



## Environmental Services (Engineering)

### Goals

To coordinate various engineering services for the City. These services include design and construction of land development and capital improvement projects, construction inspections, infrastructure improvements, traffic studies, flood plain administration, and long-range infrastructure planning. Environmental Services (Engineering) ensures that all applicable federal, state, and local regulatory requirements associated with the delivery of these services are adhered to.

### Objectives

Continue to evaluate the condition of all of the public roads in the City and schedule them for milling and resurfacing as funds permit.

Continue the computerized mapping of all private sewer-pumping stations throughout the City.

Continue to clean the drainage system as needed for all projects older than 15 years.

Continue doing all necessary inspections and applications for the National Pollutant Discharge Elimination System (NPDES) permit for the City.

### Major Functions and Activities

Environmental Services (Engineering) deals with construction activities of residential, commercial, industrial, and other subdivisions in the City for the design and construction of water and sewer infrastructure, roads, parking lots, grading and drainage systems, waterways, blasting, walkways, street lighting, traffic control devices, landscaping, and other related activities.

All design and construction plans for regulated engineering projects are submitted to the Division by developers or builders seeking plan approval and permitting. Once such plans are approved, construction permits are processed.

Inspection, documentation, and approval for all construction activities of all water, sewer, paving, drainage systems, and landscaping throughout the City to ensure that the work done is executed in compliance with approved plans and code requirements.

Responsible for the design, bidding process, construction supervision, and payments for all municipal projects funded by the City including water

and sewer infrastructure, roads, drainage systems, sidewalks, and landscaping.

Investigation and resolution of concerns received from residents related to utilities, drainage problems, sidewalks, roads and traffic engineering, and landscaping, etc.

Issuance of Flood Insurance Elevation Certifications. Provide related information to the public and insurance companies.

Act as a liaison with other governmental engineering and regulatory agencies.

Produce and maintain various mapping and plan systems including Computer-Aided Drafting Design (CADD) maps, as-built drawings, utility atlas and field drawings, and general engineering plans associated with various elements of the City infrastructure.

Provide for the field location of the City-owned underground infrastructure per the requirements of the Sunshine One-Call System as mandated by Florida State Statutes.

Provide engineering support services to other divisions and departments within the City.

### Budget Highlights

Maintenance activities include the inspection and cleaning of the drainage systems on an as-needed basis. Continue to generate and update computerized base maps of new projects, the drainage system, and private sewer lift stations to ensure that these important facilities operate at their design parameters. Continue to perform traffic studies as requested by residents and by the Police Department. Conduct inspections of private developments for compliance with signage and marking requirements of the traffic enforcement agreements that the City has signed with these developments. Inspect all construction projects to ensure that they meet the sedimentation and erosion control requirements of the NPDES permit for the City. The budget provides 50% of the salary and benefits of a new Engineer position; the other 50% is coded to the Utilities Fund.

### Accomplishments

Completed plans and permits and oversaw the milling and resurfacing of Taft Street – Hiatus Road to Palm Avenue.

Continued to repair city sidewalks, constructed new sidewalks and provided pedestrian ramps at various



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locations throughout the City.

Continued to inspect commercial parking lots.

Completed plans, permits, and the milling and resurfacing of the following roads:

- NW 78 Avenue – 10 Street to NW 13 Street
- NW 11 Street – NW 78 Avenue to NW 78 Terrace
- NW 11 Street – NW 78 Avenue to NW 78 Terrace
- NW 11 Court – NW 78 Avenue to NW 78 Terrace
- NW 12 Street – NW 78 Avenue to NW 78 Terrace.

Completed plans and permits and oversaw the milling and resurfacing of Hiatus Road between Johnson Street and Taft Street.

Completed plans and permits for the milling and resurfacing of Hiatus Road between Taft Street and Sheridan Street. Construction is scheduled to begin in December 2012.

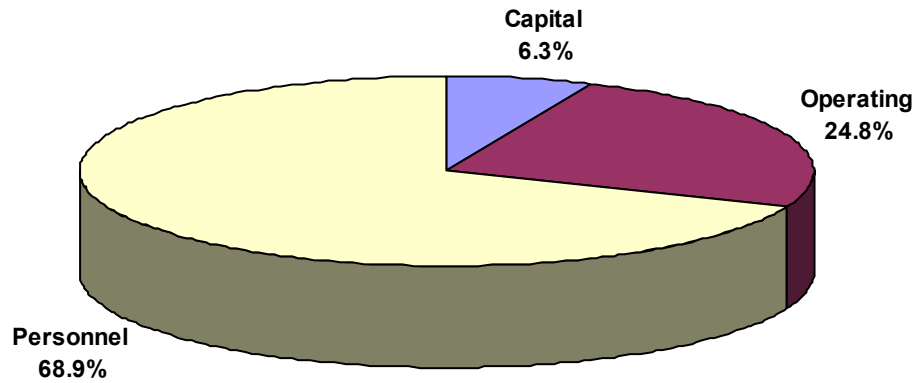
# Environmental Services (Engineering) Performance Measures

Indicator	2009-10		2010-11		2011-12	2012-13
	Actual	Goal	Actual	Goal	Goal	Goal
<b>Outputs</b>						
Permits issued	112	100	149	100	100	120
Linear feet of traffic guardrail installed	100	200	0	0~	0~	0~
Linear feet of sidewalk replaced	15,962	6,000	19,878	5,000~	7,000	10,000
Linear feet of curbing installed +	0	1,000	100	0~	0~	0~
Inspections conducted	2,000	3,000	1,943	3,000	2,500~	2,000~
Utility location tickets processed	3,610	5,000	3,697	5,000	4,500~	4,000~
<b>Effectiveness</b>						
% of projects designed, bid, and constructed on time and on budget	100%	100%	100%	100%	100%	100%
% completion of the computerized base map for the drainage system in the eastern portion of the City	70%	70%	70%	75%	70%	70%
<b>Efficiency</b>						
Inspections conducted per Engineer Inspector	1,200	1,200	633	1,200	1,200	700

+ Output reflects new curbing installed, which is not needed as much as replacement of damaged sidewalks.

~ The reduced fiscal year 2010-11, 2011-12, and 2012-13 Output Goals reflect a combination of limited activity in new construction and budgetary constraints.

## Environmental Services (Engineering) - Budget Summary



<b>Expenditure Category</b>	<b>2009-10 Actual</b>	<b>2010-11 Actual</b>	<b>2011-12 Budget</b>	<b>2012-13 Budget</b>
Personnel				
Salary	350,584	158,447	166,376	189,452
Benefits	195,974	131,285	101,261	136,854
<b>Personnel Subtotal</b>	<b>546,558</b>	<b>289,732</b>	<b>267,637</b>	<b>326,306</b>
Operating				
Other Contractual Services	20,361	72,695	90,470	79,682
Communication and Freight Services	372	762	750	800
Rentals and Leases	107	-	500	200
Repair and Maintenance Services	17,158	9,034	18,188	11,178
Office Supplies	2,191	3,335	2,500	3,000
Operating Supplies	12,000	15,025	14,447	22,323
Publications and Memberships	127	-	128	128
<b>Operating Subtotal</b>	<b>52,315</b>	<b>100,852</b>	<b>126,983</b>	<b>117,311</b>
Capital				
Machinery and Equipment	-	-	34,162	30,000
<b>Capital Subtotal</b>	<b>-</b>	<b>-</b>	<b>34,162</b>	<b>30,000</b>
<b>Total</b>	<b>598,873</b>	<b>390,584</b>	<b>428,782</b>	<b>473,617</b>

### Environmental Services (Engineering) - Personnel Summary

Position Title		2009-10 Actual	2010-11 Actual	2011-12 Adopted Budget	2012-13 Budget
12500 City Engineer		0.5	-	-	-
12667 Chief Engineering Inspector		1	1	1	1
12770 Engineer Inspector		1	1	1	1
12774 Engineer		-	0.5	-	0.5
Total	Full-time	2.5	2.5	2	2.5
	Part-time	-	-	-	-