBID; none identified	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-129	PIC Program	Identify and remove illicit connections if found to be truly illicit	No illicit connections/discharge found this reporting period	Included in FDOT-92	FDOT/COJ	Ongoing
FDOT-93	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	8 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-94	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	Included in FDOT-93	FDOT/COJ	Ongoing
FDOT-95	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-96	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	81 pounds of trash collected, trash collection area is 4 miles	Unavailable	Not applicable	Ongoing
FDOT-97	Maintain FDOT Stormwater Systems	Clean catch basin/inlet and other drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints and roadways sweeping	About 2.5 miles of roadways and associated stormwater conveyance systems currently maintained in this WBID; approximately 5 miles of roadways swept with 379 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing

SECTION 17: LOWER TROUT RIVER (WBID 2203A)

17.1 JEA ACTIVITIES IN THE LOWER TROUT RIVER WATERSHED

During the last year, JEA relined five manholes, inspected five ARVs, repaired one pump station, cleaned 0.80% of the non-HDPE lines, and cleaned 10.99% of the HDPE pipe in the watershed. It also inspected 83 manholes as part of the Pop-Top Program. JEA's activities in the Lower Trout River watershed are listed in **Table 61**.

TABLE 61: JEA ACTIVITIES IN THE LOWER TROUT RIVER WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-187	Manhole Linings Rehabilitated	Repair deteriorating manhole linings	5 manholes relined in 2014	\$1,500	JEA	Ongoing
JEA-220	Pipe Bursting– Increase Carrying Capacity	Replace failing/leaking infrastructure	No effort in 2014	\$59,250	JEA	Ongoing
JEA-221	ARV Inspection and Rehabilitation	ARV Inspection and Rehabilitation	5 ARVs inspected in 2014	\$14,802	JEA	Ongoing
JEA-188	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed	Not applicable	Not applicable	JEA	Completed
JEA-189	Inspect Force Main Discharge Manholes, Repair/Rehabilitate as Necessary	Inspect force main discharge manholes, repair/rehabilitate as necessary	Not applicable	\$750	JEA	Completed
JEA-190	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations	1 project in 2014	Not applicable	JEA	Ongoing
JEA-191	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	1 station (Northwood Apartments)	Unknown	JEA	Completed – All in WBID
JEA-192	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	Condition satisfied, routine inspections continuing	\$146,329	JEA	Completed
JEA-193	FOG Reduction Program	FOG Reduction Program	Ongoing	Not applicable	JEA	Ongoing
JEA-194	Implement CMOM Program	CMOM Program	Ongoing	Not applicable	JEA	Ongoing
JEA-195	SSO Root Cause Program	SSO Root Cause Program	Ongoing	Not applicable	JEA	Ongoing
JEA-196	Pop-Top Program	Pop-Top Program	83 manholes inspected in 2014	\$3,850	JEA	Ongoing
JEA-197	Non-Destructive Testing Program/ Pipe Integrity Testing	Non-Destructive Testing Program/ Pipe Integrity Testing	No effort in 2014	Not applicable	JEA	Ongoing
JEA-207	Pipe Cleaning	Clean existing pipes to avoid blockages	10,942 feet of non-HDPE pipe in 2014	\$1,046,660	JEA	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
JEA-208	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV system	No effort in 2014	\$62,420	JEA	Ongoing
JEA-211	HDPE Pipe Cleaning–Contractor	Clean existing HDPE pipes to avoid blockages	17,913 feet in 2014	\$670,180	JEA	Ongoing

17.2 FDOH IN DUVAL COUNTY ACTIVITIES IN THE LOWER TROUT RIVER WATERSHED

In 2014, FDOH issued seven new construction, five repair, and 22 annual operating permits. It also conducted 12 plan reviews and site evaluations and performed four complaint investigations. FDOH investigates all complaints received, performs a site visit, and initiates enforcement action on any sanitary nuisance violations. The programs and activities FDOH conducts in the Lower Trout River watershed are listed in **Table 62**.

TABLE 62: FDOH IN DUVAL COUNTY ACTIVITIES IN THE LOWER TROUT RIVER WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-98	OSTDS Program	Implement programs to address septic systems as potential sources	Approximately 7 new construction and 5 repair permits issued	\$6,000	FDOH	Ongoing
FDOH-99	Annual Operating Permits	Issue annual operating permits for PBTS, systems located in IMZs, and commercial systems	22 annual operating permits issued for IMZ/commercial properties	\$7,700	FDOH	Ongoing
FDOH-100	SWIM Project	Implement broad-ranging septic tank ordinance	About 51% of Riverview failure area and 32% of Lake Forest nuisance area located in this WBID	Not applicable	FDOH	Ongoing
FDOH-101	FDOH-Sponsored Training Programs	Hold annual training programs for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals	1 to 2 training sessions per year providing up to 12 contact hours	\$2,500	FDOH	Ongoing
FDOH-102	Application/ Plan Review/ Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system	Approximately 12 plan reviews and site evaluations performed	\$2,400	FDOH	Ongoing
FDOH-103	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually	Less than 1 year since previous update	Not applicable	FDOH	Ongoing
FDOH-104	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations	4 complaint investigations performed	\$600	FDOH	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOH-105	Intensive Inspection Program	Carry out intensive geospecific inspections in selected BMAP WBIDs based on repair permit applications, water quality information, and site conditions	Not applicable	Not applicable	FDOH/department/ EPA Section 319 Nonpoint Source Management Program Implementation grant	Completed

17.3 COJ ACTIVITIES IN THE LOWER TROUT RIVER WATERSHED

17.3.1 COMPLETED COJ PROJECTS

In 2014, COJ completed drainage improvement projects at 5330 Roanoke Boulevard, Donnybrook Avenue, Baldwin Street near the intersection at Barber Street, and 10602 Civic Club Circle. These projects should help to reduce fecal coliform loading to the Lower Trout River from these areas.

17.3.2 ONGOING COJ PROGRAMS AND ACTIVITIES

During the reporting period, COJ had six work orders for ditch and creek regrading, two for illegal discharges, three for a sewer that drains to a yard or ditch, and three for sewer overflows. These inspections are initiated through information from the CARE database. COJ also inspected five private lift stations, and collected eight routine water quality samples. In addition, COJ connected ten septic tanks to the sewer system in the Lake Forest failure area and connected one septic tank outside a failure area. COJ's efforts in the Lower Trout River watershed are listed in **Table 63**. Additional details about the COJ projects are included in **Appendix A**.

TABLE 63: COJ ACTIVITIES IN THE LOWER TROUT RIVER WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-284	Sherwood Forest Area	Implement project to reduce flooding	Unknown	\$3,190,400	COJ	Completed
COJ-285	La Villa Brooklyn (Broward Road at Smith Road)	Implement flood control project and compensatory treatment for new downtown library	Unknown	\$2,750,000	COJ	Completed
COJ-286	Riverview North	Implement wet detention/flood control project	Unknown	\$1,646,045	COJ	Completed
COJ-344	Riverview Area Drainage Improvements	Drainage improvements	Unknown	\$1,400,000	COJ	Completed
COJ-287	Soutel/Bassett Drainage Improvements	Implement drainage improvements—drain pipe beyond pond is 1 foot too high	Unknown	Unknown	COJ	Completed
COJ-369	10435 Biscayne Boulevard	Drainage improvement	Unknown	\$35,071	COJ	Completed
COJ-370	120 Franklin Street	Drainage improvement	Unknown	\$29,225	COJ	Completed
COJ-371	904 Brandywine	Drainage improvement	Unknown	\$366	COJ	Completed
COJ-372	Gregory Place	Drainage improvement	Unknown	\$18,361	COJ	Completed
COJ-400	3307 Trout River	Drain line	Drain line	\$154,325	COJ	Construction
COJ-401	5330 Roanoke Blvd	Cave in	Cave in	\$4,985	COJ	Completed
COJ-402	Donnybrook Ave.	Storm sewer	Storm sewer	\$34,910	COJ	Completed
COJ-403	Baldwin St @ Barber St	Storm sewer	Storm sewer	\$30,103	COJ	Completed
COJ-404	10602 Civic Club Cr	Drain line	Drain line	\$41,850	COJ	Completed
COJ-288	Ditch/Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests.	6	\$722	COJ	Ongoing
COJ-289	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-290	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests.	0	\$0	COJ	Ongoing
COJ-291	Illicit Water Discharge	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-292	Pollution–Water–Illegal Discharge	CARE initiated inspection	2	\$758	COJ	Ongoing
COJ-293	Sewer Drains into Yard/Ditch	CARE initiated inspection	3	\$1,137	COJ	Ongoing
COJ-294	Sewer Overflow	CARE initiated inspection	3	\$1.137	COJ	Ongoing
COJ-295	Septic Tank Inspection	CARE initiated inspection	0	\$0	COJ	Ongoing
COJ-296	GIS Coverage Update	Update and verify private lift station GIS coverage	Ongoing	Unknown	COJ	Ongoing

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	TOTAL COST	FUNDING SOURCE	PROJECT STATUS
COJ-297	Private Lift Station Inspection	23 private lift stations in WBID, 3 identified and inspected in 2014	5	\$1,895	COJ	Ongoing
COJ-298	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	3 stations (4835 Soutel Drive, 1061 Lem Turner, Lem Turner and Capper)	Unknown	COJ	Completed – All in WBID
COJ-299	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report	3 stations (8137 Main Street North, 800 Broward Road, 2149 Leonid Road)	Unknown	COJ	Completed
COJ-300	Illicit Discharge Detection and Elimination	Follow up on PICs	0	\$0	COJ	Ongoing
COJ-301	PIC Program	Investigation of illicit discharge and dumping issues through city staff and reported to CARE call center: 1 closed	1	\$0	COJ	Completed
COJ-302	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	8	\$1,088	COJ	Ongoing
COJ-345	Source Identification Sampling	Re-sampling effort conducted when high levels of fecal coliform bacteria are noted, in attempt to identify sources.	0	\$0	COJ	Ongoing
COJ-303	Lake Forest Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	375 tanks, 10 connected	Unknown	COJ	Ongoing
COJ-304	Riverview Failure Area–Septic Tank Phase-Out	Phase out septic tanks in failure areas	712 tanks, 0 connected	Unknown	COJ	Ongoing
COJ-305	Septic Tanks Outside Failure Area– Septic Tank Phase-Out	Phase out program as provided by COJ ordinance	1,858 tanks, 1 connected	Unknown	COJ	Ongoing
COJ-306	Septic Tank Maintenance Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing
COJ-307	Pet/Animal Management Public Education	Develop PSAs	Ongoing	Unknown	COJ	Ongoing

17.4 FDOT ACTIVITIES IN THE LOWER TROUT RIVER WATERSHED

FDOT collected 1,422 pounds of debris from street sweeping 12 miles of roadways. The Adopt-A-Highway Program collected 273 pounds of trash from 8.5 miles of roadways. In addition, FDOT helps to fund the two monitoring stations in the Lower Trout River watershed that are sampled quarterly as part of the MS4 routine monitoring program. **Table 64** lists FDOT's activities in the Lower Trout River watershed.

TABLE 64: FDOT ACTIVITIES IN THE LOWER TROUT RIVER WATERSHED

PROJECT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	LEVEL OF EFFORT	ESTIMATED COST	FUNDING SOURCE	PROJECT STATUS
FDOT-98	PIC Program	Search for illicit connections	Effort is continuous in WBID	Countywide - \$45,394	FDOT/COJ	Ongoing
FDOT-130	PIC Program	Identify and remove illicit connections if found to be truly illicit	0 PICs found	Included in FDOT-98	FDOT/COJ	Ongoing
FDOT-99	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling	8 routine water quality samplings performed	Countywide - \$197,794	FDOT/COJ	Ongoing
FDOT-100	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection	Ongoing effort	Countywide - \$11,492	FDOT	Ongoing
FDOT-101	Adopt-A-Highway Program	Allows individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris	273 pounds of trash collected, trash collection area is approximately 8.5 miles	Unavailable	Not applicable	Ongoing
FDOT-102	Interstate 295 from West of Duval to Biscayne Boulevard	Construct stormwater pond to capture and treat runoff	20 acres, wet detention systems	Unknown	FDOT	Completed
FDOT-103	Interstate 95 Improvement from South of Clark Road to Interstate 295	Construct stormwater pond to capture and treat runoff	94 acres, wet detention systems	Unknown	FDOT	Completed
FDOT-104	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints and roadway sweeping	About 6 miles of roadways and associated stormwater conveyance systems currently maintained in WBID; approximately 12 miles of roadways swept with 1,422 pounds of debris collected and properly disposed	Countywide - \$3,344,284	FDOT	Ongoing
FDOT-120	Source Identification Sampling	Resampling effort conducted when high levels of fecal coliform bacteria are noted to attempt to identify sources	0	Included in FDOT-99	FDOT/COJ	Ongoing

APPENDICES

APPENDIX A: COJ ACTIVITIES SUPPORTING INFORMATION

The following supplemental information is provided in reference to project and activity records contained in the COJ project tables.

SEPTIC TANK PHASE-OUT

During 2014, COJ and JEA used a combination of customer database information, infrastructure as-built information, and spatial processing to evaluate over 2,750 septic tanks for inclusion in the lateral only connection component of COJ's septic tank phase-out program. Lateral only connections are installed at properties where the sewer line is already available at the edge of the property and only the line from the building to the collection pipe needs to be installed. This program is focused on connecting parcels where existing sanitary sewer collection pipes exist or can be constructed without extending existing sewer collection mains.

During 2015, COJ and JEA will identify and prioritize areas and parcels that require main extension and collection system construction. To maximize water quality improvement, a prioritization criteria and weighting process for main extension and collection system project areas is currently under development. Prioritization criteria will include location of septic tank particularly as related to the following:

- FDOH in Duval County septic failure area.
- The last recorded rating of the failure area.
- Located in the LSJR Tributaries BMAP I or BMAP II areas.
- Proximity to surface waters.
- Water quality improvement.

PRIVATE LIFT STATION INSPECTIONS

During 2014, COJ EQD inspected 42 private lift stations and identified and inspected 20 private lift stations in the LSJR Tributaries BMAP II watersheds.

STORMWATER ACTION TEAM PROACTIVE MAINTENANCE PROGRAM

In late 2013, the COJ Stormwater Utility completed a review of drainage work orders and citizen complaints. Areas found to have a high number of repeat reactive work orders and citizen complaints were delineated and prioritized for proactive maintenance. During 2014, the Stormwater Action Team Proactive Maintenance Program focused on the removal of illegal dumping connections, removal of debris and excess vegetation from conveyance and outfall ditches, and the repair and cleaning of interconnecting closed conveyances. During 2015, the program will continue to focus on conveyance and outfall ditches.

VEGETATION MANAGEMENT

In the spring of 2014, COJ established a Mowing and Landscape Maintenance Division. The division's responsibilities include the control of vegetation in COJ's network of outfall drainage ditches.

WATER QUALITY MONITORING AND SAMPLING

COJ maintains several river and tributary sampling networks. The ambient tributary program currently consists of 103 locations and each site is sampled quarterly. Station locations are often near bridges and roadways to facilitate sampling efforts; sites are both above and within tidal influence from the St. Johns River or Intracoastal Waterway. The primary objective of this program is the collection of a long-term dataset that will enable the city to document water quality trends. Parameters include field observations, weather information, metered parameters, (dissolved oxygen [DO], percent saturation of DO, pH, temperature, salinity and specific conductance), and fecal coliform bacteria.

EQD also samples additional tributary stations monthly in five of the 15 BMAP II streams (18 sites) as part of the BMAP source assessment sampling obligations. EQD collected 304 samples in the BMAP II tributaries in 2014. Through coordination with the TAT, a protocol has been established for investigating high bacteria counts. When a tributary site results exceed 5,000 CFU, resampling is conducted upstream and downstream to attempt to determine the source of the elevated bacteria levels. EQD has elected to conduct follow up sampling on high bacteria counts from the routine ambient tributary network as well as the BMAP sampling. In 2014, EQD staff collected 18 follow-up samples in the BMAP II tributaries.

Appendix B: Updated Ranking of Impaired Tributaries

The following table lists the latest ranking of the 75 fecal coliform impaired tributaries in the LSJR Basin, showing both the historical rankings and the latest ranking using data from 2010 through 2014.

TABLE B-1: FECAL COLIFORM IMPAIRED TRIBUTARIES RANKING

N/A = Not applicable

WBID	NAME	2005- 2009 RANK	2006- 2010 RANK	2007- 2011 RANK	2008- 2012 RANK	2009- 2013 RANK	2010- 2014 RANK	BMAP
2287	MILLER CREEK	2	1	1	1	1	1	1
2304	MIRAMAR CREEK	11	5	5	8	10	1	1
2254	RED BAY BRANCH	15	11	9	9	7	3	N/A
2297	CRAIG CREEK	3	3	3	3	4	4	2
2316	WILLIAMSON CREEK	14	13	8	6	6	5	2
2256	DEER CREEK	4	12	13	12	15	6	1
2282	WILLS BRANCH	25	55	53	38	36	6	2
2306	NEW ROSE CREEK	26	24	25	48	52	8	N/A
2290	CEDAR SWAMP CREEK	69	67	65	49	42	9	N/A
2246	JONES CREEK	22	32	23	14	9	10	N/A
2324	FISHING CREEK	10	22	38	27	25	11	2
2322	BUTCHER PEN CREEK	9	2	2	2	2	12	1
2257	MCCOY CREEK	8	27	30	22	19	13	2
2305	NORMANDY VILLAGE RUN	64	59	58	44	42	14	N/A
2210	WEST BRANCH	37	29	28	30	22	16	N/A
2321	CHRISTOPHER BRANCH	6	7	6	6	5	17	N/A
2252	HOGAN CREEK	7	8	7	5	7	17	1
2235	NEWCASTLE CREEK	21	21	11	11	11	19	1
2284	LITTLE POTTSBURG CR	12	31	26	19	34	20	N/A
2189	RUSHING BRANCH	17	9	12	18	20	20	N/A
2464	GOVERNOR CREEK	49	28	29	47	44	22	N/A
2244	COWHEAD CREEK	45	40	44	32	29	23	N/A
2299	OPEN CREEK	38	18	17	24	24	24	1
2232	SIXMILE CREEK	61	62	63	64	59	25	N/A
2239	STRAWBERRY CREEK	62	65	49	23	18	25	N/A
2262	CEDAR RIVER	29	54	42	40	34	27	N/A
2220	NINE MILE CREEK	44	49	56	43	37	28	N/A
2280	BIG FISHWEIR CREEK	1	4	4	4	3	29	1
2266	HOPKINS CREEK	33	35	37	31	28	29	2
2238	LITTLE SIXMILE CREEK	24	30	32	29	40	31	N/A
2385	MANDARIN DRAIN	28	14	14	21	15	31	N/A
2278	SILVERSMITH CREEK	35	42	40	28	26	31	N/A
2240	GREENFIELD CREEK	34	36	33	38	29	34	2
2326	GOODBYS CREEK	18	43	41	40	39	35	1
2228	MONCREIF CREEK	13	17	35	26	17	37	2

WBID	NAME	2005- 2009 RANK	2006- 2010 RANK	2007- 2011 RANK	2008- 2012 RANK	2009- 2013 RANK	2010- 2014 RANK	BMAP
2382	UNNAMED DRAIN (TACITO CREEK)	32	6	18	13	14	38	N/A
2270	HOGPEN CREEK	46	45	45	56	55	39	N/A
2191	BROWARD RIVER	36	66	68	54	49	40	N/A
2227	SHERMAN CREEK	20	44	46	40	49	41	2
2204	TERRAPIN CREEK	16	20	24	35	38	42	1
2323	YELLOW WATER CREEK	70	71	70	62	62	42	N/A
2248	GINHOUSE CREEK	48	46	48	46	44	44	N/A
2203	TROUT RIVER	27	34	43	51	49	44	2
2233	LONG BRANCH	5	10	10	33	27	46	N/A
2249B	MCGIRTS CREEK	47	51	52	58	58	47	N/A
2592	MILL BRANCH	58	16	16	36	31	48	N/A
2381	CORMORANT BRANCH	19	26	34	50	46	49	2
2356	BIG DAVIS CREEK	52	61	61	60	55	50	N/A
2265B	POTTSBURG CREEK	30	48	51	54	48	51	2
2308	LEEDS POND	39	37	21	15	20	52	N/A
2361	DEEP BOTTOM CREEK	23	15	31	25	22	53	2
2224	RIBAULT RIVER	56	68	67	57	55	53	N/A
2351	JULINGTON CREEK	50	63	66	63	61	55	N/A
2419	SAMPSON CREEK	60	50	50	59	53	56	N/A
2203A	TROUT RIVER	68	70	71	51	54	57	2
2207	BLOCKHOUSE CREEK	31	23	20	15	12	58	2
2181	DUNN CREEK	40	41	55	66	63	59	N/A
2234	MT. PLEASANT CREEK	53	52	57	36	33	59	N/A
2249A	ORTEGA RIVER	43	69	69	67	65	59	N/A
2223	TROUT RIVER (UPPER)	65	58	62	53	40	62	N/A
2370	OLDFIELD CREEK	42	47	47	44	46	63	N/A
2365	DURBIN CREEK	72	73	73	65	64	64	N/A
2213P	ORTEGA RIVER	75	75	75	60	60	65	N/A
2368	LITTLE BLACK CREEK	55	60	15	15	65	66	N/A
2302	RYALS SWAMP	63	57	60	68	65	66	N/A
2446	BULL CREEK	74	74	74	N/A	65	68	N/A
2555	CRACKER BRANCH	73	72	72	68	65	68	N/A
2389A	DOCTORS LAKE DRAIN	41	19	19	N/A	65	68	N/A
2478	GREENE CREEK	71	56	59	34	65	68	N/A
2407	GROG BRANCH	51	33	36	19	12	68	N/A
2460	MILL CREEK	59	39	39	68	65	68	N/A
2444	PETERS CREEK	67	64	64	N/A	65	68	N/A
2511B	SIMMS CREEK	66	53	54	68	54	68	N/A
2561	UNNAMED DITCHES	57	25	22	9	31	68	N/A
2213R	UNNAMED DRAIN TO ST. JOHNS RIVER	54	38	27	N/A	65	68	N/A