

IMMOKALEE
WATER
&
SEWER
DISTRICT

2017 PUBLIC FACILITIES REPORT

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IMMOKALEE WATER & SEWER DISTRICT 2017 PUBLIC FACILITIES REPORT

INTRODUCTION

The Immokalee Water and Sewer District (the "District") was created by an Act of the Florida Legislature on July 5, 1978, for the purpose of providing water and sewer services to Immokalee, Florida, an unincorporated area of Collier County, Florida. The District operates and maintains the water and sewer plants and systems as a special district of the state of Florida. The District is governed by up to a seven (7) member Board of Commissioners appointed by the Governor of the state of Florida. The Board of Commissioners administers the District, independent from any other local governing body.

The District currently employs 40 people.

BOUNDARIES

Sections 1 through 36 of Township 46 South, Range 28 East; together with Sections 1 through 6 of Township 47 South, Range 28 East; together with Sections 1 through 36 of Township 46 South, Range 29 East; together with Sections 1 through 12, Sections 15 through 21 and that part of Section 13 lying Northeasterly of a diagonal line from the Northwest Corner to the Southeast Corner of said Section 13, Township 47 South, Range 29 East; together with Sections 6, 7, 18, 19, 30 and 31 of Township 46 South, Range 30 East; together with Sections 6, 7, 18, and that part of Section 19 lying Northeasterly of a diagonal line from the Northwest corner to the Southeast corner of said Section 19, Township 47 South, Range 30 East. All the lands described being in Collier County, Florida. These boundaries were expanded during the 2005 Legislative Session.

CURRENT POPULATION

According to Collier County Population Projection the permanent population is 29,363 people, swelling to 36,415 people in peak harvesting months.

PREDOMINANT TYPES OF LAND USE

<u>Land Use Category</u>		<u>Acreage</u>
Residential - all types	1,931.50	
Sub-total		1,931.50
Commercial	523.70	
Sub-total		523.70
Conservation	90.60	
Industrial	127.10	
Commercial	187.10	
Institutional	386.60	
Government	2,683.00	
Seminole Reservation	<u>423.90</u>	
Sub-total		3,898.30
PUD	1,052.39	
Sub-total		1,052.39
Agriculture	9,442.10	
Sub-total		<u>9,442.10</u>
TOTAL		<u>16,847.99</u>

WATER PLANT AND DISTRIBUTION Dept 10

Supervisor – James Jean-Louis

The District owns and maintains more than 100 miles of water distribution lines, and serves 6,436 connections or 7,641 equivalent dwelling units. The SFWMD Consumptive Use Permit allows the District to pump 1226 million gallons a year from the aquifers.

Jerry V. Warden Water Treatment Facility (S 9th Street)

Address: 1020 Sanitation Road, Immokalee, FL 34142

Constructed 1967, Upgraded 1996, and 2005.

Information: 1.5 MG of storage capacity. Treatment: Aeration, chloramination, polyphosphate (iron control) fluoride. Availability: eight wells that draw from the Hawthorne, Upper Sandstone and the Lower Tamiami Aquifer.

Current FDEP Capacity: 2.25 MGD

Demand:	Jan. 2017	0.726 MGD	Jul. 2016	0.596 MGD
	Feb. 2017	0.721 MGD	Aug. 2017	0.644 MGD
	Mar. 2017	0.761 MGD	Sep. 2017	0.648 MGD
	Apr. 2017	0.798 MGD	Oct. 2017	0.672 MGD
	May 2017	0.787 MGD	Nov. 2017	0.664 MGD
	Jun. 2017	0.534 MGD	Dec. 2017	0.733 MGD

Back-up power: Caterpillar 277 kw generator, diesel powered.

Airport Water Plant

Address: 1107 Airport Access Road, Immokalee FL 34142

Constructed 1985, upgraded 1992, 1996, and 2005.

Information: 0.75 MG of storage capacity. Treatment: Aeration, chloramination, polyphosphate (iron control), fluoride. Availability: three operating wells that draw from the Lower Tamiami aquifer.

Current FDEP Capacity: 1.35 MGD

Demand:	Jan. 2017	0.744 MGD	Jul. 2017	0.279 MGD
	Feb. 2017	0.516 MGD	Aug. 2017	0.325 MGD
	Mar. 2017	0.406 MGD	Sep. 2017	0.371 MGD
	Apr. 2017	0.460 MGD	Oct. 2017	0.447 MGD
	May 2017	0.464 MGD	Nov. 2017	0.425 MGD
	Jun. 2017	0.424 MGD	Dec. 2017	0.419 MGD

Back-up power: Onan 200 kw generator, diesel powered.

Carson Plant

Address: 1201 Carson Road, Immokalee FL 34142

Constructed 1975, upgraded 1992, 1996, 2006, and 2008.

Information: 1.50 MG of storage capacity. Type of treatment: Aeration, chloramination, polyphosphate (iron control), and fluoride. Availability: five wells that draw from the Lower Tamiami aquifer.

Current FDEP Capacity: 2.35 MGD

Demand:	Jan. 2017	1.223 MGD	Jul. 2017	0.886 MGD
	Feb. 2017	1.062 MGD	Aug. 2017	0.942 MGD
	Mar. 2017	1.094 MGD	Sep. 2017	0.876 MGD
	Apr. 2017	1.006 MGD	Oct. 2017	0.913 MGD
	May 2017	0.925 MGD	Nov. 2017	0.989 MGD
	Jun. 2017	0.890 MGD	Dec. 2017	0.948 MGD

Back-up power: Onan 400 kw generator, diesel powered.

WASTEWATER PLANT Dept. 20

Supervisor – Fernando Ramirez

Address: 140 White Way, Immokalee, FL 34142

Constructed 1982, Upgraded 1990, and 2013

Current FDEP Capacity: 4.0 MGD

Type of treatment: Oxidation ditch, extended aeration. The District has approximately 350 acres of effluent spray irrigation, with a 4.985 mgd deep injection well for backup.

AVG.Flow:	Jan. 2017	1.90 MGD	Jul. 2017	1.41 MGD
	Feb. 2017	1.72 MGD	Aug. 2017	2.97 MGD
	Mar. 2017	1.79 MGD	Sep. 2017	3.32 MGD
	Apr. 2017	1.80 MGD	Oct. 2017	2.47 MGD
	May 2017	1.70 MGD	Nov. 2017	1.98 MGD
	Jun. 2017	1.48 MGD	Dec. 2017	1.64 MGD

Back-up power: Spectrum Detroit Diesel, Model 800DS4, diesel powered.

Class A Sludge Treatment Process – The District completed construction in 2015. This process uses the Schwing Bioset Process to turn the District’s sludge into fertilizer.

WASTEWATER COLLECTION Dept 30

Supervisor - Hector Ramos

The District owns and maintains 44 lift stations and more than 80 miles of wastewater collection lines.

CUSTOMER SERVICE & ADMINISTRATION Dept. 40

Supervisor – Ofelia Gonzalez

Location: 1020 Sanitation Road, Immokalee, FL 34142

MAINTENANCE Dept. 50

Supervisor – Derys Maldonado

Location: 140 White Way, Immokalee, FL 34142

UPCOMING PROJECTS

Project Description:

REPLACEMENT OF AC WATER LINES AND UPGRADE OF 2 AND 3 INCH WATER MAINS – This project began in 2017. The project involves removing the asbestos cement water lines throughout the District, and to upgrade the 2 and 3 inch water mains throughout the community. It is expected to cost over \$20,000,000.

VARIOUS LIFT STATION IMPROVEMENTS AND SEWER MAIN LINING – The District will rehabilitate several lift stations throughout the District, and add emergency backup power. It will also utilize cast-in-place lining to restore functionality to sewer mains throughout the District. The project is slated to begin in 2020, and is estimated to cost \$3,000,000.

PUBLIC ACCESS RE-USE PROJECT – This project will provide public access reuse to various parts of the Immokalee community. It is slated to begin in 2022, and will cost approximately \$2,000,000.

SOURCES

Boundaries - State of Florida, Laws of Florida, Chapter 2005-298, (House Bill 733).

Current Population & Seasonal Population – Collier County IAMP Data & Analysis - March 2010

Existing and Future Land Use – Collier County IMMOKALEE AREA MASTER PLAN DATA & ANALYSIS – March 2010