Table 4-2B
Miami-Dade County Current and Projected Wastewater System Capacity 2016-2026

County WWTP Capacities		Actual County Flow (mgd)	Total Permitted Capacity / Projected County Flows (mgd)		
	2016 Plant Capacity (mgd)	Dec. 2015	2022	2024	2026
North	120.0	89.3	120.0 / N/A ¹	120.0 / N/A ¹	85.0 / N/A ¹
Central	143.0	120.0	143. 0 / N/A ¹	143.0 / N/A ¹	83.0 / N/A ¹
South	112.5	97.1	121.0 / N/A ¹	131.0 / N/A ¹	131.0 / N/A ¹
West	N/A	N/A	N/A	N/A	102.0 / N/A ¹
Total	375.5	306.4	384.0 / 321.1	394.0 / 326.3	401.1 / 331.6

Source: Miami-Dade Water and Sewer Department, 2016; ¹County only has projected data for total regional system

DRAINAGE

In 2013, the Town completed a major retrofit of the existing drainage systems. The existing storm drainage system consisted of a network of underground storm sewers and outfalls discharging directly into Indian Creek and Biscayne Bay. An existing pumping station at the western end of 92nd Street assisted the drainage of water from that street by pumping to an outfall. Storm sewers in the existing system ranged in diameter from 10 inches to 36 inches.

Town of Surfside has two state roadways within the Town; a north-south pair SR A1A/Collins Ave (northbound) and Harding Avenue (southbound); and one east-west SR-922/96th Street. The Florida Department of Transportation (FDOT) provided storm drainage improvements on Harding and Collins Avenue in the early 1990's. Equipment which currently serves the 92nd Street pump station were replaced by FDOT and maintained by the Town; however, even with these modifications, water may still reach curb level in various locations due to tidal fluctuations. The water level of Biscayne Bay is higher than normal during storm periods and high tide, creating a back up in the outfall pipes. The Harding and Collins storm drainage improvements utilize on-site wells and control structures to provide additional capacity.

In 2002, FDOT completed the Stormwater Pump Station System Operational Evaluation and Recommended Improvements (OERI) Report which provided three alternatives to improve stormwater pump systems along Harding. It was determined that the most feasible alternatives are those that have an appropriate overflow capacity, once the wells reach capacity. This was achieved by introducing an emergency gravity bypass in the event that the pumps fail. The alternative consists of new pump stations at the existing vault locations. These new stations required the existing gravity system to be extended to the Intracoastal Waterway seawalls (at 88th Street and 94th Street), a new 36-inch force main to connected to the existing wells; new pumps, structures, controls, and a new gravity bypass drainage pipe.

In 2006, the Town of Surfside initiated another stormwater project, which consists of retrofitting three of the Town's outfall pipes to reduce pollutants and fresh water entering Biscayne Bay. The facilities at each location will consist of three new stormwater pump stations which pump water into drainage wells. In order to address pollution concerns for a Florida Department of

Environmental Protection (FDEP) drainage well permit, the Town installed Nutrient Separating Baffle Boxes upstream of the pump station to provide treatment before the runoff enters the groundwater which was included in this retrofit project.

The recently constructed retrofitted stormwater management system of the Town consists of a network of underground storm sewers along with outfall control structures discharging into Indian Creek and Biscayne Bay, and three additional pump stations discharging into 9 drainage wells. The newly constructed control structures facilitate well discharge before discharging to Biscayne Bay. The project addressed long-term concerns regarding water backing into the streets and poor water quality in the adjacent Biscayne Bay along the Town's shores. The project directly addressed The Trust for Public Land's Biscayne Bay Accessibility report, supported the SFWMD's Biscayne Bay Partnership Initiative (BBPI), and enhanced the level of service.

In 2015, the Town completed drainage improvements for Biscaya Island along 88th Street. The Town constructed new check valves to prevent back flow into the existing roadways and upsized one 12-inch outfall to a 24-inch diameter outfall. Since the Town completed the retrofit of the existing drainage system in the recent past, there are currently not additional level of service projects required or needed for the Town's drainage system.

SOLID WASTE

The Town's Public Works Department has three garbage trucks which collect trash and garbage on a weekly basis and haul it to Miami-Dade County's Resource Recovery Plant west of Miami International Airport and other Miami-Dade County landfills. Last year (FY15/16) Surfside deposited approximately 4,932 tons of waste material at the County's facility. Based on the 2010 U.S. Census population of 5,744 a volume of just 4.7 pounds per person per day was calculated. The Town, as of June 2, 2016, discontinued recycling services with Miami-Dade County for residential properties. The Town now collects recycling. Between June 2, 2016 and December 29, 2016 the Town collected a total of 218.9 tons of recycling. Based on information supplied by the Miami-Dade County Department of Solid Waste Management (Table 4-3), the existing disposal capacity at the North Dade Landfill and the South Dade Landfill and the Resource Recovery Plan appear to have adequate capacity to meet Surfside's needs for the foreseeable future.

Table 4-3
Miami-Dade County Solid Waste Facility Capacity

	South Dade Landfill	North Dade Landfill	Resources Recovery Facility and Ashfill
Built out Capacity in Tons	23,208,000	13,526.000	8,060,000
Tons in Place (June 30, 2016)	17,547,000	11,984,000	5,765,000
Remaining Capacity in Tons	1,261,000	1,541,000	2,295,000
Last Year's Disposal	390,626	190,478	160,879
Tonnage (7/1/15 - 6/30/16)			
Estimated Average Disposal	400,800	183,900	168,500
Rate per Year in Tons			

Source: Miami-Dade County Department of Solid Waste Management, 2016; Landfill Capacity Analysis for DSWM Active Landfills, July 1, 2016.

There is sufficient capacity in Miami-Dade County landfills to meet the Town's needs for solid waste disposal for the short term and long term planning horizons.