

Comprehensive Annual Financial Report For the years ended December 31, 2019 and 2018

THE SEWERAGE AND WATER BOARD OF NEW ORLEANS, LOUISIANA



Cover: Our Sycamore Filter Gallery was completed in 1905 and is still in use today. As the river water enters the Carrollton Plant, the purification process begins. The Carrollton plant normally yields about 135 million gallons per day of finished water for the east bank of Orleans Parish. The Algiers Plant, which serves the predominantly residential west bank portion of the parish, purifies about 11 million gallons per day of water. Combined, the two plants treat approximately 54 billion gallons of water per year, removing 18,000 tons of solid material from the raw river water.

Comprehensive Annual Financial Report For The Years Ended December 31, 2019 and 2018

> Prepared by: FINANCE DEPARTMENT



Sewerage & Water Board of New Orleans

Our Mission & Vision

Our Mission

We serve the people of New Orleans and improve their quality of life by providing safe drinking water; removing waste water for safe return to the environment; and draining storm water to protect our community. Our team of experts do this reliably, continuously, and at a reasonable cost.

Our Vision

Our vision is to earn and hold the trust and confidence of our customers and community for reliable and sustainable water services; and to be a model utility in the water industry.

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INTRODUCTORY SECTION



Previous Comprehensive Annual Financial Reports (CAFR) displayed the progress of our Water Hammer Mitigation Program. The two new elevated water towers now stand at the Carrollton Water Plant with a combined capacity of 400 million gallons of water.



"RE-BUILDING THE CITY'S WATER SYSTEMS FOR THE 21ST CENTURY"

Sewerage & Water Board of New ORLEANS

625 ST. JOSEPH STREET NEW ORLEANS, LA 70165 • 504-529-2837 OR 52-WATER www.swbno.org

August 18, 2020

TO: The Honorable LaToya Cantrell, President, and Members of the Sewerage and Water Board of New Orleans 625 St. Joseph Street New Orleans, LA 70165

We respectfully submit the enclosed Comprehensive Annual Financial Report (CAFR) for the Sewerage and Water Board of New Orleans (SWBNO) for the years ended December 31, 2019 and 2018. This yearly report provides our Board of Directors, investors, customers, and the public at large with the utility's latest, most complete financial portrait.

It is our belief that the data, as presented, is accurate in all material respects. This report is designed to fairly present SWBNO's financial position and results of operation for the SWBNO Enterprise and Pension Trust Funds. Disclosures necessary to enable the reader to gain an understanding of SWBNO's financial activities are included.

SWBNO retained Postlethwaite & Netterville (P&N), a Professional Accounting Corporation, to serve as its independent auditor. P&N has issued an unmodified opinion on SWBNO's financial statements for the years ended December 31, 2019 and 2018. The independent auditors' report is located at the front of the Financial Section of this report.

THE COMPREHENSIVE ANNUAL FINANCIAL REPORT

The CAFR is organized in four sections:

Introductory Section: This section includes this letter of transmittal, as well as various governance, leadership and organizational charts. This transmittal letter is designed to complement the Management's Discussion and Analysis (MD&A) (see Financial Section) and should be read in conjunction with it.

Financial Section: This section includes the Independent Auditors' Report, the MD&A, basic financial statements, notes to financial statement, required supplementary information (RSI), and supplementary information. The MD&A is required by the Governmental Accounting Standards Board (GASB) that provides an overview and analysis of the basic financial statements.

Statistical Section: This section presents graphs and details that demonstrate financial trends and revenue and debt information as context for understanding SWBNO's overall financial health and operating capacity.

Supplemental Section: This section includes additional historical schedules.

The basic financial statements were prepared in accordance with U.S. Generally Accepted Accounting Principles (GAAP) and audited by independent certified public accountants retained by SWBNO. SWBNO is a component unit of the City of New Orleans as described in GASB Statement No. 61, *The Financial Reporting Entity: Omnibus – an amendment of GASB Statement No. 14 and No. 34 and GASB Codification Section 2100.*

Pursuant to LA Revised Statues § 24:513 (A), SWBNO is required to have its financial position examined and audited each year by licensed certified public accountants.

SWBNO's management is responsible for the reliability of the information contained in this report, based upon a comprehensive framework of internal control that is established for this purpose. The internal control framework is designed to give reasonable assurance that cost on internal controls should not exceed the benefits derived from the controls and that the financial statements are free from material misstatements. The internal control over financial reporting is a process designed by, or under the supervision of, SWBNO's executive director, chief financial officer, and finance administrator, and effected by the Board of Directors, management, and other personnel to provide reasonable assurance regarding the reliability of financial reporting in accordance with GAAP.

PROFILE OF SEWERAGE AND WATER BOARD OF NEW ORLEANS

SWBNO is a public utility that owns, maintains and operates New Orleans' vast networks of water and sewer mains, as well as the components of the city's drainage system that are 36" or greater in diameter (primarily drainage canals).

The reporting entity includes the Enterprise Fund and the Pension Trust Fund. The Enterprise Fund is composed of three (3) independent systems: Water, Sewerage, and Drainage.

SWBNO was founded in 1899 by state law and merged with the New Orleans Drainage Commission in 1903 to eventually assume its present-day mission: To serve the people of New Orleans and improve their quality of life by providing safe drinking water; removing waste water for safe return to the environment; and draining storm water to protect the community. Its team of experts does this reliably, continuously, and at a reasonable cost. SWBNO's vision is to earn and hold the trust and confidence of our customers and community for reliable and sustainable water services, and to be a model utility in the water industry.

Today, SWBNO serves 364 square miles of the City of New Orleans, plus providing drainage services to approximately 2,550 acres of neighboring Jefferson Parish. Its drinking water comes from the Mississippi River. It operates a drainage system of approximately 280 miles of open and underground canals and 24 pumping stations that house 120 drainage pumps. The drainage and water systems are powered by a combination of modern, 60-Hertz electricity and self-generated, 25-Hertz power that dates to the early 20th century. SWBNO is under federal consent decree to overhaul New Orleans sewerage system. This effort is scheduled to be completed in 2025. Sewer operations are managed by an independent contractor.

This utility operates independently of city government under the oversight of its 11-member Board of Directors. Effective Jan 1, 2019 under state law, this governing body consists of:

- The mayor of the City of New Orleans, serving as president;
- A member of the City Council's Public Works, Sanitation and Environmental Committee or his/her designee;
- Two members of the city's debt manager, the Board of Liquidation, City Debt;
- Seven citizen members appointed by the mayor with consent of the City Council.
- Retired civil engineer (vacant as of December 31, 2019)

Citizen members must represent each of New Orleans' five City Council districts; two must be considered consumer advocates; and one must be a retired civil engineer. The Board of Directors is responsible for, amongst other things, passing resolutions, adopting the budget, appointing committees and hiring the Board's Executive Director and General Superintendent. The Executive Director is responsible for carrying out the policies and resolutions of the Board and overseeing day-to-day operations.

The water and sewerage systems, and overall administration of SWBNO, are primarily funded through services rates, which are approved by the New Orleans City Council. Maintenance, operations and improvements to the drainage system are primarily financed through three ad valorem taxes set at rates of 3 mills, 6 mills and 9 mills, which expire in 2046, 2027, and 2032, respectively. The SWBNO employs approximately 1,500 people and manages a \$239-million pension trust fund.

ECONOMIC GROWTH AND OUTLOOK

One of the last major ports before the Mississippi River empties into the Gulf of Mexico, New Orleans is a central hub for commerce and an economic engine for the broader Gulf Coast region. It is also a large nexus for rail and truck routes. The recent 2019 mid-year estimates revealed the City of New Orleans experienced a slight decrease in population of 862 in 2019, compared to 391,006 in 2018. In addition, projections developed for our ongoing consent decree program indicate that citywide population could decrease an additional 13% by 2038 based on recent property-level occupancy trends analysis from 2010 to the fall of 2018, as well as analysis of planned residential projects and major institutional expansions throughout the City.

Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2019 2019 Population Estimates

Population	
Population estimates, July 1, 2019, (V2019)	390,144
Population estimates, July 1, 2018, (V2018)	391,006
Population estimates base, April 1, 2010, (V2019)	343,828
Population estimates base, April 1, 2010, (V2018)	343,828
Population, percent change - April 1, 2010 (estimates base) to July 1, 2019, (V2019)	13.5%
Population, percent change - April 1, 2010 (estimates base) to July 1, 2018, (V2018)	13.7%
Population, Census, April 1, 2010	343,829

Source: U.S. Census Bureau, Population Division

New Orleans has a diverse economy with the main sectors being energy, advanced manufacturing, international trade, healthcare and tourism. It is the home to internationally known universities and hospitals. Some of the largest companies in New Orleans include: Ochsner Health System, Tulane University, Woodward Design + Build, Entergy Corporation, Hancock Whitney Corporation, Boh Bros Construction, and Superior Energy Services, Inc.

Tourism still remains one of the top revenue generators and contributes almost 43% of the city's sales taxes paid by visitors. Tourism largely led the post-Katrina economic recovery and brings in an average of \$9 billion per year. Millions of visitors come to New Orleans each year, supporting hundreds of restaurants, hotels and tourism-related businesses and employing tens of thousands of workers.

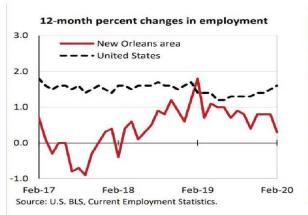
The New Orleans metropolitan area unemployment rate (4.5%) was lower than the State of Louisiana's rate (5.2%) and higher than the national rate (3.5%) at the end of 2019 according to the US Department of Labor. The unemployment rate for the New Orleans experienced and upward and downward trend throughout all four quarters of 2019.

Date	National Unemployment Rate	Louisiana Unemployment Rate	New Orleans Unemployment Rate	New Orleans Unemployed
February 2020	3.5%	_	_	-
January 2020	3.6%	5.3%	4.6%	27,599
December 2019	3.5%	5.2%	4.5%	26,808
November 2019	3.5%	5.2%	4.3%	25,783
October 2019	3.6%	5.2%	4.1%	24,840
September 2019	3.5%	5.1%	4.0%	24,212
August 2019	3.7%	4.9%	4.0%	24,157
July 2019	3.7%	4.7%	4.0%	24,216
June 2019	3.7%	4.6%	4.0%	24,192
May 2019	3.6%	4.5%	4.1%	24,333
April 2019	3.6%	4.5%	4.2%	24,955
March 2019	3.8%	4.5%	4.4%	26,129

New Orleans, Louisiana Unemployment History

Source: U.S. BLS, Current Unemployment Statistics

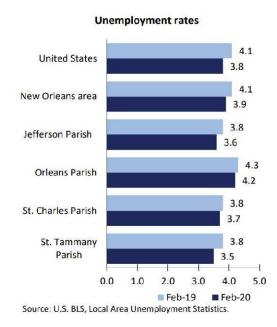
Over-the Year Changes in Employment on Nonfarm Payrolls and Employment by Major Industry Sector; U.S. Department of Labor, Bureau of Labor Statistics



New Orleans area employment (number in thousands)	Feb. 2020	Change from Feb. 2019 to Feb. 2020		
(number in mousanus)		Number	Percent	
Total nonfarm	586.1	1.6	0.3	
Mining and logging	4.4	0.2	4.8	
Construction	27.3	-2.0	-6.8	
Manufacturing	29.7	-0.6	-2.0	
Trade, transportation, and utilities	110.9	-1.8	-1.6	
Information	8.1	-0.9	-10.0	
Financial activities	30.3	0.0	0.0	
Professional and business services	77.1	1.1	1.4	
Education and health services	106.3	3.8	3.7	
Leisure and hospitality	93.8	1.9	2.1	
Other services	24.4	0.0	0.0	
Government	73.8	-0.1	-0.1	

Source: U.S. BLS, Current Employment Statistics.

Unemployment Rates for the Nation and Selected Areas; U.S. Department of Labor, Bureau of Labor Statistics



Average hourly wages in the New Orleans area are lower than the U.S. national average. Occupations that reported the highest hourly wage include human resource managers, accountants and auditors, and registered nurses. Occupations with the lower hourly wages include construction laborers, retail salespersons, fast food workers and cooks.

Occupation	New Orleans area	United States
All occupations	\$22.65	\$24.98
Human resources managers	48.60	60.91
Accountants and auditors	36.28	37.89
Registered nurses	31.33	36.30
Construction laborers	15.81	19.40
Retail salespersons	14.03	13.61
Cooks, fast food	9.84	10.89

Average hourly wages for selected occupations

Source: U.S. BLS, Occupational Employment Statistics, May 2018.

According to Bestplaces.net, the 2019 cost of living index for the New Orleans metropolitan area was slightly below the average of many other metropolitan/non-metropolitan areas. The costs of food and groceries, healthcare, and utilities trend lower than many cities such as Washington D.C.

	New Orleans, LA	Washington, DC	United States
<u>Overall</u>	96.3	152.1	100
Food & Groceries	99.2	114.1	100
<u>Health</u>	85.2	88.6	100
<u>Housing</u>	77.2	240.8	100
<u>Median Home Cost</u>	<u>\$178,500</u>	<u>\$556,700</u>	\$231,200
<u>Utilities</u>	87.3	106.0	100
Transportation	132.5	135.3	100
Miscellaneous	97.8	105.7	100

Cost of Living

100 = National Average (Below 100 means cheaper than the US average. Above 100 means more expensive.)

MANAGEMENT INITIATIVES

Throughout 2019, SWBNO leadership sought to secure creative financing solutions for New Orleans' longexisting infrastructure challenges. A landmark agreement known as the "Fair Share" deal was struck among SWBNO, the City of New Orleans, the State of Louisiana, and the hospitality industry to provide both onetime and recurring funds to SWBNO to improve its infrastructure. This package included \$50 million in one-time funding that helped secure a healthy financial position for the utility in 2019, as well as up to \$20 million in recurring funds to support identified drainage and infrastructure projects aimed at improving customers' quality of life.

SWBNO also sought and won access to a major federal water infrastructure loan to fund the full rehabilitation of New Orleans' sewer system in October 2019. Under the Water Infrastructure Financing and Innovation Act (WIFIA) program, the U.S. Environmental Protection Agency (EPA) chose SWBNO to apply for a low-interest, long-term loan – an effort that could yield up to \$111 million to help the utility make its 2025 federal deadline to completely restore the sewer system. It is expected that the loan will be closed in 2020 and the funds will be used to fund Sewer System Rehabilitation projects throughout the city over the next five years.

SWBNO also lobbied for and obtained the Louisiana State Bond Commission's approval for the additional necessary funding to complete critical sewer repairs. The commission's decision allowed SWBNO to borrow \$10 million from the federally funded Clean Water State Revolving Fund, which is administered by the Louisiana Department of Environmental Quality. The loan will carry a low interest rate of less than 1 percent. This new funding is critical for sewer repairs in the South Shore Basin, which is generally bounded by the Inner Harbor Navigational Canal, Lake Pontchartrain, Paris Road and Interstate 10 in New Orleans East.

As an ongoing effort to collaborate with our valued customers, a Customer Advisory Committee was created to develop a formal process that gives community members a voice within the utility's planning processes and decision-making structure. The Committee will help to guide SWBNO's Master Planning process and will also create a venue for staff to understand the community's needs and priorities so that the work we do reflects the values of the customers we serve.

FINANCIAL PLANNING

The SWBNO is approaching the final year of water and sewerage rate increases. To plan for the future and to ensure financial stability, an increase in SWBNO's water and sewer rates was approved by the New Orleans City Council on December 6, 2012 and made effective on January 1, 2013. SWBNO is mostly financed by user fees, which cover water and sewer services only. The approved rate plan covered an eight-year period, increasing 10 percent each year until its sunset in 2020. SWBNO has initiated a rate study in 2020 to assess the need for future rate changes.

As stated above, SWBNO also receives revenues from the three-(3) mill, six-(6) mill and nine-(9) mill ad valorem taxes, which are restricted exclusively for the drainage system.

General Operations

The change in net position for the year ended December 31, 2019 was an increase of approximately \$111.5 million, as opposed to approximately \$75.8 million increase for the year ended December 31, 2018. The Board's total operating revenues increased by 24.5% to approximately \$263.0 million due primarily to rate increases effective January 1, 2019 and improved customer billing. Total non-operating revenue increased by 46.2% to approximately \$86.4 million due primarily to \$28 million in one-time funding from the Fair Share program and approximately \$7.1 million from the revolving loan fund, offset by a \$10.4 million change in the provision for grants deemed uncollectible.

Budgetary Control

SWBNO maintains an internal budgetary control through the preparation and monitoring of an annual operating and capital budget for the Water, Sewerage, and Drainage funds. The financial statements of revenues, expenses, and changes in net assets, statement of net assets, and statements of cash flow are prepared for each system. Also, monthly budget reports are provided to assist each department level manager in fiscal decision making.

The 2020 approved operating budget of \$281.1 million is 4% greater than the 2019 approved fiscal budget of \$270.3 million. The Board has S405.1 million in outstanding senior lien debt: S5.9 million in Drainage Bonds, \$205.5 million in Sewer Revenue Bonds and \$193.7 million in Water Revenue Bonds. SWBNO has been issued an "A" and an "A-" rating from Standard & Poor's Ratings Services (S&P) for the sewer system and water system, respectively, and a "BBB+" for the water system and sewer system from the Fitch Ratings. In addition, the S&P and Fitch Ratings for Special Tax Bonds is "AA-" and "A+", respectively.

CAPITAL IMPROVEMENT PROGRAM

SWBNO has a 10-year capital improvement program that factors in resources and expenses for the repair, rehabilitation, and replacement of water, sewer, and drainage capital assets. The program provides the utility with the ability to compare the impact of future stability over the next ten years. This includes capital improvements to infrastructure for the completion of projects from Hurricane Katrina repairs, for ongoing rehabilitation, to handle anticipated growth, to maintain compliance with regulatory requirements, technology changes, and to bring the system into the 21st century.

At the close of 2019, there were 26 active contracts for capital projects, with a total value of S156.8 million. There are also several active emergency contracts, which are those not anticipated in the capital improvement program, including:

2019 – Turbine 5 Explosion: On December 14, 2019 an explosion occurred in Turbine-Generator 5 at the SWBNO's Carrollton Water Plant. The explosion injured nearby personnel and caused significant damage to and around the turbine. The General Superintendent immediately declared an extreme emergency to provide for the safety of personnel, establish containment and stabilization of the power house, begin an assessment of the damage, investigate the cause of the incident, and address the risk to the water, sewer, and drainage systems powered by the Turbine-Generator. The emergency declaration will also extend to the potential replacement of the 20 Megawatts of generating capacity lost due to the explosion.

2017 - Temporary Generators At Carrollton Frequency Changer, Drainage Pumping Station (DPS) 4, Citrus DPS, Dwyer DPS, Grant DPS, Maxent DPS, Oleander DPS, Elaine DPS, And SPS A And Temporary A/C Units At Power House #1 And Plant Frequency Changer - Requisition No. EE 17-0006: \$5.5 million.

2016 - Emergency Declaration At River Intakes: \$1.1 million spent through 2019.

WATER SYSTEM MAJOR INITIATIVES

Below is a list of the major water system initiatives completed in 2019 and those that are still in progress:

Carrollton Water Purification Plant

- Construction of new filter backwash pump for Sycamore Filter Gallery completed.
- Construction and design of valves, actuators and controls at Sycamore Filter Gallery in progress.
- Design of new sludge line to the Mississippi River in progress.
- Design of new chemical bulk storage and feed facility completed.
- Design of Resiliency Complex including hardening of Engineering Building, rehabilitation of Head House Facility and new Infill Building completed.
- Design for the demolition to basins C7 and C8 completed.
- Design of improvement to Claiborne Ave Pumping, Panola and High Lift Stations completed.
- Conceptual study of new electrical substation on the west side of the facility completed.
- Development of a Power Master Plan that includes recommendations for construction of a new Entergy substation on SWBNO property, a back-up power generation facility that includes new technology machinery and static frequency converters, new and upgraded power distribution feeders, and conversion of pump motors from 25 hertz to standard 60 hertz completed.
- Design of the repairs to the fender system at New River and Oak St Raw Water Intake Structures in progress.
- Construction of 2M gallon water towers and associated piping completed.

Algiers Water Purification Plant

- Design of water storage tank mixing in progress.
- Improvements to the Algiers Water Plant in progress including replacement of Clarifier 1, improvements to Clarifiers 2,3, and 4, a new flourosilicic acid storage and feed system, and SCADA system under construction.
- Staff design of filter media replacement and repair to valves and actuators in progress.

Water Distribution System

- Repairs and improvements to the Michoud Water Tank completed.
- Construction of secondary chlorination station in Venetian Isles completed.
- Ongoing coordination with the Department of Public Works to rehabilitate water mains in association with the Joint Infrastructure Recovery Roads Program and other roadway rehabilitation.
- Ongoing management of twenty-two engineering consultants designing water main replacement projects for approximately sixty-two neighborhoods.

Water Pumping and Power

- Refurbishment of Steam Turbine Generator No. 4 completed.
- Replacement of various 25Hz power distribution cables in progress.
- Construction of emergency fuel storage improvements completed.
- Refurbishment and repairs of boilers 1-6 in progress.
- Design of new boiler controls, deaerators, piping, and SCADA completed.
- Replacement of 25Hz pumps, motors, electrical components, piping, flow meters and valves associated with Oak St Raw Water Intake Station in progress.
- Conversion of one distribution pump from steam turbine to 60 Hz motor.
- Design of new VFDs and motors for distribution pumps in progress.

SEWER SYSTEM INITIATIVES

Below is a list of the major sewer system initiatives completed in 2019 and those that are still in progress:

Sewerage Pumping Stations

- Design of structural improvements to SPS A and Station D completed. Construction in progress.
- Construction of new Sewer Pumping Station No. 8 completed.
- Design of catch-all improvements of various sewage pumping stations completed.

Wastewater Treatment Plants

- Construction of Phase 2 Electrical Improvements completed.
- Construction for the installation of the sludge dryer in progress
- Design for a new 1000 HP effluent pump completed
- Preliminary design of a new 66" effluent discharge line to the Mississippi River in progress

DRAINAGE SYSTEM INITIATIVES

Below is a list of the major drainage system initiatives completed in 2019and those that are still in progress:

Drainage Pumping Stations

- Construction of permanent emergency generators at five underpass pumping stations completed.
- Design of permanent emergency generators at three additional underpass stations completed.
- Rehabilitation of the Broad St Underpass Station in progress.
- Construction of the three new lakefront pumping stations (17th, Orleans & London) completed and operated by SLFPA-E.
- Construction of anti-siphon mechanisms at Drainage Pumping Station 1 completed.
- Construction of anti-siphon mechanisms at Drainage Pumping Station 4 in progress.
- Rehabilitation of Pumps C, D, and E at Drainage Pumping Station 4 completed.
- Additional SCADA instrumentation purchase and install in progress.

<u>Canals</u>

- Construction of Florida Ave Canal Phases II/III from Peoples Ave is 95% complete.
- Construction of Florida Ave Canal Phase IV is 60% complete.
- Design of General DeGaulle Canal Improvements from Shirley Dr to Holiday Dr is in progress.

OTHER FINANICAL INFORMATION AND SUBSEQUENT EVENTS

SWBNO is pursuing a number of priority projects in 2020:

Advanced Metering Infrastructure: As of the submission of this letter, SWBNO has selected a Project Manager for a four-year, two-phase effort to bring Automated Metering Infrastructure (AMI) to its customers. AMI will benefit both SWBNO and its ratepayers in numerous ways, including generating real-time, accurate billing information, reducing estimated readings and re-billing costs, reducing billing errors and disputes, preventing tampering and theft, and promoting energy conservation and customer savings with time-of-use consumption. The project will be funded in part with Fair Share dollars.

New Financial System: SWBNO released an RFP for a new Financial Software System and Implementation. The purpose of this RFP is to purchase a financial system that interfaces with Microsoft Great Plains (GP) and CSM software systems. The financial system will incorporate the Procurement and Financial aspect of the SWBNO as well as the implementation. This software will provide for real-time accounting transactions, financial analysis, and efficient processes.

Customer Service Management Upgrade: SWBNO's staff worked closely with Cogsdale to upgrade our CSM billing system. This upgrade was completed in mid-June and will enhance customer service and bill collections by making the system more user-friendly and efficient.

Sewer Bond Sales: As part of its financial plan to meet the match requirements of the WIFIA loan and to fund additional sewer-related projects, SWBNO issued \$10.2 million in sewer bonds in June 2020. The terms of the issuance require principal payments beginning in 2022. SWBNO anticipates going back to the bond market in the fall for additional sewer enterprise funds.

On March 11, 2020, the World Health organization declared the novel strain of coronavirus (COVID-19) a global health pandemic and recommended containment and mitigation measure worldwide. Many water utilities and municipalities around the country are experiencing significant impacts as a result of COVID-19. SWBNO has closely monitored its revenue intake and cashflow for the past several months. Because revenue exceeded projected amounts for the first quarter, the impact on cashflow has been less than anticipated. Nevertheless, we are taking precautionary measures such as limiting new hires and suspending non-critical projects as our local economy recovers. We also have developed a Customer Care Plan, which includes automatic payment plans and suspension of late fees, to help our customers pay their bills and promote steady collections through the rest of the year and into 2021.

ACKNOWLEDGEMENTS

The preparation of this report could not have been accomplished without the efficient and dedicated services of the entire staff of SWBNO, and particularly the Finance Administration and Internal Audit departments.

The Board has many assets, but none more valuable that its employees. Of special note and deserving of recognition for service with distinction is former Finance Administrator Rosita Thomas, who recently retired after thirty-nine (39) years of service. We sincerely thank Ms. Thomas for her leadership, dedication and contributions to the Board – and we wish her well!

We also extend a special acknowledgement to all members of the Board of Directors for their unfailing support, leadership and high standard of professionalism in the management of SWBNO's finances. Of course, a special thanks goes out to the President of the Board, Mayor Latoya Cantrell, Governor John Bel Edwards, and our hospitality partners who played a vital role in obtaining much needed funding for SWBNO as we look toward rebuilding a strong infrastructure for the citizens and visitors of New Orleans.

Because of the dedication of its employees, SWBNO received the Government Finance Officers Association of the United States and Canada (GFOA) Certificate of Achievement for Excellence in Financial Reporting for past submissions of its Comprehensive Annual Financial Report (CAFR) for thirty-five (35) of the past thirty-eight (38) years. This Certificate of Achievement is a prestigious national award-recognizing conformance with the highest standards for preparation of state and local government financial reports. In order to be awarded a Certificate of Achievement, a government unit must publish an easily readable and efficiently organized CAFR whose contents conform to program standards. Such CAFR must satisfy both generally accepted accounting principles and applicable legal requirements. The award is valid for a period of one (1) year only. We believe that the current report conforms to the Certificate of Achievement program requirements, and we will submit this CAFR to the GFOA.

SWBNO hereby submits its Comprehensive Annual Financial Report for the fiscal year ended December 31, 2019.

Respectfully submitted,

Ghassan Korban, Executive Director

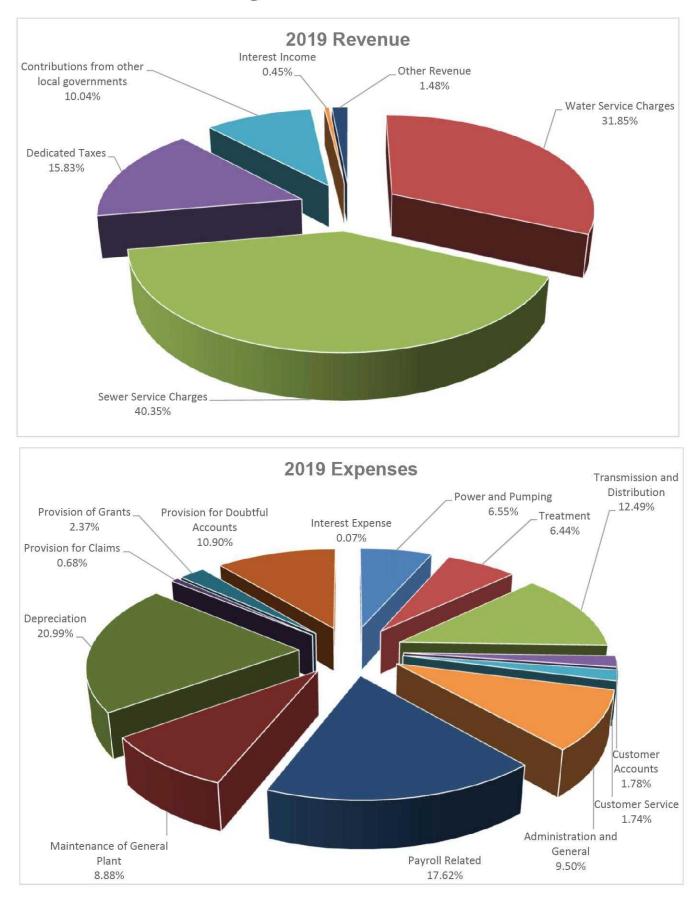
FINANCE DEPARTMENT

Chief Accountant

Rona M. Harris Chief Accountant

.aTressia Matthews Chief Accountant

Sewerage and Water Board of New Orleans



SEWERAGE AND WATER BOARD OF NEW ORLEANS BOARD OF DIRECTORS

December 31, 2019

Mayor Latoya Cantrell	President
Dr. Tamika Duplessis	President Pro-Tem/District E
Lynes Sloss	Board of Liquidation
Ralph Johnson	Board of Liquidation
Joseph E. Peychaud	Consumer/Community Advocate
Janet Howard	Consumer/Community Advocate
Alejandra Guzman	District A
Maurice Sholas	District C
Robin Barnes	District B
Jay H. Banks	Councilmember

COMMITTEES OF THE SEWERAGE AND WATER BOARD OF NEW ORLEANS

December 31, 2019

BOARD OF DIRECTORS

MAYOR LATOYA CANTRELL, President Dr. TAMIKA DUPLESSIS – President Pro -Tem ROBIN BARNES JAY H. BANKS MAURICE G. SHOLAS, MD. PHD

JOSEPH PEYCHARD ALEJANDRA GUZMAN JANET HOWARD

BOARD OF TRUSTEES

T ALEJANDRA GUZMANDR. VACANT, DISTRICT D JANET HOWARD LYNES SLOSS

MAYOR LATOYA CANTRELL, Chairperson TAMIKA DUPLESSIS, President Pro -Tem JAY H. BANKS RALPH JOHNSON MAURICE G. SHOLAS, MD, PHD LATRESSIA MATTHEWS HAROLD HELLER

AUDIT COMMITTEE

DR. TAMIKA DUPLESSIS, - Chairperson JOSEPH PEYCHARD ALEJANDRA GUZMAN LYNES SLOSS VACANT, DISTRICT D

RALPH JOHNSON

ROBIN BARNES JOSEPH PEYCHARD CHANTE' BIVENS CHRISTOPHER BERGERON

ROBIN BARNES

FINANCE AND ADMINISTRATION COMMITTEE

JANET HOWARD

ROBIN BARNES

JAY H. BANKS

ALEJANDRA GUZMAN

CHANTE BIVENS

LYNES SLOSS

JAY H. BANKS

INET HOWARD

ALEJANDRA GUZMAN

LYNES SLOSS, - Chairperson

RALPH JOHNSON

JOSEPH PEYCHARD

MAURICE G. SHOLAS, MD, PHD

GOVERNANCE COMMITTEE

RALPH JOHNSON, – Chairperson JANET HOWARD LYNES SLOSS

JAY H. BANKS

PENSION COMMITTEE

JOSEPH_PEYCHARD – Chairperson RALPH JOHNSON CHRISTOPHER BERGERON HAROLD HELLER

MAURICE G. SHOLAS, MD, PHD LATRESSIA MATTHEWS

STRATEGY COMMITTEE

ROBIN BARNES – Chairperson DR. TAMIKA DUPLESSIS JANET HOWARD

MAURICE G. SHOLAS, MD, PHD

OPERATIONS COMMITTEE

JANET HOWARD-Chairperson DR. TAMIKA DUPLESSIS JOSEPH PEYCHARD MAURICE G. SHOLAS, MD, PHD

RUDD & WISDOM, ACTUARY

I-15

SEWERAGE AND WATER BOARD OF NEW ORLEANS EXECUTIVE STAFF

December 31, 2019

EXECUTIVE DIRECTOR

Ghassan Korban

CHIEF OF STAFF

Christy Harowski

GENERAL SUPERINTENDENT- CONSTRUCTION/OPERATIONS

Robert Turner

CHIEF OF COMMUNICATIONS

Richard Rainey

CHIEF FINANCIAL OFFICER

Yvette Downs

CHIEF ADMINISTRATIVE OFFICER

David Callahan

SPECIAL COUNSEL

Yolanda Grinstead

CHIEF OF CUSTOMER SERVICE

VACANT

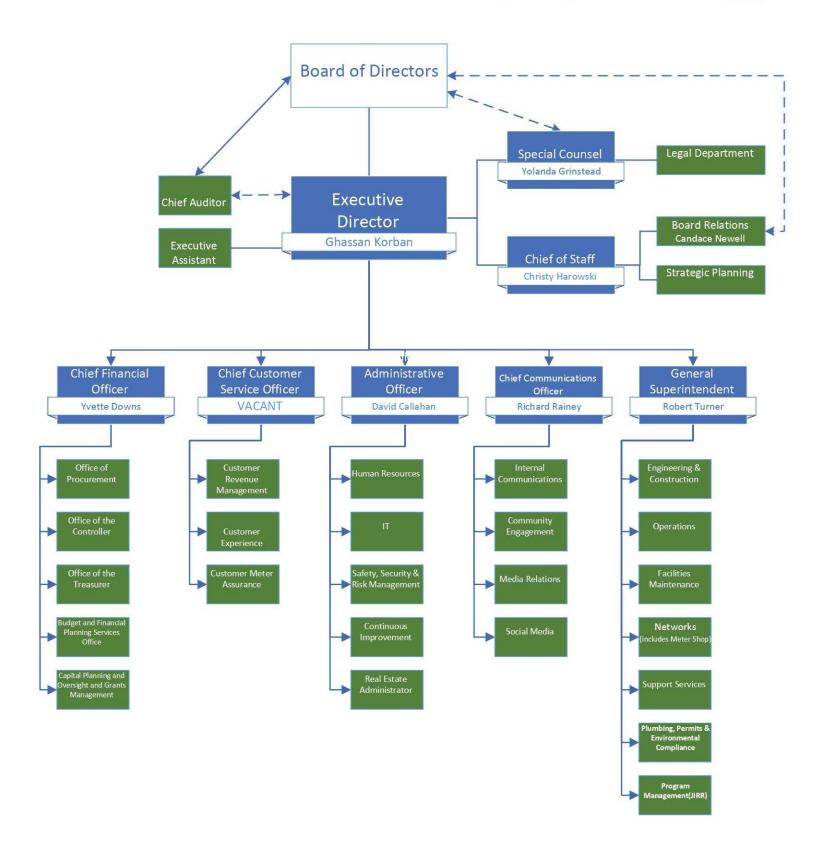
CHIEF AUDIT EXECUTIVE

VACANT

SEWERAGE AND WATER BOARD

Utility-Wide Organizational Chart

OF NEW ORLEANS



FINANCIAL SECTION



Our team works around the clock to make sure we continue to provide essential services. Here in Central Control, our employees are responsible for the delivery of an adequate supply of board- generated electrical power, the continuous monitoring of the operational status of all electrical switchgear and the testing of related electrical feeders and equipment.



A Professional Accounting Corporation

INDEPENDENT AUDITORS' REPORT

Members of the Board of Directors Sewerage and Water Board of New Orleans

Report on the Financial Statements

We have audited the accompanying financial statements of the Sewerage and Water Board of New Orleans (the "Board"), comprised of its business type activities and its fiduciary fund, as of and for the years ended December 31, 2019 and 2018, and the related notes to the financial statements, which collectively comprise the Board's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.



Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities and the fiduciary fund of the Board, as of December 31, 2019 and 2018, and the respective changes in financial position, and, where applicable, cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matters

COVID-19

As discussed in Note 20 to the financial statements, the Board was impacted by disruptions in the economy and business operations associated with the coronavirus ("COVID-19") pandemic. Our opinion is not modified with respect to this matter.

Liquidity

As discussed in Note 17 to the financial statements, the Board's Drainage System has incurred significant increases in expenditures which has negatively impacted the liquidity of the Drainage System. Management's evaluation of the events and conditions and management's plans to mitigate those matters are also described in Note 17. Our opinion is not modified with respect to this matter.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages II-4 through II-21 and the schedules presented on pages II-75 through II-77 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audits were conducted for the purpose of forming opinions on the financial statements that collectively comprise the Board's basic financial statements. The Introductory section, Schedules 1 through 7, the Statistical Information section, and Supplementary Information section are presented for purposes of additional analysis and are not a required part of the basic financial statements.



Schedules 1 through 7 are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedules 1 through 7 are fairly stated, in all material respects, in relation to the financial statements as a whole.

The Introductory, Statistical, and Supplemental sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated August 18, 2020, on our consideration of the Board's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Board's internal control over financial reporting and compliance.

Postlethwaite & Netteville

New Orleans, Louisiana August 18, 2020

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

The following Management Discussion and Analysis provides an overview of the financial performance of the Sewerage & Water Board of New Orleans' (the Board) for the fiscal years that ended December 31, 2019 and 2018. We encourage readers to consider the information presented here in conjunction with the additional information that we have furnished in our letter of transmittal. The Board's financial statements follow this section.

FINANCIAL HIGHLIGHTS

The Board adopted a financial plan for 2011 through 2020 that resulted in improved debt service coverage, increased funding for operations and maintenance, and full funding for the capital improvement programs. This financial plan was updated in 2016 to cover 2017 through 2020.

Recovery from Hurricane Katrina, the resulting flooding and an ongoing consent decree program continued to have significant impacts on operations and capital activities during 2019. Repairs and replacements to the water, sewerage, and drainage systems, and rehabilitation and replacement of buildings will continue through 2025.

On August 5, 2017, New Orleans experienced a significant storm event resulting in localized flooding. In response, an investment was made in the emergency repair and upgrade to various aspects of the drainage system that continued into 2018.

In May 2019, in an effort to replenish funding for the Board, Mayor LaToya Cantrell led the charge to obtain \$50 million in one-time funding to support various operations and capital needs of the Board. During 2019, the Board received \$28 million in one-time funding through the Fair Share program. In addition, the Mayor was able to secure ongoing funding under House Bills 522, 617 & 43 which is anticipated to result in \$20 million to \$26 million in recurring tax revenue.

Also in 2019, \$127,550 was borrowed on a \$10 million funding obtained through the Louisiana Clean Water State Revolving Fund, administered through the Louisiana Department of Environmental Quality (LDEQ) for critical sewer repairs.

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

Enterprise Fund

The major highlights in the Board's enterprise fund were as follows:

<u>2019</u>

- The SWBNO's total assets and deferred outflows totaled \$3.6 billion in 2019 compared to \$3.5 billion in 2018, an increase of 2.1%, while net position totaled \$2.4 billion in 2019 compared to \$2.2 billion in 2018, an increase of 5.0%.
- Revenues from Water and Sewer services increased by approximately S51.7 million from 2018 to 2019, to a total of approximately S263.0 million for the year ended December 31, 2019.
- Total operating expenses increased in 2019 by \$3.3 million, or 1.1% compared to 2018.
- Total assets and deferred outflows increased \$72.6 million, or 2.1% from 2018 to 2019.
- For the year ended December 31, 2019, the Board had total outstanding senior lien municipal debt of \$405.1 million, which includes \$5.9 million in Drainage bonds, \$205.5 million in Sewer Revenue Bonds, and \$193.7 million in Water Revenue Bonds.
- The Board's additions to its major systems approximated \$173.8 million.
- The Southeast Louisiana (SELA) drainage system project, a major upgrade by the Corps of Engineers, resulted in additions of approximately S47.8 million to work in progress during the year.
- Federal Emergency Management Agency (FEMA) Disaster Public Assistance grants revenues totaled approximately \$4.8 million and Hazard Mitigation grants totaled approximately \$15.4 million.

<u>2018</u>

- The SWBNO's net position totaled \$3.5 billion in 2018, an increase of 3.7% compared to 2017.
- Revenues from Water and Sewer services increased by approximately \$3.4 million from 2017 to 2018, for a total of approximately \$211.2 million for the year ended December 31, 2018.
- Total operating expenses decreased in 2018 by \$20.1 million, or 6.4% compared to 2017.
- Total assets increased \$124.7 million, or 3.7% from 2017 to 2018.
- For the year ended December 31, 2018, the Board had total outstanding senior lien municipal debt of \$421.9 million, which includes \$7.7 million in Drainage bonds, \$216.9 million in Sewer Revenue Bonds, and \$197.3 million in Water Revenue Bonds.
- The Board's additions to its major systems approximated \$253.3 million.
- The Southeast Louisiana (SELA) drainage system project, a major upgrade by the Corps of Engineers, resulted in additions of approximately S57.1 million to work in progress during the year.
- Federal Emergency Management Agency (FEMA) Disaster Public Assistance grants revenues totaled approximately \$13.0 million and Hazard Mitigation grants totaled approximately \$31.1 million.

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

Pension Trust Fund

The major highlights in the Board's fiduciary fund were as follows:

<u>2019</u>

The net appreciation of the fair value of investments was S32.7 million in 2019 compared to a net depreciation of \$8.5 million in 2018. The net position restricted for pension benefits increased by S24.4 million during 2019 to S239.7 million at December 31, 2019.

<u>2018</u>

The net depreciation of the fair value of investments was \$8.5 million in 2018 compared to a net appreciation of \$22.5 million in 2017. The net position restricted for pension benefits decreased by \$20.0 million during 2018 to \$215.3 million at December 31, 2018.

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MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

OVERVIEW OF THE FINANCIAL STATEMENTS

This financial report consists of five parts: management's discussion and analysis (this section), the financial statements, the notes to the financial statements, required supplementary information, and other supplementary information.

Government-wide Financial Statements – Enterprise Fund

The Board's principal activities of providing water, sewerage, and drainage services are accounted for in a single proprietary fund – the enterprise fund. Enterprise funds are used to report business activities. Since the enterprise fund is the Board's single activity, its financial statements are presented as the Board's government-wide financial statements.

The financial statements provide both long-term and short-term information about the Board's overall financial status. The financial statements also include notes that explain some of the information in the financial statements and provide more detailed data. The statements are followed by a section of required supplementary information and other supplementary information that further explain and support the information in the financial statements.

The Board's financial statements are prepared on an accrual basis in conformity with accounting principles generally accepted in the United States of America (GAAP) as applied to government units. Under this basis of accounting, revenues are recognized in the period in which they are earned, expenses are recognized in the period in which they are incurred, and depreciation of property, plant, and equipment is recognized in the Statements of Revenues, Expenses, and Changes in Net Position. All assets and liabilities associated with the operation of the Board are included in the Statements of Net Position.

The Statement of Net Position presents financial information on all of the Board's assets, liabilities, and deferred inflows/outflows of resources, with the difference reported as net position. Over time, increases and decreases in net position may serve as a useful indicator of whether the financial position of the Board is improving or deteriorating.

Fund Financial Statements – Pension Trust Fund

The Board's fiduciary fund financial statements consist of its pension trust fund. As a fiduciary fund, the pension trust fund is held for the benefit of employees and retirees of the Board. The pension trust fund is not reflected in the government-wide financials because the resources are not available to the Board for its activities. The accounting for the pension trust fund is much like that used by the enterprise fund.

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

FINANCIAL ANALYSIS OF THE BOARD

ENTERPRISE FUND

2019 Net Position

The Board's total assets and deferred outflows at December 31, 2019 were approximately \$3.6 billion, a 2.1% increase from December 31, 2018 (see Table A-1).

	Table A-	1				
werage			f New Orle ans			
	Net Positi	on				-
					Increase	Increase
	2019		2018	┝	(Decrease)	(Decrease)
\$	129.867.392		\$ 150.478.786		\$ (20.611.394)	-13.7%
	49,943,476		69,484,786			-28.1%
	3.318,295,115		3,208,862,077		109,433,038	3.4%
	12,845,142		7,478,739		5.366,403	71.8%
	3,510,951.125		3,436,304,388		74,646.737	2.2%
	46,121,097		48,123,085		(2,001.988)	-4.2%
	46,121,097		48,123,085	t F	(2,001.988)	-4.2%
\$	3,557,072,222		\$ 3,484,427,473		\$ 72,644,749	2.1%
\$	114.879.776		S 167,662,980		\$ (52,783,204)	-31.5%
	1,070,754.335		1,054,308,552		16,445,783	1.6%
	1,185,634,111		1,221,971,532		(36,337,421)	-3.0%
	15,170,059		17,653,950		(2,483,891)	-14.1%
	15,170.059		17,653,950		(2,483,891)	-14.1%
	2,631,802.752		2,543,371,049		88,431,703	3.5%
	43,839,618		46,042,585		(2,202,967)	-4.8%
	(319,374,318)		(344,611,643)		25,237,325	-7.3%
	2,356,268,052		2,244,801,991		111,466,061	5.0%
					[
\$	3,557,072,222		<u>\$ 3,484,427,473</u>		\$ 72,644,749	2.1%
	\$	Sector Sector Sector Sector 2019 \$ 129,867,392 49,943,476 3.318,295,115 12,845,142 3.510,951,125 46,121,097 46,121,097 46,121,097 \$ 3.557,072,222 \$ 114,879,776 1.070,754,335 1,185,634,111 15,170,059 15,170,059 15,170,059 15,170,059 15,170,059 2,631,802,752 43,839,618 (319,374,318) 2,356,268,052	Xet Position 2019 \$ 129,867,392 49,943,476 3.318,295,115 12,845,142 3.510,951,125 46,121,097 46,121,097 \$ 3,557,072,222 \$ 114,879,776 1,070,754,335 1,185,634,111 15,170,059 15,170,059 2,631,802,752 43,839,618 (319,374,318) 2,356,268,052	Set Position 2019 2018 \$ 129,867,392 \$ 150,478.786 49,943,476 69,484,786 3.318,295,115 3,208,862,077 12,845,142 7,478,739 3.510,951,125 3,436,304,388 46,121,097 48,123,085 46,121,097 48,123,085 \$ 3,557,072,222 \$ 3,484,427,473 \$ 114,879,776 \$ 167,662,980 1,070,754,335 1,054,308,552 1,185,634,111 1,221,971,532 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 2,631,802,752 2,543,371,049 43,839,618 (344,611,643) 2,356,268,052 2,244,801,991	Summerage & Water Board of New Orleans Net Position 2019 2018 \$ 129,867,392 \$ 150,478,786 49,943,476 69,484,786 3.318,295,115 3,208,862,077 12,845,142 7,478,739 3.510,951,125 3,436,304,388 46,121,097 48,123,085 46,121,097 48,123,085 \$ 3,557,072,222 \$ 3,484,427,473 \$ 114,879,776 \$ 167,662,980 1,070,754,335 1,054,308,552 1,185,634,111 1,221,971,532 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 17,653,950 15,170,059 2,543,371,049 43,839,618 (344,611,643) (319,374,318) 2,244,801,991	Section Section Increase (Decrease) 2019 2018 Increase (Decrease) \$ 129,867,392 \$ 150,478,786 \$ (20,611,394) 49,943,476 69,484,786 (19,541,310) 3.318,295,115 3,208,862,077 109,433,038 12,845,142 7,478,739 5,366,403 3,510,951,125 3,436,304,388 74,646,737 46,121,097 48,123,085 (2,001,988) 46,121,097 48,123,085 (2,001,988) \$ 3,557,072,222 \$ 3,484,427,473 \$ 72,644,749 \$ 114,879,776 \$ 167,662,980 \$ (52,783,204) 1,070,754,335 1,054,308,552 (36,337,421) 15,170,059 17,653,950 (2,483,891) 15,170,059 17,653,950 (2,483,891) 15,170,059 17,653,950 (2,483,891) 2,631,802,752 2,543,371,049 88,431,703 2,631,802,752 2,543,371,049 88,431,703 2,202,967) (319,374,318) (344,611,643) 25,237,325 2,356,268,052 2,244,801,991 111

The increase in total assets and deferred outflows of \$72.6 million resulted primarily due to a net increase in property, plant, and equipment of \$109.4 million. There was a decrease in restricted assets of about \$19.5 million as funds were used for construction projects. Current unrestricted assets decreased by \$20.6 million in 2019 mainly due to a decrease in outstanding customers receivable balance, net of related allowance, of \$6.3 million and a decrease in grants receivable of \$9.8 million.

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

Current liabilities decreased by S52.8 million primarily due to a decrease in accounts payable of S33.1 million, an S11.2 million decrease in the disaster reimbursement revolving loan fund, and more timely payments to vendors. Long-term liabilities increased by S16.4 million primarily due to an increase of \$36.1 million in total other post-employment benefits liability (total OPEB liability), offset by a decrease in net pension liability of S18.8 million due to changes in actuarial assumption and investment returns, and decreases in other long term liabilities. Deferred outflows of resources and deferred inflows of resources decreased by S2.0 million and S2.5 million, respectively, due to changes in the actuary's assumptions on investment returns and demographic factors related to the pension and OPEB liabilities.

2018 Net Position

The Board's total assets and deferred outflows at December 31, 2018 were approximately \$3.5 billion, a 3.7% increase from December 31, 2017 (see Table A-2).

		Table A-	_					
Sev	ve rage	& Water Boar		f New Orleans				
		Net Positi	on		r			
						Increase	Incr	
		2018		2017	4	(Decrease)	(Deci	rease)
Current unrestricted assets	\$	150,478,786		S 194,955,962		\$ (44,477,176)		-22.8%
Restricted assets		69,484.786		116,611,194		(47,126,408)		-40.4%
Property, plant, and equipment - net		3,208,862,077		3,019,092,797		189,769,280		6.3%
Other assets		7,478,739		12,291,080		(4,812,341)		-39.2%
Total assets		3,436,304,388		3,342,951,033]	93,353,355		2.8%
Deferred outflows of resources		48,123,085		16,734,173		31.388,912		187.6%
Total deferred outflows of resources		48,123,085		16,734,173	1	31,388,912		187.6%
Total assets and deferred outflows	\$	3,484,427,473		\$ 3,359,685,206		\$ 124,742,267		3.7%
Current liabilities	\$	167,662.980		S 148,037,878		\$ 19.625,102		13.3%
Long-term liabilities		1,054,308,552		1.040,787,916		13,520,636		1.3%
Total liabilities		1,221,971,532		1,188,825,794	1	33.145.738		2.8%
Deferred inflows of resources		17,653,950		1,867,968		15,785,982		845.1%
Total deferred inflows of resources		17,653,950		1,867,968	1	15,785,982		845.1%
Net position:								
Net investment in capital assets		2.543,371.049		2,405,347,069		138,023,980		5.7%
Restricted		46,042,585		46,606,340		(563,755)		-1.2%
Unrestricted	L	(344,611,643)		(282,961,965)		(61,649,678)		21.8%
Total net position		2,244,801,991		2,168,991,444		75,810,547		3.5%
Total liabilities, deferred inflows,								
and net position	\$	3,484,427,473		\$ 3,359,685,206		\$ 124,742,267		3.7%
		·						

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

The net increase in total assets of \$124.7 million resulted primarily due to a net increase in property, plant, and equipment of \$189.8 million. There was a decrease in restricted assets of about \$47.1 million as funds were used for construction projects. Current unrestricted assets decreased by \$44.5 million in 2018 mainly due to a decrease in unrestricted cash and cash equivalents of \$18.4 million and a decrease in grants receivable of \$37.5 million, offset by an increase in outstanding customers receivable balance, net of related allowance, of \$9.1 million.

Current liabilities increase by \$19.6 million primarily due to an increase in Accounts Payable of \$16.1 million as a result of increased capital expenditures during 2018 and timing of payments. Long-term liabilities increased by \$13.5 million primarily due to an increase in net pension liability of \$40.9 million due to changes in actuarial assumption and investment returns, offset by a decrease of \$19.0 million decrease in total other post-employment benefits liability (Total OPEB Liability) and a decrease of \$19.5 million in total outstanding bonds. Deferred outflows of resources and deferred inflows of resources increased by \$31.4 million and \$15.8 million, respectively, due to changes in actuary's assumption on investment returns and demographic factors related to the pension plan.

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MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

2019 Changes in Net Position

The change in net position for the year ended December 31, 2019 was an increase of approximately \$111.5 million, as opposed to approximately \$75.8 million for the year ended December 31, 2018. The Board's total operating revenues increased by 24.5% to approximately \$263.0 million due primarily to improved customer billing and rate increases effective January 1, 2019. Total non-operating revenue (expenses) increased by 46.2% to approximately \$86.4 million due primarily to \$28 million in one-time funding from the Fair Share program and approximately \$7.1 million from the revolving loan fund, offset by a \$10.4 change in the provision for grants deemed uncollectible. Capital contributions from federal grants and construction of Board property was approximately \$60.3 million resulting primarily from capital additions reimbursable under the FEMA Disaster Public Assistance and FEMA Hazard Mitigation grants of approximately \$7 million and \$15.4 million, respectively, approximately \$24.6 million of capital contributions from the Army Corps of Engineers, and approximately \$11.2 million of forgiveness of the Revolver account liability. The changes in net position are detailed in Table A-3; operating expenses are detailed in Table A-4.

	-	Fable A-3			Table A-3									
8				e w Orle ans										
Revenues, E	xpense	s and Chai	ige	in Net Position	Increase		Increase							
		2019		2018	(Decrease)		(Decrease)							
		2019		2010	(Decrease)		(Decrease)							
Operating revenues:														
Sales of water and delinquent fees	\$ 1	13,339,213		\$ 90,287,081	\$ 23,052,132		25.5%							
Sewerage service charges	1	43,686,137		114,614,157	29,071,980		25.4%							
Plumbing inspection and license fees		582,056		648.332	(66,276)		-10.2%							
Other revenue		5,351,115		5,687,203	(336,088)		-5.9%							
Total operating revenues	2	262,958,521		211.236,773	51,721,748		24.5%							
Operating expenses (Table A-4)	2	98,150,127		294.807,252	3,342,875		1.1%							
Operating loss		(35,191,606)		(83.570,479)	48,378,873		57.9%							
Non-operating revenues (expenses):														
Property taxes		55,888,326		54,651,624	1,236,702		2.3%							
Other taxes		594,985		594,532	453		0.1%							
Contributions from other local governments		35,839,141		-	35,839,141		N/A							
Federal noncapital grants		48,716		78,814	(30,098)		-38.2%							
Interest income		1,610,012		833,128	776,884		93.2%							
Interest expense		(228,235)		(248,469)	20,234		-8.1%							
Bond issuance costs		(127,550)		-	(127,550)		N/A							
Recovery (provison) for grants		(7,230,828)		3,183,641	(10,414,469)		-327.1%							
Total non-operating revenues (expenses)		86,394,567		59,093,270	27,301,297		46.2%							
Income before capital contributions		51,202,961		(24.477,209)	75,680,170		-309.2%							
Capital contributions		60,263,100		100.287,756	(40,024,656)		-39.9%							
Change in net position	1	11,466,061		75,810,547	35.655,514		47.0%							
Net position, beginning of year	2.2	244,801,991		2,168,991,444	75,810,547		3.5%							
Net position, end of year	\$ 2,3	356,268,052		\$ 2.244,801,991	\$ 111,466,061		5.0%							

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

		Table A-	4					
	Sewerage \delta	& Water Boar	d o	f Ne	ew Orle ans			
	(Operating Exp	per	tses				
							Increase	Increase
		2019			2018	((Decrease)	(Decrease
Power and pumping	\$	20,013.016		s	31,874,462	\$	(11,861,446)	-37.2
Treatment		19,688,222			22,958,975		(3.270,753)	-14.2
Transmission and distribution		38,176,467			46,530,018		(8,353,551)	-18.0
Customer accounts		5,431,786			5,243,276		188,510	3.6
Customer service		5,304,138			4,476,414		827,724	18.5
Administration and general		29,023,557			28,253,318		770,239	2.7
Payroll related		53,838,316			49,416,581		4,421,735	8.9
Maintenance of general plant		27,142,840			28,813,485		(1,670,645)	-5.8
Depreciation		64,156.230			63,501,190		655,040	1.0
Provision for doubtful accounts		33,306,195			20,942,217		12,363,978	59.0
(Recovery) provision for claims		2,069,360			(7,202,684)		9,272,044	-128.7
Total operating expenses	\$	298,150,127		\$	294,807,252	S	3,342,875	1.1

Total operating expenses increased by approximately \$3.3 million or 1.1% compared to 2018. The increase of \$12.4 million in provision for doubtful accounts was mainly due to customer collection issues in 2019, and the \$9.3 million increase in the provision for claims was mainly attributable to the impact of the 2018 revised reserve for general liabilities claims. In addition, transmission and distribution decreased by \$8.4 million, or 18% due to the Board having limited resources available for non-FEMA funded repairs and maintenance expenditures on the water, sewer, and drainage systems. Furthermore, payroll related expenses increased by approximately \$4.4 million or 8.9% due to an increase in total number of employees from approximately 1,400 at December 31, 2018 to approximately 1,500 at December 31, 2019.

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

2018 Changes in Net Position

The change in net position for the year ended December 31, 2018 was an increase of approximately S75.8 million, as opposed to approximately S34.8 million for the year ended December 31, 2017. The Board's total operating revenues increased by 2.8% to approximately S211.2 million due primarily to rate increases effective January 1, 2018. Total non-operating revenue increased by 23.5% to approximately \$59.1 million due to a recovery of \$3.2 million in grants previously determined to be uncollectable. Capital contributions from federal grants and construction of Board property was approximately \$100.3 million resulting primarily from capital additions reimbursable under the FEMA Disaster Public Assistance and FEMA Hazard Mitigation grants of approximately \$13.0 million and \$31.1 million, respectively, and approximately \$56.2 million of capital contributions by the Army Corps of Engineers. The changes in net position are detailed in Table A-5; operating expenses are detailed in Table A-6.

		Table A-5					
		Vater Board o					
Revenues , E	xpen	ises and Char	ige	in Net Position		r	
		2010		2015		Increase	Increase
		2018		2017	\vdash	(Decrease)	(Decrease)
Operating revenues:							
Sales of water and delinquent fees	\$	90,287.081		\$ 90,464,810	\$	(177,729)	-0.2%
Sewerage service charges		114,614,157		111.063,719		3,550,438	3.2%
Plumbing inspection and license fees		648,332		588,330		60,002	10.2%
Other revenue		5,687,203		3,451,274		2,235.929	64.8%
Total operating revenues		211,236,773		205,568,133		5,668.640	2.8%
Operating expenses (Table A-6)		294,807,252		314,911,503		(20,104,251)	-6.4%
Operating loss		(83,570,479)		(109,343,370)		25,772,891	23.6%
Non-operating revenues (expenses):							
Property taxes		54,651,624		55,422,813		(771,189)	-1.4%
Other taxes		594,532		593,424		1,108	0.2%
Federal noncapital grants		78,814		4,139		74,675	1804.2%
Interest income		833,128		786,643		46,485	5.9%
Interest expense		(248,469)		(50,158)		(198,311)	395.4%
Provison for grants		3.183,641		(8.906,949)		12,090,590	-135.7%
Total non-operating revenues (expenses)		59,093,270		47,849,912		11.243,358	23.5%
Income before capital contributions		(24,477,209)		(61,493,458)		37,016,249	-60.2%
Capital contributions		100,287,756		96,336,075		3,951,681	4.1%
Change in net position		75,810,547		34.842,617		40,967,930	117.6%
Net position, beginning of year		2,168,991,444		2,228,421,948		(59,430,504)	-2.7%
Change in accounting principle		-		(94,273,121)		94,273,121	N/A
Net position, end of year	s	2,244,801,991		\$ 2,168,991,444	\$	75,810,547	3.5%

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

		Table A-	6						
:	Sewerage &	k Water Boar	d o	fNe	w Orle ans				
		Operating Exp	per	ises		 			
							Increase	I	ncre as e
		2018			2017		Decrease)	(D	ecrease)
Power and pumping	\$	31,874,462		\$	36,552,523	\$	(4.678.061)		-12.8%
Treatment		22,958,975			25,651,907		(2,692,932)		-10.5%
Transmission and distribution		46,530,018			36,409,559		10,120,459		27.8%
Customer accounts		5,243,276			4,460,155		783,121		17.6%
Customer service		4,476,414			4,217,543		258,871		6.1%
Administration and general		28,253,318			24,343,704		3,909,614		16.1%
Payroll related		49,416,581			38,126,322		11,290,259		29.6%
Maintenance of general plant		28,813,485			26,100,182		2,713,303		10.4%
Depreciation		63,501,190			59,450,076		4,051,114		6.8%
Provision for doubtful accounts		20,942,217			14,326,711		6,615,506		46.2%
Provision for claims		(7,202,684)			45,272,821		(52,475,505)		-115.9%
Total operating expenses	\$	294,807,252		\$	314,911.503	\$	(20,104,251)		-6.4%

Total operating expenses decreased by approximately \$20.1 million or 6.4% compared to 2017. The increase of \$6.6 million in provision for doubtful accounts was mainly due to customer billing and collection issues in 2018, and a recovery in claims was mainly attributable to a \$11.0 million decrease in general liabilities claims in 2018 as the reserve for SELA project related claims was revised based on the final judgments during 2018. In addition, transmission and distributions increased by \$10.1 million due to repairs and maintenance expenditures on the water, sewer, and drainage systems. Furthermore, payroll related expenses increased by approximately \$11.3 million or 29.6% due to an increase in total number of employees from approximately 1,200 at December 31, 2017 to approximately 1,400 at December 31, 2018.

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

PENSION TRUST FUND

2019 Plan Net Position

The Board's total plan assets and net position of its pension trust fund at December 31, 2019 were approximately S240.9 million and S239.7 million, respectively, representing a 10.9% and 11.3% increase, respectively, from December 31, 2018 (see table A-7).

Plan net position increased by approximately \$24.4 million in 2019 primarily due to net appreciation in fair value of investments by approximately \$32.7 million. An increase of employee and employer contributions of \$2.4 million was offset by an increase of benefit payments of approximately \$1.9 million in 2019.

		Table A-	7							
	Sewerage & Water Board of New Orleans									
	Pensio	n Trust Fund	Ne	t Po	osition					
								Increase		Increase
		2019			2018		0	Decrease)		(Decrease)
Cash	\$	442,289		\$	1,456		\$	440,833		30277.0%
Investments		239,630,727			217,136,196			22,494,531		10.4%
Receivables		438,942			63,354			375,588		592.8%
Due from other fund		343,344			73,777			269,567		365.4%
Total assets		240,855,302			217,274,783			23.580,519		10.9%
Other liabilities		1,177.600			1,995,000			(817,400)		N/A
Total liabilities		1,177,600			1,995,000			(817,400)		100.0%
Plan net position	S	239,677,702		S	215,279.783		\$	24,397,919		11.3%

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

2018 Plan Net Position

The Board's total plan assets and net position of its pension trust fund at December 31, 2018 was approximately \$215.3 million, an 8.5% decrease from December 31, 2017 (see table A-8).

Plan net position decreased by approximately \$20.0 million in 2018 primarily due to net depreciation in fair value of investments by approximately \$8.5 million. An increase of employee and employer contributions of \$0.6 million was offset by an increase of benefit payments of approximately \$1.6 million in 2018.

		Table A-8	8							
	Sewerage & Water Board of New Orleans									
Pension Trust Fund Net Position										
								Increase		Increase
		2018	╞		2017		(Decrease)		(Decrease)
Cash	\$	1,456		\$	230,946		\$	(229,490)		-99.4%
Investments		217,136,196			234.711,857			(17,575,661)		-7.5%
Receivables		63,354			101,269			(37,915)		-37.4%
Due from other fund		73,777			240,245			(166,468)		-69.3%
Total assets		217,274.783	F		235,284,317			(18,009,534)		-7.7%
Other liabilities		1,995,000			-			1,995,000		N/A
Total liabilities		1,995,000			-			1,995,000		0.0%
Plan net position	S	215,279,783	ļ	S	235,284,317		\$	(20.004,534)		-8.5%

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

2019 Changes in Plan Net Position

Change in net position increased by \$44.4 million mainly attributable to a \$41.5 million net investment (loss) income change. The increase in net investment income in 2019 is due to stock market performance causing appreciation in fair value of the equity investments that account for approximately half of the investment portfolio of the pension trust fund.

		Table A-	9					
Se	werage &	a Water Boar	d o	f Ne	w Orle ans			
	Char	ige in Plan Ne	et F	?osif	ion	 		
						Increase		Increase
		2019			2018	(Decrease)	╞	(Decrease)
Additions:								
Contributions	\$	13,596,270		\$	11,186,923	\$ 2,409,347		21.5%
Net income (loss) on investments		33,662.791			(7,868,279)	41.531,070		-527.8%
Total additions		47,259.061			3,318,644	43,940,417		1324.0%
Deductions:								
Benefits		(20,438,403)			(18,565,085)	(1,873,318)		10.1%
Employee refunds		(481,801)			(355,206)	(126,595)		35.6%
Employee DROP contributions		(1,940,938)			(4,402,887)	2,461,949		-55.9%
Total deductions		(22,861,142)			(23,323,178)	462,036		-2.0%
Change in net position		24,397,919			(20,004,534)	44,402,453		-222.0%
Plan net position, beginning of year		215,279.783			235,284,317	(20,004,534)	_	-8.5%
Plan net position, end of year	\$	239.677.702		\$	215,279,783	\$ 24,397,919	F	11.3%

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

2018 Changes in Plan Net Position

Change in net position decreased by \$31.0 million mainly attributable to a \$31.2 million net investment (loss) income change. The decrease in net investment income in 2018 is due stock market performance near the end of 2018 causing depreciation in fair value of the equity investments that account for approximately half of the investment portfolio of the pension trust fund.

& Water Boar <u>nge in Plan Ne</u> 2018 11,186.923 (7.868.279)	et P		-	Increase (Decrease)	-	Increase (Decrease)
2018 11,186.923	-	2017			-	
11,186.923					-	
11,186.923	-			(Decrease)	-	(Decrease)
		¢ 11 705 214				
		¢ 11 705 214				
(7.868.279)				\$ (608,291)		-5.2%
		23,326,273		(31,194,552)		-133.7%
3,318,644		35,121,487	4	(31,802,843)		-90.6%
(18,565,085)		(16,974,995		(1.590,090)		9.4%
(355,206)		(438,134)	82,928		-18.9%
(4,402,887)		(6.780.302)	2,377,415		-35.1%
(23,323,178)		(24,193,431)	2	870,253		-3.6%
(20,004.534)		10,928,056		(30,932,590)		-283.1%
235,284,317		224,356,261		10,928,056		4.9%
215,279,783		\$ 235,284,317		\$ (20,004,534)		-8.5%
-	(18,565.085) (355,206) (4,402.887) (23,323,178) (20,004.534) 235,284,317	(18,565,085) (355,206) (4,402,887) (23,323,178) (20,004,534) 235,284,317	(18,565.085) (16,974,995) (355,206) (438,134) (4,402,887) (6.780,302) (23,323,178) (24,193,431) (20,004.534) 10,928,056 235,284,317 224,356,261	(18,565.085) (16,974.995) (355,206) (438.134) (4.402.887) (6.780.302) (23,323,178) (24.193.431) (20,004.534) 10.928.056 235.284.317 224.356.261	(18,565,085) (16,974,995) (1.590,090) (355,206) (438,134) 82,928 (4,402,887) (6,780,302) 2,377,415 (23,323,178) (24,193,431) 870,253 (20,004,534) 10,928,056 (30,932,590) 235,284,317 224,356,261 10,928,056	(18,565,085) (16,974,995) (1.590,090) (355,206) (438,134) 82,928 (4,402,887) (6,780,302) 2,377,415 (23,323,178) (24,193,431) 870,253 (20,004,534) 10,928,056 (30,932,590) 235,284,317 224,356,261 10,928,056

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

CAPITAL ASSET AND DEBT ADMINISTRATION

2019 Capital Assets

As of December 31, 2019, the Board had invested approximately \$4.42 billion in capital assets. Net of accumulated depreciation, the Board's net capital assets at December 31, 2019 totaled approximately \$3.32 billion. This amount represents a net increase (including additions and disposals, net of depreciation) of approximately \$109.4 million, or 3.4%, over December 31, 2018.

At December 31, 2019, the Board's budget for its ten-year capital improvements program totaled approximately \$3.0 billion, compared to approximately \$3 billion in 2018. The capital improvements program includes \$325 million in capital expenditures for the year ending December 31, 2020 and provides for the following activities:

- Continue Joint Infrastructure Recovery Road in conjunction with City of New Orleans Department of Public Works;
- Comply with regulatory requirements under the Sewer Consent Decree;
- Complete rehabilitation of Claiborne Pumping Station (Phase II) of Water Hammer project;
- Participate in drainage system improvements in coordination with SELA Program;
- Initiate Automated Meter Infrastructure project.

Due to certain regulatory and legislative changes, additional capital improvements will probably be required. Future capital improvement program expenditures may require the issuance of additional debt depending on the amount and timing of expenditures.

See Note 4 for detailed capital asset activity during 2019.

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

2018 Capital Assets

As of December 31, 2018, the Board had invested approximately \$4.24 billion in capital assets. Net of accumulated depreciation, the Board's net capital assets at December 31, 2018 totaled approximately \$3.21 billion. This amount represents a net increase (including additions and disposals, net of depreciation) of approximately \$192.3 million, or 6.4%, over December 31, 2017.

At December 31, 2018, the Board's budget for its ten-year capital improvements program totaled approximately \$3 billion, which includes \$166.7 million in capital expenditures for the year ending December 31, 2019 and provides for the following activities:

- Continue Joint Infrastructure Recovery Road in conjunction with City of New Orleans Department of Public Works;
- Comply with regulatory requirements under the Sewer Consent Decree;
- Complete second tower of Water Hammer project;
- Participate in drainage system improvements in coordination with SELA Program;
- Initiate Automated Meter Infrastructure project.

Due to certain regulatory and legislative changes, additional capital improvements will probably be required. Future capital improvement program expenditures may require the issuance of additional debt depending on the amount and timing of expenditures.

2019 Debt Administration

The Board continues to make its regularly scheduled payments on its bonds. During 2019, \$16.9 million in principal payments were made.

The Louisiana Department of Environmental Quality has loaned the Board up to \$9.0 million to fund construction of sewerage treatment works, implementing a management program under Section 1329 of the Water Quality Act of 1987, and developing and implementing a conservation and management plan under Section 1330 of the Federal Act. The outstanding balance is \$6.0 million at December 31, 2019.

The Costal Protection and Restoration Authority of Louisiana entered into an agreement with the Department of the Army for the Southeast Louisiana Flood Control Program. The United States Government has committed to 65% of the project costs and The Board is responsible for 35% of the project costs. At December 31, 2019, the accumulated amount due to the U.S. Government totaled approximately \$250.3 million. This amount is estimated based on the actual cost of construction incurred to date. Repayment of principal and interest is expected to start in 2020 and continued through 2051. Total payment for the project is estimated to be approximately \$250.3 million through 2051. The total cost of the project may increase in the upcoming years as additional construction costs continue to add to the project.

The City entered into an agreement with the Louisiana Department of Environmental Quality (LDEQ) whereby the LDEQ has committed to loan the Board S10 million to fund certain sewer main replacements and repairs. The loan is to be advanced in incremental amounts as project costs are incurred. Semi-annual interest and administrative fee payments begin in 2020. Annual principal payments are due beginning in 2021 and continuing through 2040. At December 31, 2019, the outstanding balance is \$127,550. See Note 6 for detailed long term debt activity during 2019.

MANAGEMENT'S DISCUSSION AND ANALYSIS YEARS ENDED DECEMBER 31, 2019 AND 2018

2018 Debt Administration

The Board continues to make its regularly scheduled payments on its bonds. During 2018, \$17.5 million in principal payments were made.

The Louisiana Department of Environmental Quality has loaned the Board up to \$9.0 million to fund construction of sewerage treatment works, implementing a management program under Section 1329 of the Water Quality Act of 1987, and developing and implementing a conservation and management plan under Section 1330 of the Federal Act. The outstanding balance is \$6.5 million at December 31, 2018.

The Costal Protection and Restoration Authority of Louisiana entered into an agreement with the Department of the Army for the Southeast Louisiana Flood Control Program. The United States Government has committed to 65% of the project costs and The Board is responsible for 35% of the project costs. At December 31, 2018, the accumulated amount due to the U.S. Government totaled approximately \$227.1 million. This amount is estimated based on the actual cost of construction incurred to date. Repayment of principal and interest is expected to start in 2019 through 2050. Total payment for the project is estimated to be approximately \$227.1 million through 2050. The total cost of the project may increase in the upcoming years as additional construction costs continue to add to the project. See Note 6 for detailed long term debt activity during 2018.

ECONOMIC FACTORS AND RATES

The Board, the City Council, and the Board of Liquidation City Debt approved a rate increase of ten percent for the Water and Sewer Departments effective January 1, 2013 and annually thereafter through 2020.

To meet the bond covenant for the 2014 Water and Sewer Revenue and Refunding Bonds and 2015 Water and Sewer Revenue Bonds, the cash in days is required to be maintained 90 days. The SWBNO has exceeded the goals by 57 days and 62 days in the Water and Sewer system, respectively.

The total number of open accounts continue to increase modestly on an annual basis. The total open accounts in 2019 were 136,616, an increase of 648 over 2018 open accounts of 135,968.

CONTACTING THE BOARD'S FINANCIAL MANAGEMENT

This financial report is designed to provide our bondholders, patrons, and other interested parties with a general overview of the Board's finances and to demonstrate the Board's accountability for the money it receives. If you have questions about this report or need additional financial information, contact the Sewerage & Water Board of New Orleans at (504) 585-2364.

BASIC FINANCIAL STATEMENTS

SEWERAGE AND WATER BOARD OF NEW ORLEANS STATEMENTS OF NET POSITION December 31, 2019 and 2018

	2019	2018
ASSETS AND DEFERRED OUTLFOWS OF RESOURCES		
Current assets:		
Cash and cash equivalents	S 62,262.464	\$ 63,639,346
Accounts receivable:		
Customers, net of allowance	34,055,759	40,383,662
Taxes	5,089,136	6,493,108
Grants	16,969,639	26,810,346
Miscellaneous	5,782,798	5,731,443
Due from pension trust fund	-	1,995,000
Inventory of supplies	5,136,999	4,888,702
Prepaid expenses	570.597	537.179
Total unrestricted and undesignated	129,867.392	150,478,786
Total current assets	129,867.392	150,478,786
Noncurrent assets:		
Restricted cash, cash equivalents, and investments:		
Cash and cash equivalents restricted for capital projects	4,216,858	21,245,567
Debt service reserve	43,839,618	46,042,585
Health insurance reserve	1,887,000	2,196,634
Total restricted cash, cash equivalents, and investments	49,943.476	69,484,786
Property, plant and equipment	4,415,243,859	4,243,049,265
Less: accumulated depreciation	1,096,948,744	1,034,187,188
Property, plant and equipment, net	3,318,295,115	3,208,862,077
Other assets:		
Funds from/for customer deposits	12,793,827	7,427,424
Deposits	51.315	51,315
Total other assets	12,845,142	7,478,739
Total noncurrent assets	3,381,083,733	3,285,825,602
Total assets	3,510,951,125	3,436,304,388
Deferred outflows of resources:		
Deferred amounts related to net pension liability	18,705.321	45,197,190
Deferred amounts related to total OPEB liability	24,816,033	-
Deferred loss on bond refunding	2,599,743	2,925,895
Total deferred outflows of resources	46,121,097	48,123,085
Total assets and deferred outflows of resources	\$ 3,557,072,222	\$ 3,484,427,473

(Continued)

SEWERAGE AND WATER BOARD OF NEW ORLEANS STATEMENTS OF NET POSITION December 31, 2019 and 2018 (Continued)

	2019	2018
LIABILITIES, DEFERRED INFLOWS OF RESOURCES, AND NET POSITION		
Current liabilities (payable from current unrestricted assets):		
Accounts payable	\$ 67,703,492	\$ 100,761,801
Due to City of New Orleans	710.554	842.664
Disaster Reimbursement Revolving Loan (Note 15)	-	11,221,710
Retainers and estimates payable	3,518.946	10,345,723
Due to pension trust fund	343,344	73.777
Accrued salaries	2,185,282	993,023
Claims payable	3,624.675	4,354,711
Total OPEB liability, due within one year	7,515.809	7,043,121
Debt Service Assistance Fund loan payable	2,650,800	5,067,022
Advances from federal government	4,655.507	4,751,868
Other liabilities	852,175	510.058
Total current liabilities (payable from current unrestricted assets):	93,760,584	145,965.478
Current liabilities (payable from current restricted assets):		
Accrued interest	2,550.699	2,725,236
Bonds payable	17,819,000	16,900,000
Retainers and estimates payable	749,493	2,072,266
Total current liabilities (payable from current restricted assets):	21,119,192	21,697,502
Total current liabilities	114,879,776	167,662,980
Long-term liabilities:		
Claims payable, net of current portion	43,209.163	44,068,031
Accrued vacation and sick pay	9,068.334	9,693,790
Net pension liability	105,041,418	123,873,465
Total OPEB liability, net of current portion	187,712.285	151,569,144
Bonds payable, net of current maturities	422,546,351	442,697,050
Southeast Louisiana Project liability	250,343,870	227,139.545
Debt Service Assistance Fund loan payable, net of current maturities	40,039.087	42,689.887
Customer deposits	12,793.827	12,577.640
Total long-term liabilities	1,070,754.335	1.054,308,552
Total liabilities	1,185,634,111	1.221,971.532
Deferred inflows of resources:		
Deferred amounts related to net pension liability	7,138.308	5,606,319
Deferred amounts related to total OPEB liability	8,031.751	12,047.631
Total deferred inflows of resources	15,170.059	17,653.950
Net position:		
Net investment in capital assets	2,631,802,752	2,543,371,049
Restricted for debt service	43,839.618	46,042,585
Unrestricted (deficit)	(319,374,318)	(344,611,643)
Total net position	2,356,268,052	2,244,801,991
Total liabilities, deferred inflows of resources, and net position	\$ 3,557,072,222	\$ 3,484,427,473

SEWERAGE AND WATER BOARD OF NEW ORLEANS STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION For the years ended December 31, 2019 and 2018

	2019	2018
Operating revenues: Sales of water and delinquent fees	\$ 113,339,213	\$ 90,287,081
Sales of water and definiquent rees	\$ 113,339,213 143,686,137	\$ 90,287,081 114,614,157
Plumbing inspection and license fees	582,056	648,332
Other revenue	5,351,115	5,687,203
Total operating revenues	262,958,521	211,236,773
Operating expenses:		
Power and pumping	20,013,016	31,874,462
Treatment	19,688,222	22,958,975
Transmission and distribution	38,176,467	46,530,018
Customer accounts	5,431,786	5,243,276
Customer service	5,304,138	4,476,414
Administration and general	29,023,557	28,253,318
Payroll related expenses	53,838,316	49,416,581
Maintenance of general plant	27,142,840	28,813,485
Depreciation	64,156,230	63,501,190
Provision for doubtful accounts	33,306,195	20,942,217
Provision (recovery) for claims	2,069,360	(7,202,684)
Total operating expenses	298,150,127	294,807,252
Operating loss	(35,191,606)	(83,570,479)
Non-operating revenues (expenses):		
Three-mill tax	15,300,420	15,504,589
Six-mill tax	16,241,889	15,576,221
Nine-mill tax	24,345,982	23,570,261
Two-mill tax	35	553
Other taxes	594,985	594,532
Contributions from other local governments (Note 17)	35,839,141	-
Federal noncapital grants	48,716	78,814
Interest income	1,610,012	833,128
Bond issuance costs	(127,550)	
Interest expense	(228,235)	
(Provision) recovery for grants	(7,230,828)	3,183,641
Total non-operating revenues (expenses)	86,394,567	59,093,270
Income (loss) before capital contributions	51,202,961	(24,477,209)
Capital contributions	60,263,100	100,287,756
Change in net position	111,466,061	75,810,547
Net position, beginning of year	2,244,801,991	2,168,991,444
Net position, end of year	\$ 2,356,268,052	\$ 2,244,801,991

SEWERAGE AND WATER BOARD OF NEW ORLEANS STATEMENTS OF CASH FLOWS ENTERPRISE FUND

For the years ended December 31, 2019 and 2018

	2019	2018
Cash flows from operating activities		
Cash received from customers	\$ 230,131,135	\$ 175,466,377
Cash payments to suppliers for goods and services	(96,159,902)	(111,566,403)
Cash payments to employees for services	(94,946,146)	(93,097,973)
Other revenue	7,876,816	653,856
Net cash provided by (used in) operating activities	46,901,903	(28,544,143)
Cash flows from noncapital financing activities		
Proceeds from property taxes	57,887,283	58,405,872
Contributions from other local governments	35,839,141	-
Proceeds from federal noncapital grants	48,716	78,814
Net cash provided by noncapital financing activities	93,775,140	58,484,686
Cash flows from capital and related financing activities		
Acquisition and construction of capital assets	(140,616,949)	(161,931,426)
Principal payments and refundings of bonds payable	(16,573,848)	(17,129,385)
Proceeds from bonds payable	127,550	-
Payments for bond issuance costs	(127,550)	-
Principal payments on Debt Service Assistance Fund loan	(5,067,022)	(4,846,200)
Interest paid on bonds payable	(22,660,389)	(23,756,793)
Payments to construction fund	(11,221,710)	(2,104,067)
Proceeds from construction fund	- ·	84,631
Capital contributed by developers and federal grants	38,276,178	108,484,725
Net cash used in capital and related financing activities	(157,863,740)	(101,198,515)
Cash flows from investing activities		
Investment income	1,634,908	1,220,452
Net cash provided by investing activities	1,634,908	1,220,452
Net decrease in cash	(15,551,789)	(70,037,520)
Cash at the beginning of the year	134,659,833	204,697,353
Cash at the end of the year	\$ 119,108,044	\$ 134,659,833
Reconciliation of cash, designated cash, and restricted cash (Note 2)		
Current assets - cash	\$ 71,806,291	\$ 67,816,770
Restricted assets - cash	47,301,753	66,843,063
		,
Total cash	<u>\$ 119,108,044</u>	\$ 134,659,833

(Continued)

SEWERAGE AND WATER BOARD OF NEW ORLEANS STATEMENTS OF CASH FLOWS ENTERPRISE FUND For the years ended December 31, 2019 and 2018

(Continued)

		2019	 2018
Reconciliation of operating loss to net cash provided by			
operating activities is as follows:			
Operating loss	S	(35,191,606)	\$ (83,570,479)
Adjustments to reconcile net operating loss to net cash			
provided by operating activities:			
Depreciation		64,156,230	63,501,190
Provision (recovery) for claims		2,069,360	(7, 202, 684)
Provision for doubtful accounts		33,306,195	20,942,217
Change in operating assets and liabilities:			
Increase in customer receivables		(26,978,292)	(30,059,251)
(Decrease) increase in due from other internal departments		1,995,000	(1,995,000)
(Increase) decrease in inventory		(248,297)	91,379
Increase in prepaid expenses			
and other receivables		(84,773)	(3,265,622)
Decrease (increase) in deferred outflows of resources			
related to net pension liability and total OPEB liability		1,675,836	(31,720,527)
(Decrease) increase in net pension obligation		(18,832,047)	40,939,747
(Decrease) increase in accounts payable		(6,359,824)	1,483,846
Increase in accrued salaries, due to			
pension and accrued vacation and sick pay		836,370	1,481,889
Increase in customer deposits		216,187	337,875
Increase (decrease) in total OPEB liability		36,615,829	(12,046,251)
Decrease in other liabilities		(3,790,374)	(3,248,454)
(Decrease) increase in deferred inflows of resources			
related to net pension liability and total OPEB liability		(2,483,891)	 15,785,982
Net cash provided by (used in) operating activities	S	46,901,903	\$ (28,544,143)
Schedule of non-cash capital and related financing activities			
Contributions of capital assets	S	24,609,637	\$ 31,923,743
Additions of property, plant and equipment in accounts payable	S	18,170,374	\$ 44,868,859

SEWERAGE AND WATER BOARD OF NEW ORLEANS STATEMENTS OF FIDUCIARY NET POSITION PENSION TRUST FUND December 31, 2019 and 2018

	 2019	 2018
Assets:		
Cash	\$ 442,289	\$ 1,456
Receivables:		
Investment income	37,385	63,354
Employee and employer contributions receivable	401,557	-
Due from other fund	343,344	73,777
Investments:		
Money market	2,544,817	1,682,862
LAMP	14,215,086	12,215,716
Debt securities	78,673,129	79,846,858
Equities	 144,197,695	 123,390,760
Total assets	 240,855,302	 217,274,783
Liabilities:		
Other liabilities	1,177,600	-
Due to other fund	 -	 1,995,000
Total Liabilities	 1,177,600	 1,995,000
Net position - restricted for pension benefits	\$ 239,677,702	\$ 215,279,783

SEWERAGE AND WATER BOARD OF NEW ORLEANS STATEMENTS OF CHANGES IN FIDUCIARY PLAN NET POSITION PENSION TRUST FUND For the years ended December 31, 2019 and 2018

	 2019	 2018
Additions:		
Contributions:		
Employee contributions	\$ 2,793,158	\$ 2,535,027
Employer contributions	10,466,009	8,419,441
City annuity and other transfers in	 337,103	 232,455
	 13,596,270	 11,186,923
Investment income:		
Interest income	95,423	329,929
Dividend income	1,622,096	1,363,919
Net appreciation (depreciation)	 32,715,180	 (8,547,940)
	 34,432,699	(6,854,092)
Less: investment expense	 769,908	 1,014,187
Net investment income (loss)	 33,662,791	 (7,868,279)
	 47,259,061	 3,318,644
Deductions:		
Benefits	(20,438,403)	(18,565,085)
Employee refunds	(481,801)	(355,206)
Employee contributions to DROP	 (1,940,938)	 (4,402,887)
Total deductions	 (22,861,142)	 (23,323,178)
Change in net position	24,397,919	(20,004,534)
Net position restricted for pension benefits		
at beginning of year	 215,279,783	 235,284,317
Net position restricted for pension benefits		
at end of year	\$ 239,677,702	\$ 215,279,783

NOTES TO BASIC FINANCIAL STATEMENTS

NOTES TO FINANCIAL STATEMENTS

1. Summary of Significant Accounting Policies

A. History and Organization

The major operation of the Sewerage and Water Board of New Orleans (the Board) is providing water, sewerage, and drainage services for the City of New Orleans (the City). The Sewerage and Water Board of New Orleans was created by Act 6 of the Louisiana Legislature of 1899 as a special board independent of the City's government to construct, maintain, and operate a water treatment and distribution system and a public sanitary sewerage system for the City. In 1903, the Legislature gave the Board control of and responsibility for the City's major drainage system and relieved the City of the duty of providing in its annual operating budget or otherwise for the maintenance and operations of the water, sewerage, and drainage systems.

In accordance with the Louisiana Revised Statutes (LRS) 33:4096 and 4121, the Board has the authority to establish the water and sewerage rates to charge to its customers. The rates are based on the actual water consumed and on the costs of maintenance and operation of the water and sewerage systems, including the costs of improvements and replacements. The collections of water and sewerage revenues are to be used by the Board for the maintenance and operation of the systems, the cost of improvements, betterments, and replacements and to provide for the payments of interest and principal on the bonds payable. On November 14, 2012, the Board approved both sewer and water rate increases commencing January 1, 2013. The sewer and water rates increase approximately 10% each year until the year of 2020. This increase was approved by the New Orleans City Council on November 14, 2012.

The Board has also been given the authority to levy and collect various tax mileages, which are used for the operation and maintenance of the drainage operations. All excess revenues collected are made available for capital development of the system. The proceeds of the rate collections and tax milage are invested in such investments as authorized by the LRS. These investments are reflected in the combined statements of net position, as "restricted assets," as they are restricted to the purposes as described above.

The Sewerage and Water Board of New Orleans' eleven-member Board of Directors consists of the Mayor, the chair of the Public Works, Sanitation and Environment Committee of the New Orleans City Council or his designee, two representatives of the Board of Liquidation, and seven citizen members, of which five represent council districts and two consumer advocates and one of the appointments shall be a retired civil engineer.

The Board's accounting policies conform to accounting principles generally accepted in the United States of America as applicable to utilities and to governmental units as set forth through the Government Accounting Standard Board. The following is a summary of the more significant policies.

NOTES TO FINANCIAL STATEMENTS (Continued)

1. Summary of Significant Accounting Policies (continued)

B. <u>Reporting Entity</u>

In conformity with the Governmental Accounting Standards Board's definition of a reporting entity, the Board includes an enterprise fund and a pension trust fund for financial reporting purposes. The Board is considered a reporting entity based on the following criteria:

- Responsibility for surpluses/deficits. The Board is solely responsible for its surpluses/deficits. In accordance with LRS, no other governmental unit is responsible for the Board's deficits or has a claim to its surpluses. The Board's operations are self-sustaining; revenues are generated through charges to customers and dedicated property taxes. Other than grants, no funding is received from the State of Louisiana or the City of New Orleans.
- 2) Budget Approval. The Board is solely responsible for reviewing, approving, and revising its budget.
- 3) Responsibility for Debt. The LRS authorize the Board to issue bonds; such bonds must bear on their face a statement that they do not constitute a debt of the City. The Board is solely responsible for payments to bondholders. No other governmental unit is required by statute to make any payments to bondholders nor have any payments to bondholders ever been made by any governmental unit, except the Board.
- 4) Designation of Management. The Board controls the hiring of management and employees.
- 5) Special Financial Relationship. The Board has no special financial relationships with any other governmental unit.
- 6) Statutory Authority. The Board's statutory authority was created by the State of Louisiana as an independent governmental unit. Only an amendment to the state statutes can change or abolish the Board's authority.

The Board is a component unit of the City of New Orleans as defined by Governmental Accounting Standards Board Statement 61, *The Financial Reporting Entity: Omnibus—an amendment of GASB Statements No. 14 and No. 34 and GASB Codification Section 2100.* As a result of a Louisiana Supreme Court decision on March 21, 1994, the Board was declared to be an autonomous or self-governing legal entity, legally independent of the City, State and other governments, created and organized pursuant to Louisiana Revised Statutes 33:4071 as a board, separate and independent of the governing authorities of the City and vested with autonomous or self-governing authority. No other government can mandate actions of the Board nor impose specific financial burdens, except the approval of the City Council and the Board of Liquidation in the case of bond issues and certain rate increases. As such, the City considers the Board to be a component unit of the City and includes the Board, as a discreetly presented component unit, in the City's annual financial statements. However, the Board is fiscally independent to operate under its bond covenant and the provisions of LRS provisions.

NOTES TO FINANCIAL STATEMENTS (Continued)

1. Summary of Significant Accounting Policies (continued)

C. Basis of Financial Statement Presentation

The Board's basic financial statements consist of the government-wide statements which include the proprietary fund (the enterprise fund) and the fund financial statements which includes the fiduciary fund (the pension trust fund).

The operations of the Board are accounted for in the following fund types:

Proprietary Fund Type

The proprietary fund is used to account for the Board's ongoing operations and activities, which are similar to those often found in the private sector. The proprietary fund is accounted for using a flow of economic resources measurement focus. With this measurement focus, all assets and all liabilities associated with the operation of these funds are included on the statement of net position. Net position is segregated into amounts invested in capital assets (net of related debt), restricted for debt service, restricted for capital projects, and unrestricted. The Board's restricted assets are expendable for their purposes. The Board utilizes available unrestricted assets before utilizing restricted assets. The operating statements present increases (revenues) and decreases (expenses) in net position. The Board maintains one proprietary fund type – the enterprise fund. The enterprise fund is used to account for operations (a) that are financed and operated in a manner similar to private business enterprises--where the intent of the governing body is that the cost (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges; or (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance.

Operating revenues include all charges for service; other revenues include reconnection fees and other miscellaneous charges. Operating expenses include the costs associated with providing water, sewerage, and drainage services. Interest income, interest expense, grants from other governments, and tax revenues are presented as non-operating items.

The enterprise fund is presented in the government-wide financial statements.

Fiduciary Fund Type

The fiduciary fund is used to account for assets held by the Board in a trustee capacity or as an agent for individuals, private organizations, other governmental units, and/or other funds. The Board maintains one fiduciary fund type - the pension trust fund. The pension trust fund uses the flow of economic resources measurement focus. All assets and liabilities associated with the operation of this fund are included in the statement of plan net assets. The pension trust fund is used to account for the activity of the Board's employee retirement plan, which is a blended component unit of the Board as defined by Section 2100 of the GASB Codification.

The pension trust fund is presented in the fund financial statements.

NOTES TO FINANCIAL STATEMENTS (Continued)

1. Summary of Significant Accounting Policies (continued)

D. Basis of Accounting

The enterprise fund and the pension trust fund prepare their financial statements on the accrual basis of accounting. Unbilled utility service charges are not recorded as management considers the effect of not recording such unbilled receivables as not material. Property taxes are recorded as revenue in the year for which they are levied. Plan member contributions are recognized in the period in which contributions are due. Employer contributions to the pension plan are recognized when due and the employer has made a commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan.

E. Investments

Investments are recorded at fair value, except for short-term investments (maturity of one year or less), which are recorded at amortized cost, which approximates fair value. Securities traded in a national or international exchange are valued at the last recorded sales price at current exchange rates. Investments that do not have an established market are recorded at estimated fair value. Investment income and expenses, including changes in the fair value of the investments, are recognized in the Statements of Revenues, Expenses, and Changes in Net Position.

F. Inventory of Supplies

Inventory of supplies is valued at cost. Cost is determined by the weighted average cost method.

G. Vacation and Sick Pay

Vacation (annual leave) and sick pay (sick leave) are accrued when earned. Annual leave is accrued at the rate of .6923 of a workday for each bi-weekly accrual period for all employees on the payroll as of December 31, 1978. Employees hired after that date earn leave at a rate of .5 of a workday per bi-weekly pay period.

All employees on the payroll as of December 31, 1978 receive three bonus days each year; all employees hired after that date receive three bonus days each year for five through nine calendar years of continuous service; six bonus days each year for ten through fourteen years; nine bonus days each year for fifteen through nineteen years; and, twelve days for twenty or more years of continuous service. Civil Service's policy permits employees a limited amount of earned but unused annual leave which will be paid to employees upon separation from the Board. The amount shall not exceed ninety days for employees hired before January 1, 1979, and forty-five days for employees hired after December 31, 1978.

Sick leave is accumulated on a bi-weekly basis by all employees hired prior to December 31, 1978 at an accrual rate of .923 of a workday. For employees hired subsequent to December 31, 1978, the accrual rate is .5 of a workday for each bi-weekly period, plus a two-day bonus each year for employees with six through fifteen calendar years of continuous service, and seven bonus days each year for employees with sixteen or more calendar years of continuous service.

NOTES TO FINANCIAL STATEMENTS (Continued)

1. Summary of Significant Accounting Policies (continued)

G. Vacation and Sick Pay (continued)

Upon separation from the Board, an employee can elect to convert unused sick leave for retirement credits or cash. The conversion to cash is determined by a rate ranging from one day of pay for five days of leave for the 1st through 100th leave day to one day of pay for one day of leave for all days in excess of the 400th leave day. The total liability for unconverted sick leave as of December 31, 2019 and 2018 is approximately \$13,821,188 and \$13,258,512, respectively. The amount included in the statements of net position as of December 31, 2019 and 2018 is \$9,068,334 and \$9,693,790, respectively, which represents the annual leave and the converted sick leave for cash since virtually all employees convert their sick leave to cash. The Board books the compensated absences as a long-term liability. The amounts for compensated absences include the salary cost as well as certain salary related costs, such as the Board's share of social security expense. The following table summarizes changes in the Board's vacation and sick pay liability.

			С	urrent Year			
	Be	ginning of	Earne	ed and Changes			End of
Year	Ye	ar Liability	i	n Estimate	Payments	Y	ear Liability
2019	\$	9,693,790	\$	4,306,153	\$ (4,931,609)	\$	9,068,334
2018	\$	8,000,124	\$	5,711,446	\$ (4,017,780)	\$	9,693,790

H. Property, Plant, and Equipment

Property, plant, and equipment are carried at historical cost. The Board capitalizes moveable equipment with a value of \$10,000 or greater, stationary, network, and other equipment with a value of \$5,000 or greater and all real estate. The cost of additions includes contracted work, direct labor, materials, and allocable cost. Donated capital assets are recorded at their acquisition value at the date of donation.

Interest is capitalized on property, plant, and equipment acquired and/or constructed with tax exempt debt. Depreciation is computed using the straight-line method over the estimated useful life of the asset. When assets are retired or otherwise disposed of, the cost and related accumulated depreciation are removed from the accounts and any resulting gain or loss is recognized in revenue for the period. The cost of maintenance and repairs is charged to operations as incurred, and significant renewals and betterments are capitalized. Deductions are made for retirements resulting from renewals or betterments.

I. Self-Insurance/Risk Management

The Board is self-insured for general liability, workers' compensation, unemployment compensation, and hospitalization benefits and claims. The accrued liability for the various types of claims represents an estimate by management of the eventual loss on the claims arising prior to year-end, including claims incurred and not yet recorded including estimates of both future payments of losses and related claims adjustment and expense. Estimated expenses and recoveries are based on a case by case review.

NOTES TO FINANCIAL STATEMENTS (Continued)

1. Summary of Significant Accounting Policies (continued)

J. Bond Issuance Costs and Refinancing Gains (Losses)

Costs related to issuing bonds are expensed when incurred. Premiums and discounts associated with bond issues are amortized over the interest yield method.

K. Deferred Inflows/Outflows of Resources

Deferred outflows of resources represent a consumption of net position that applies to future periods and so will not be recognized as an outflow of resources (expense) until then. The deferred charge on refunding recorded on the statements of net position results from the difference in carrying value of refunded debt and its reacquisition price. This amount is deferred and amortized over the shorter of the life of the refunded or refunding debt.

Deferred inflows and outflows have been recognized for the net difference between the projected and actual investment earnings, this amount is deferred and amortized over a period of five years. In addition, deferred inflows and outflows have been recognized for the differences between the actuarial expectation and the actual economic experience and changes in actuarial assumptions related to the defined benefit pension plan and the other post-retirement benefit plan. These amounts are deferred and amortized over the average of the expected service lives of pension plan members. See Note 7 and Note 8 for additional information on deferred inflows and outflows related to the pension plan and the other post-retirement benefits plan, respectively.

L. Pension

The Board may fund all or part of the accrued pension cost, depending on the resources that are available at the time of contribution, for its contributory pension plan which covers substantially all employees. Annual costs are actuarially computed using the entry age normal cost method.

M. Drainage System

In 1903, the Legislature gave the Board control of and responsibility for the City's drainage system. The Drainage System was established as a department of the enterprise fund to account for the revenues from three-mill, six-mill, and nine-mill ad valorem taxes designated exclusively for drainage services. These revenues have been supplemented by inspection and license fees collected by the Board. There exists a potential for additional financing by additional user service charges. Expenditures from the system are for the debt service of three-mill, six-mill, and nine-mill tax bonds and drainage related operation, maintenance, and construction.

N. Capital Contributions

Contributions from developers and others, and receipts of Federal, State, and City grants for acquisition of property, plant, and equipment are recorded as capital contributions in the statements of revenues, expenses, and changes in net position.

NOTES TO FINANCIAL STATEMENTS (Continued)

1. Summary of Significant Accounting Policies (continued)

O. Net Position Flow Assumption

Sometimes the Board will fund outlays for a particular purpose from both restricted (e.g. restricted bond or grant proceeds) and unrestricted resources. In order to calculate the amounts to report as restricted net position and unrestricted net position, a flow assumption must be made about the order in which the resources are considered to be applied. The Board's policy is to consider restricted net position to have been depleted before unrestricted-net position is applied.

P. Net Position

<u>Net investment in capital assets</u> – This component of net position consists of capital assets, net of accumulated depreciation, and reduced by the outstanding debt attributable to the acquisition, construction, or improvement of those assets. If there are significant unspent related debt proceeds at year-end, the portion of the debt attributable to the unspent proceeds is not included in this component of net position. Rather, that portion of debt is included in the same component of net position as the unspent proceeds.

<u>Restricted</u> – This net position component reports externally imposed constraints placed on their use by creditors (such as through debt covenants), grantors, contributors, or laws or regulations of other governments or constraints imposed by law through constitutional provisions or enabling legislation.

<u>Unrestricted</u> – Unrestricted net position is the balance (deficit) of all other elements in a statement of net position remaining after net investment in capital assets and restricted net position.

Q. Cash Flows

For purposes of the statements of cash flows, only cash on hand and on deposit at financial institutions is considered to be cash equivalents. Certificates of deposits, treasury bills, and other securities are considered investments.

R. Operating and Nonoperating Revenues

Proprietary funds distinguish operating revenues and expenses from nonoperating items. Operating revenues and expenses generally result from providing services and delivering goods in connection with principal ongoing operations. The principal operating revenues of the Board are charges to customers for sales and services. Operating expenses include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are recorded as nonoperating revenues and expenses.

NOTES TO FINANCIAL STATEMENTS (Continued)

1. Summary of Significant Accounting Policies (continued)

S. Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the recorded amounts of assets and liabilities and disclosure of contingent assets and liabilities as of the date of the financial statements and the recorded amounts of revenue and expenditures during the period. Actual results could differ from those estimates.

T. <u>Reclassifications</u>

Certain accounts in the prior-year financial statements have been reclassified for comparative purposes to conform to the presentation in the current-year financial statements. This reclassification had no effect on previously reported change in net position.

2. Cash and Investments

The Board's investments and cash consist primarily of investments in direct obligations of the United States or agencies thereof and deposits with financial institutions.

Custodial Credit Risk – Deposits – Custodial credit risk is the risk that in the event of a bank failure, the government's deposits may not be returned to it. Statutes require that the Board's cash and certificates of deposit be covered by federal depository insurance or collateral. At December 31, 2019, the Board's interest bearing deposits with banks consisted of cash and money market funds totaling \$50,557,876 and certificates of deposit of \$28,058,822. At December 31, 2018, the Board's interest bearing deposits with banks consisted of cash and money market funds totaling \$93,431,241 and certificates of deposit of \$275,567. The Board's cash bank balances and all certificates of deposit for 2019 and 2018 were covered by federal depository insurance or collateral held by custodial agents of the financial institutions in the name of the Board.

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

The following are the components of the Board's cash and investments as of December 31 for the Enterprise Fund:

				2019		
	Ur	are s tricte d	F	ke s tric te d	Total	
Cash and money market funds	S	71,528,865	\$	47,301,753	\$	118,830,618
Certificates of deposit		277,426		-		277,426
		71,806,291		47,301,753		119,108,044
Investments - LAMP		3,250,000		2,641,723		5,891,723
Total cash and investments	S	75,056,291	\$	49,943,476	\$	124,999,767
				2018		
	Ur	nrestricte d	F	ke s tric te d		Total
Cash and money market funds			-			
	S	67,541,203	\$	66,843,063	\$	134,384,266
Certificates of deposit	3	67,541,203 275,567	\$	66,843,063 -	\$	134,384,266 275,567
r -	S		\$	66,843,063 - 66,843,063	\$	
r -		275,567	\$	-	\$	275,567

A. Fair Value Measurement

To the extent available, the Board's investments are recorded at fair value as of December 31, 2019 and 2018. GASB Statement No. 72 – Fair Value Measurement and Application, defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. This statement establishes a hierarchy of valuation inputs based on the extent to which the inputs are observable in the marketplace. Inputs are used in applying the various valuation techniques and take into account the assumptions that market participants use to make valuation decisions. Inputs may include price information, credit data, interest and yield curve data, and other factors specific to the financial instrument. Observable inputs reflect market data obtained from independent sources. In contrast, unobservable inputs reflect the entity's assumptions about how market participants would value the financial instrument. Valuation techniques should maximize the use of observable inputs to the extent available.

A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. The following describes the hierarchy of inputs used to measure fair value and the primary valuation methodologies used for financial instruments measured at fair value on a recurring basis.

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

A. Fair Value Measurement (continued)

The framework provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements).

The three levels of the fair value hierarchy are described as follows:

Level 1: Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Board has the ability to access at the measurement date.

Level 2: Inputs to the valuation methodology include quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities in inactive markets; inputs other than quoted prices that are observable for the asset or liability; inputs that are derived principally from or corroborated by observable market data by correlation or other means. If the asset or liability has a specified (contractual) term, the level 2 input must be observable for substantially the full term of the asset or liability.

Level 3: Inputs to the valuation methodology are unobservable and significant to the fair value measurement determined using model-based techniques that include option pricing models, discounted cash flow models, and similar techniques.

The asset's or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

Investments - Statutes authorize the Board to invest in obligations of the U.S. Treasury, agencies, and instrumentalities, commercial paper rated A-1 by Standard & Poors Corporation or P-1 by Moody's Commercial Paper Record, repurchase agreements, and the Louisiana Asset Management Pool (LAMP). In addition, the pension trust fund is authorized to invest in corporate bonds rated BBB or better by Standard & Poors Corporation or Baa or better by Moody's Investors Service and equity securities.

Money market funds, LAMP, and certificate of deposit are measured using NAV as a practical expedient. These investments have not been classified in the fair value hierarchy table. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the line items presented in the statements of net position.

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

A. Fair Value Measurement (continued)

A summary of the Board's investments, including the Pension Trust Fund, along with the Fair value hierarchy levels of each type of investment as of December 31, 2019 and 2018 are as follows:

				20)19			
		Total	Â	oted Prices in ctive Markets evel 1 Inputs)	(nificant Other Observable outs (Level 2 Inputs)	Unot Inputs	nificant oservable s (Level 3 nputs)
Investment by Fair Value Level:								
Equities	S	144,197,695	S	144,197,695	S	-	S	-
Debt Securities		78,673,129		-		78,673,129		
Total Investments at								
Fair Value Level	S	222,870,824	\$	144,197,695	\$	78,673,129	S	-
Investment measured at the net asset value (NAV):								
Money market funds	Ş	67,964,643						
LAMP		20,106,809						
Certificate of Deposit		277,426						
Total Investments at NAV	S	88.348.878						

Total Investments at Fair Value <u>\$ 311,219,702</u>

				20	018			
					Sig	ificant Other	Sig	nificant
			Qu	oted Prices in	C	Observable	Unob	servable
			Ac	tive Markets	Inp	uts (Level 2	Inputs	(Level 3
		Total	_(Le	evel 1 Inputs)		Inputs)	I1	puts)
Investment by Fair Value Level:								
Equities	Ş	123,390,760	S	123,390,760	\$	-	\$	-
Debt Securities		79,846,858		-		79,846,858		
Total Investments at								
Fair Value Level	Ş	203,237,618	\$	123,390,760	\$	79,846,858	S	-
Investment measured at the net asset value (NAV):								
Money market funds	S	70,106,275						
LAMP		18,107,439						
Certificate of Deposit		275,567						
Total Investments at NAV	S	88,489,281						
Total Investments at Fair Value	Ş	291,726,899						

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

A. Fair Value Measurement (continued)

A reconciliation of the enterprise and pension funds to the total investments at December 31, 2019 and 2018 is as follows:

			2019		
	1	Enterprise	Pension	 Total	
Money market	\$	65,419,826	\$ 2,544,817	\$ 67,964,643	
LAMP		5,891,723	14,215,086	20,106,809	
Certificate of deposit		277,426	-	277,426	
Other investments		-	 222,870,824	 222,870,824	
Total cash and investments	\$	71,588,975	\$ 239,630,727	\$ 311,219,702	

A reconciliation of the enterprise and pension funds to the total investments at December 31, 2018 is as follows:

		2018	
	Enterprise	Pension	Total
Money market	68,423,413	1,682,862	\$ 70,106,275
LAMP	5,891,723	12,215,716	18,107,439
Certificate of deposit	275,567	-	275,567
Other investments		203,237,618	203,237,618
Total cash and investments	\$ 74,590,703	\$ 217,136,196	\$ 291,726,899

Pension trust fund investments are held in trust and governed pursuant to an indenture between the trustee financial institution and the Board.

B. Louisiana Asset Management Pool (LAMP)

LAMP is administered by LAMP, Inc., a non-profit corporation organized under the laws of the State of Louisiana. Only local government entities having contracted to participate in LAMP have an investment interest in its pool of assets. The primary objective of LAMP is to provide a safe environment for the placement of public funds in short-term, high quality investments. The LAMP portfolio includes only securities and other obligations in which local governments in Louisiana are authorized to invest in accordance with Louisiana R.S. 33:2955.

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

B. Louisiana Asset Management Pool (LAMP) (continued)

GASB Statement No. 40 Deposit and Investment Risk Disclosure, requires disclosure of credit risk, custodial credit risk, concentration of credit risk interest rate risk, and foreign currency risk for all public entity investments.

LAMP is an investment pool that, to the extent practical, invests in a manner consistent with GASB Statement No. 79. The following facts are relevant for investment pools:

- <u>Credit risk</u>: LAMP is rated AAAm by Standard & Poor's.
- <u>Custodial credit risk</u>: LAMP participants' investments in the pool are evidenced by shares of the pool. Investments in pools should be disclosed but not categorized because they are not evidenced by securities that exist in physical or book-entry form. The public entity's investment is with the pool, not the securities that make up the pool; therefore, no disclosure is required.
- <u>Concentration of credit risk</u>: Pooled investments are excluded from the 5 percent disclosure requirement.
- <u>Interest rate risk</u>: LAMP is designed to be highly liquid to give its participants immediate access to their account balances. LAMP prepares its own interest rate risk disclosure using the weighted average maturity (WAM) method. The WAM of LAMP assets is restricted to not more than 60 days and consists of no securities with a maturity in excess of 397 days or 762 days for U.S. Government floating/variable rate investments. The WAM for LAMP's total investments is 92 as of December 31, 2019.
- Foreign currency risk: Not applicable.

The investments in LAMP are stated at fair value. The fair value is determined on a weekly basis by LAMP and the value of the position in the external investment pool is the same as the net asset value of the pool shares.

LAMP, Inc. is subject to the regulatory oversight of the state treasurer and the board of directors. LAMP is not registered with the SEC as an investment company.

C. Credit and Interest Risk

Credit Risk - State law limits investments in securities issued, or backed by United States Treasury obligations, and U.S. Government instrumentalities, which are federally sponsored. The Board's investment policy does not further limit its investment choices. LAMP is rated AAAm by Standard & Poor's. The Pension Trust Fund's investment policy requires that fixed income investments be investment grade (BBB or higher as rated by Standard & Poor's or Baa or higher as rated by Moody's). Bonds rated below BBB/Baa are not to exceed 15% of the portfolio, and non-rated bonds are not to exceed 1% of the portfolio.

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

C. Credit and Interest Risk (continued)

Interest Rate Risk - Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. In general, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. The Board has a formal investment policy that states that the investment portfolio shall remain sufficiently liquid to meet all operating and capital requirements that may be reasonably anticipated and that maturities of investments are to be structured concurrent with cash needs to meet anticipated demand.

Foreign Currency Risk – The Pension Trust Fund's exposure to foreign currency risk derives from its positions in foreign currency-denominated fixed-income investments. The Pension Trust Fund's investment policy permits it to invest up to 5 percent of total investments in foreign currency-denominated fixed-income investments. The Pension Trust Fund's current position is 2.0 percent. The investments in foreign currency-denominated corporate bonds were rated by Standard & Poor's.

Following are the credit risk ratings of the Pension Trust Fund's investments in debt securities as	
of December 31, 2019:	

		Foreign	Government Bonds and			
Rating	Corporate Bonds	Government Bonds	U.S. Treasury Notes	Other	Total	Percentage of Total
Kaning	Bolias	Bolkis	110103			
AAA	\$ -	\$ 6,772	\$ -	\$ 15,965,835	\$ 15,972,607	20.30%
AA+	-	-	-	11,631	11,631	0.01%
AA	50,419	6,737	-	35,939	93,095	0.12%
AA-	1,068,233	48,745	-	128,159	1,245,137	1.58%
\mathbf{A}^+	1.044,208	155,213	-	-	1,199,421	1.52%
А	2,691,637	34,736	-	756,399	3,482,772	4.43%
A-	5,720,896	60,421	-	164,295	5,945,612	7.56%
BBB+	2,940,219	1,308,003	-	105,645	4,353,867	5.53%
BBB	4,416,503	198,702	-	303,258	4,918,463	6.25%
BBB-	4,830,545	22,273	-	737 <i>.</i> 991	5,590,809	7.11%
BB+	1,136,805	50,793	-	140,524	1,328,122	1.69%
BB	1,531,796	167,388	-	127,767	1,826,951	2.32%
BB-	845,587	209,013	-	149,885	1.204,485	1.53%
\mathbf{B}^+	524,361	242,151	-	10,317	776,829	0.99%
в	850,735	276,774	-	153,969	1.281,478	1.63%
в-	453,098	97,423	-	183,051	733,572	0.93%
CCC+	280,730	35,647	-	-	316,377	0.40%
CCC	152,170	195,978	-	14,030	362,178	0.46%
С	1,313	-	-	-	1,313	0.00%
Not Rated	158,177	81,096	26,351,548	1,437,589	28,028,410	35.63%
Total	\$ 28,697,432	\$ 3,197,865	\$ 26,351,548	\$ 20,426,284	\$ 78,673,129	100.00%

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

C. Credit and Interest Risk (continued)

Following are the credit risk ratings of the Pension Trust Fund's investments in debt securities as of December 31, 2018:

	Corporate	Foreign Government	Government Bonds and U.S. Treasury			Percentage of
Rating	Bonds	Bonds	Notes	Other	Total	Total
AAA	s -	\$ 77.436	s -	S 19,836,544	S 19,913,980	24.94%
AA-	-	-	-	4,568	4,568	0.01%
AA	52,304	214,378	-	73,752	340,434	0.43%
AA-	832,954	17,339	-	13,810	864,103	1.08%
A-	1,238,783	-	-	-	1,238,783	1.55%
А	3,063,443	-	-	401.221	3,464,664	4.34%
A-	4.433,541	102,295	-	145.759	4,681.595	5.86%
BBB-	2,646,483	1,782,272	-	129,144	4,557.899	5.71%
BBB	3,738,728	105,312	-	164,878	4,008,918	5.02%
BBB-	3,945,209	101,140	-	709,902	4,756,251	5.96%
BB+	815,168	52,055	-	160,445	1,027,668	1.29%
BB	724,745	559,172	-	171.100	1,455,017	1.82%
BB-	513,814	142,769	-	155,164	811,747	1.02%
\mathbf{B}^+	336,640	184,666	-	61,441	582,747	0.73%
В	432,304	571,415	-	206,084	1,209,803	1.52%
B-	265.336	349,440	-	194.628	809.404	1.01%
CCC-	79,931	-	-	2,888	82,819	0.10%
CCC	42,516	118	-	17.260	59.894	0.08%
CC	-	233	-	-	233	0.00%
С	-	-	-	37,849	37,849	0.05%
Not Rated	128,484	-	29,809,998		29,938,482	37.49%
Total	\$ 23,290,383	\$ 4,260,040	\$ 29,809,998	\$ 22,486,437	\$ 79,846,858	100.00%

D. Concentration of Credit Risk

Per GASB Statement 40, *Deposit and Investment Risk Disclosures*, concentration of credit risk is defined as the risk of loss attributed the magnitude of government's investment in a single issuer. GASB 40 further defines an at-risk investment to be one that represents more than five percent (5%) of the fair value of the total investment portfolio and requires disclosure of such at-risk investments. GASB 40 specifically excludes investments issued or explicitly guaranteed by the U.S. government and investments in mutual funds, external investment pools, and other pooled investments from the disclosure requirement. The Board has no investment in a single issuer that represent more than 5% of the investment portfolio. In addition, the Board's investments consist of investments in mutual funds, external investments.

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

E. Pension Trust Fund Investments

As of December 31, 2019, the Pension Trust Fund had the following investments in debt securities and maturities:

	Duration					
Investment Type	Less than 1 Year	1 - 5 Years	6 - 10 Years	Greater Than 10 Years	Duration Not Available	Total
Corporate Bonds	\$ 2,624,531	\$ 14,153,456	\$ 7,655,543	\$ 4,133,003	\$ 130,899	\$ 28,697,432
Foreign Governmen	t					
Bonds	139,341	811,616	958,505	1,288,403	-	3,197,865
Government Bonds						
and U.S. Treasury	7					
Notes	36.427	13,044,873	9,884,127	3,375,062	11.059	26,351,548
Other	1,482,543	17,828,733	800,503	192,550	121,955	20,426,284
Total	\$ 4,282,842	\$ 45,838,678	\$ 19,298,678	\$ 8,989,018	\$ 263,913	\$ 78,673,129

As of December 31, 2018, the Pension Trust Fund had the following investments in debt securities and maturities:

Duration

	Duration					
Investment Type	Less than 1 Year	1 - 5 Years	6 - 10 Years	Greater Than 10 Years	Duration Not Available	Total
Corporate Bonds Foreign Governmen	\$ 757,368 t	\$ 10,462,955	\$ 8,523,696	\$ 3,518,539	\$ 27,825	\$ 23,290,383
Bonds	322,621	2,374,111	820,195	743,113	-	4,260,040
Government Bonds and U.S. Treasury	7					
Notes	123,736	17,338,937	7,301,201	5,046,124	-	29,809,998
Other	1,406,747	11,745,698	9,275,301		58,691	22,486,437
Total	\$ 2,610,472	\$ 41,921,701	\$ 25,920,393	\$ 9,307,776	<u>\$ 86,516</u>	\$ 79,846,858

NOTES TO FINANCIAL STATEMENTS (Continued)

2. Cash and Investments (continued)

F. Security Lending

Under the provisions of its benefit plan and state law, the Board's pension benefit trust engages in securities lending to broker dealers and other entities for cash collateral that will be returned for the same securities in the future. The cash collateral cannot be liquidated by the Board unless the borrower defaults. Cash collateral is initially pledged at 102.25% of the market value of securities lent and additional collateral is provided by the next business day if the value falls to less than 100% of the market value of the securities lent. No collateral exposure existed at December 31, 2019 and 2018. The value of securities lent at December 31, 2019 and 2018 was \$31,606,146 and \$38,867,570, respectively. The market value of the cash collateral at December 31, 2019 and 2018 was \$32,010,943 and \$39,740,372, respectively.

3. Customer Receivables

Customer receivables as of December 31 consist of the following:

				2019	
			Α	llowance	
	C	lustomer	fo	r Doubtful	
	A	Accounts	1	Accounts	Net
Water	S	48,002,969	\$	31,360,329	\$ 16,642,640
Sewer		53,182,590		35,769,471	17,413,119
	S	101,185,559	\$	67,129,800	\$ 34,055,759
				2018	
			A	llowance	
	C	Customer	fo	r Doubtful	
	A	Accounts		Accounts	 Net
Water	S	38,104,851	\$	18,184,910	\$ 19,919,941
Sewer		40,847,768		20,384,047	20,463,721
	S	78,952,619	\$	38,568,957	\$ 40,383,662

NOTES TO FINANCIAL STATEMENTS (Continued)

4. Property, Plant, and Equipment

The useful lives of property, plant, and equipment consisted of the following:

Power and pumping stations - buildings	57 years
Power and pumping stations - machinery	40 years
Distribution systems	75 years
Sewerage collection	75 years
Canals and subsurface drains	75 to 100 years
Treatment plants	50 years
Connections and meters	50 years
Power transmission	50 years
General plant	12 years
General buildings	25 years

Property, plant, and equipment consisted of the following as of December 31:

	2019					
	Beginning		Deletions/	Ending		
-	Balance	Additions	Reclassifications	Balance		
Cost						
Real estate rights, non depreciable	\$ 13,787,557	\$ -	\$ -	\$ 13,787,557		
Power and pumping stations - buildings	396,603,698	-	-	396,603,698		
Power and punping stations - machinery	366,772,877	215,958	-	366,988,835		
Distribution systems	362,282,822	11,856,348	(927,876)	373,211,294		
Sewerage collection	742,695,414	104,113,167	(209,296)	846,599,285		
Canals and subsurface drainage	916,810,550	115,974,314	-	1,032,784.864		
Treatment plants	207,077,447	-	-	207,077,447		
Connections and meters	106,914,465	998,676	(68,913)	107,844,228		
Power transmission	37,361,629	-	(303,742)	37,057,887		
General plant and buildings	333,536,294	12,669,452	(188,592)	346,017,154		
Total property, plant, and equipment in						
service	3,483,842,753	245,827,915	(1,698,419)	3,727,972,249		
Construction in progress	759,206,512	173,817,976	(245,752,878)	687,271,610		
Total property, plant, and equipment	4,243,049,265	419,645,891	(247,451,297)	4,415,243,859		
Accumulated Depreciation						
Power and pumping stations - buildings	159,765,462	7,182,742	-	166,948,204		
Power and pumping stations - machinery	195,292,713	10,194,686	-	205,487,399		
Distribution systems	57,292,876	5,170,345	(927,875)	61,535,346		
Sewerage collection	73,780,749	10,855,798	(209,294)	84,427,253		
Canals and subsurface drainage	111,371,494	10,490,044	-	121,861,538		
Treatment plants	80,897,928	4,462,099	-	85,360,027		
Connections and meters	42,192,235	1,730,357	(68,913)	43,853,679		
Power transmission	17,759,854	854,709	-	18,614,563		
General plant and buildings	295,833,877	13,215,450	(188,592)	308,860,735		
Total accumulated depreciation	1,034,187,188	64,156,230	(1,394,674)	1,096,948,744		
Net property, plant, and equipment	\$ 3,208,862,077	\$ 355,489,661	\$ (246,056,623)	\$ 3,318,295,115		

NOTES TO FINANCIAL STATEMENTS (Continued)

4. <u>Property, Plant, and Equipment (continued)</u>

	2018				
	Beginning		Deletions/	Ending	
	Balance	Additions	Reclassifications	Balance	
Cost					
Real estate rights. non depreciable	\$ 13,633,314	\$ 154,243	s -	\$ 13,787,557	
Power and pumping stations - buildings	392,628,067	3,975,631	-	396,603,698	
Power and pumping stations - machinery	352,957,605	13,815,272	-	366,772,877	
Distribution systems	318,178,664	46.768,402	(2,664,244)	362,282,822	
Sewerage collection	616,199,180	129,175,333	(2.679.099)	742,695,414	
Canals and subsurface drainage	894,121,872	22,688,678	-	916,810,550	
Treatment plants	206,081,699	995,748	-	207,077,447	
Connections and meters	105,461,284	1.611,336	(158,155)	106,914,465	
Power transmission	36,491,223	870.406	-	37,361,629	
General plant and buildings	311,898,675	22,081,238	(443.619)	333,536,294	
Total property, plant, and equipment in					
service	3,247,651,583	242,136,287	(5.945,117)	3,483,842,753	
Construction in progress	748,072,327	253,270,472	(242,136,287)	759,206,512	
Total property, plant, and equipment	3,995,723,910	495,406,759	(248,081,404)	4,243,049,265	
Accumulated Depreciation					
Power and pumping stations - buildings	152,824,897	6.940,565	-	159,765,462	
Power and pumping stations - machinery	186,124,471	9,168,242	-	195,292,713	
Distribution systems	55,009,815	4,947,305	(2,664,244)	57,292,876	
Sewerage collection	66,080.583	10,379,263	(2.679,097)	73,780,749	
Canals and subsurface drainage	102,067,331	9,304,163	-	111,371,494	
Treatment plants	76,756,379	4.141,549	-	80,897,928	
Connections and meters	40,212,101	2,138,289	(158,155)	42,192,235	
Power transmission	17,028,057	731,797	-	17,759.854	
General plant and buildings	280,527,479	15,750,017	(443,619)	295,833,877	
Total accumulated depreciation	976,631,113	63.501,190	(5.945,115)	1,034,187,188	
Net property, plant, and equipment	\$ 3,019,092,797	\$ 431.905,569	<u>\$ (242,136,289)</u>	\$ 3,208,862,077	

Interest capitalized was as follows for the years ended December 31:

		2019		2018
Interest income	S	2,593,342	S	2,955,770
Interest expense		(22,599,934)		(23,685,923)
Net interest capitalized	S	(20,006,592)	Ş	(20,730,153)

5. Due to City of New Orleans

The Board bills and collects sanitation charges on behalf of the City of New Orleans (the City). The Board is not liable for any uncollected sanitation charges. Additionally, amounts included in accounts payable due to the City for works performed by the Department of Public Works on behalf of the Board, were \$1,143,277 and \$5,988,758 at December 31, 2019 and 2018, respectively.

NOTES TO FINANCIAL STATEMENTS (Continued)

6. Long-Term Obligations

A. Bonds Payable

Bonds payable consisted of the following as of December 31:

	Principal Balances		
	2019	2018	
0.45% sewerage service subordinate revenue bonds, series 2011 (initial average interest cost 0.95%): due in annual principal installments ranging from \$411,000 to \$491,000: final payment due December 1, 2032.	\$ 6,040,000	\$ 6,475,000	
2.00% to 4.00% drainage system limited tax bonds, series 2014 (initial average interest cost 1.88%); due in annual principal installments ranging from \$535,000 to \$2,000,000; final payment due December 1, 2022.	5,850,000	7,665,000	
2.00% to 5.00% sewerage service revenue bonds, series 2014 (initial average interest cost 3.86%): due in annual principal installments ranging from \$1,970,000 to \$12,970.000; final payment due June 1, 2044.	99,365,000	110,440,000	
5.00% water revenue bonds, series 2014 (initial average interest cost 4.43%); due in annual principal installments ranging from \$325,000 to \$6,225,000; final payment due December 1, 2044.	95,200,000	98,000,000	
4.98% water revenue bonds, series 2015 (initial average interest cost 4.38%); due in annual principal installments ranging from \$325,000 to \$6,225,000; final payment due December 1, 2045.	98,525,000	99,300,000	
5.00% sewerage service revenue bonds, series 2015 (initial average interest cost 4.39%); due in annual principal installments ranging from \$325,000 to \$6,225,000; final payment due December 1, 2045.	100,000,000	100,000,000	
0.95% sewerage service revenue bonds, series 2019; due in annual principal installments ranging from 4.56% to 100% of outstanding principal balance; final payment due June 1, 2040.			
Debt not fully drawn down at December 31, 2019.	127,550	-	
	405,107,550	421,880,000	
Plus: bond premiums	35,257,801	37,717,050	
Total	440,365,351	459,597,050	
Less: current maturities	(17,819,000)	(16,900,000)	
Bond payable, long-term	\$ 422,546,351	\$ 442,697,050	

NOTES TO FINANCIAL STATEMENTS (Continued)

6. Long-Term Obligations (continued)

A. Bonds Payable (continued)

The changes in long-term debt were as follows:

	2019		2018
Balance, beginning of year	\$ 421,880,000	S	439,341,000
Proceeds	127,550		-
Payments	(16,900,000)		(17,461,000)
Balance, end of year	\$ 405,107,550	S	421,880,000

The annual requirements to amortize bonds payable as of December 31, 2019, are as follows:

Year	Principal	Interest	Total
2020	S 17,819,00	00 \$ 19,389,996	S 37,208,996
2021	17,580,55	50 18,581,121	36,161,671
2022	16,087,00	00 17,836,752	33,923,752
2023	10,756,00	00 17,215,265	27,971,265
2024	10,821,00	00 16,701,987	27,522,987
2025-2029	51,749,00	00 76,343,779	128,092,779
2030-2034	65,470,00	00 62,684,666	128,154,666
2035-2039	83,390,00	00 44,782,375	128,172,375
2040-2044	106,740,00	00 21,432,000	128,172,000
2045	24,695,00	938,125	25,633,125
	\$ 405,107,55	50 \$ 295,906,066	S 701,013,616

NOTES TO FINANCIAL STATEMENTS (Continued)

6. Long-Term Obligations (continued)

A. Bonds Payable (continued)

The annual requirements to pay principal revenue bonds and tax bonds payable as of December 31, 2019, are as follows:

Year	Revenue Bonds	Tax Bonds	Total
2020	S 15,924,000	S 1,895,000	S 17,819,000
2021	15,625,550	1,955,000	17,580,550
2022	14,087,000	2,000,000	16,087,000
2023	10,756,000	-	10,756,000
2024	10,821,000	-	10,821,000
2025-2029	51,749,000	-	51,749,000
2030-2034	65,470,000	-	65,470,000
2035-2039	83,390,000	-	83,390,000
2040-2044	106,740,000	-	106,740,000
2045	24,695,000		24,695,000
	\$ 399,257,550	S 5,850,000	S 405,107,550

The indentures under which these bonds were issued provide for the establishment of restricted funds for debt service as follows:

- 1. Debt service funds are required for the payment of interest and principal on the revenue and tax bonds. Monthly deposits on revenue bonds, excluding bond anticipation notes, are required to be made into this fund from operations in an amount equal to 1/6 of the interest falling due on the next interest payment date, and an amount equal to 1/12 of the principal falling due on the next principal payment date. All debt service funds are administered by the Board of Liquidation. The required amount to be accumulated in this fund was \$25,431,836 and \$27,634,803 at December 31, 2019 and 2018, respectively; the accumulated balance at December 31, 2019 and 2018 was \$25,431,836 and \$27,634,803 respectively.
- 2. The water bonds require an amount equal to the largest amount required in any future calendar year to pay the principal of and interest on outstanding bonds. The sewer bonds require an amount equal to 125% of average aggregate debt service. The amounts required to be accumulated in this fund were \$18,407,782 at December 31, 2019 and 2018; the accumulated balance at December 31, 2019 and 2018 was \$18,407,782.

Operating revenues, net of operating expenses, are pledged as security for all revenue bond issues.

NOTES TO FINANCIAL STATEMENTS (Continued)

6. Long-term Obligations (continued)

B. Sewerage Service Revenue Bonds, Series 2011

The City entered into an agreement with the Louisiana Department of Environmental Quality (LDEQ) whereby the LDEQ has committed to loan the Board \$9,000,000 to fund sewer main replacements, point repairs, replacement of associated service connections and laterals, sewer line rehabilitation by cured in-place pipe lining and manhole rehabilitation. The loan is to be advanced in incremental amounts as project costs are incurred. The indebtedness to the LDEQ will be evidenced through the Sewerage Service Subordinate Revenue Bonds, Series 2011. Upon issuance of subsequent bonds, the indebtedness was to spring from subordinate to a senior lien status. That conversion took place with the issuance of the Series 2014 bonds. Annual principal payments are due beginning November 1, 2013 continuing through December 1, 2032. Interest on the bonds is incurred at the rate of 0.45%, and the LDEQ administrative fee rate is 0.5%. Interest and administrative fee payments began on May 1, 2012 and are due semi-annually thereafter. As of December 31, 2019 and 2018, \$6,040,000 and \$6,475,000 is included as bonds payable, respectively.

C. Series 2014 Bonds

During 2014, the Board refunded the Series 1997, 1998, 2000, 2000B, 2001, 2002, 2003, 2004, and 2009 Sewerage bonds. The Board issued \$158,990,000 in Series 2014 Sewerage Service Revenue and Refunding Bonds with a final maturity of June 1, 2044. The bond proceeds, less issuance costs, and investments were used to refund the outstanding principle balance of the sewerage bonds in the amount of \$121,870,000. By refunding these bonds, the Board estimated \$20,696,313 in future savings related to future interest and principal payments. The Board estimated an economic gain of approximately \$18,397,306. The cost of issuance of the Series 2014 Sewerage Bonds totaled \$1,345,380, and the deferred loss on refunding was \$4,708,925. Bond proceeds of \$47,300,000 were restricted for capital projects.

During 2014, the Board refunded the Series 1998 and 2002 Water Bonds. The Board issued \$103,525,000 in Series 2014 Water Revenue and Refunding Bonds with a final maturity of December 1, 2044. The bond proceeds, less issuance costs, and investments were used to refund the outstanding principle balance of the Water Bonds in the amount of \$27,655,000. By refunding these bonds, the Board estimated \$1,359,352 in future savings related to future interest and principal payments. The Board estimated an economic gain of approximately \$2,738,262. The cost of issuance of the Series 2014 Water Bonds totaled \$1,040,131 and the deferred loss on refunding was \$34,901. Bond proceeds of \$77,000,000 were restricted for capital projects.

During 2014, the Board refunded the Series 1998 and 2002 Drainage Bonds. The Board issued \$14,900,000 in Series 2014 Drainage Refunding Bonds with a final maturity of December 1, 2022. The bond proceeds, less issuance costs, and investments were used to refund the outstanding principle balance of the Drainage Bonds in the amount of \$16,205,000. By refunding these bonds, the Board estimated \$2,968,676 in future savings related to future interest and principal payments. The Board estimated an economic gain of approximately \$2,846,558. The cost of issuance of the Series 2014 Drainage Refunding Bonds totaled \$263,828, and the deferred loss on refunding was \$347,533.

NOTES TO FINANCIAL STATEMENTS (Continued)

6. Long-term Obligations (continued)

D. Series 2015 Bonds

During 2015, the Board issued \$100,000,000 in Series 2015 Water Revenue Bonds with an original issue premium of \$12,686,122 and a final maturity of December 1, 2045. In addition, the Board issued \$100,000,000 in Series 2015 Sewerage Revenue Bonds with an original issue premium of \$12,826,410 and a final maturity date of December 1, 2045. Proceeds from such bonds were used to finance capital improvements.

E. Sewerage Service Revenue Bonds, Series 2019

The City entered into an agreement with the Louisiana Department of Environmental Quality (LDEQ) whereby the LDEQ has committed to loan the Board \$10,000,000 to fund sewer main replacements, point repairs, replacement of associated service connections and laterals, sewer line rehabilitation by cured in-place pipe lining and manhole rehabilitation. The loan is to be advanced in incremental amounts as project costs are incurred. The indebtedness to the LDEQ will be evidenced through the Sewerage Service Revenue Bonds, Series 2019. Annual principal payments are due beginning June 1, 2021 continuing through June 1, 2040. Interest on the bonds is incurred at the rate of 0.95%, and the LDEQ administrative fee rate is 0.5%. Interest and administrative fee payments began on June 1, 2020 and are due semi-annually thereafter. As of December 31, 2019, \$127,550 is included as bonds payable.

F. <u>Debt Service Assistance</u>

Debt Services Assistance Fund loan payable as of December 31, 2019 and 2018, are as follows:

	2019			2018
Balance, beginning of year	S	47,756,909	S	52,603,109
Proceeds		-		-
Payments		(5,067,022)		(4,846,200)
Balance, end of year	S	42,689,887	S	47,756,909

In July 2006, the Board and the State of Louisiana (the State) entered into a Cooperative Endeavor Agreement whereby the State agreed to lend up to \$77,465,247 from State funds on deposit in the Debt Service Assistance Fund, authorized by the Gulf Opportunity Zone Act of 2005 and Act 41 of the First Extraordinary Session of the Louisiana Legislature of 2006, to assist in payment of debt service requirements from 2006 through 2008 due to disruption of tax bases and revenue streams caused by Hurricanes Katrina and Rita. Draw downs on the loan were made as debt service payments became due. No principal or interest was payable during the initial five-year period of the loan. After the expiration of the initial five-year period, the loan shall bear interest at a fixed rate of 4.64 percent. Principal payments on the bonds began in July 2012. In July 2019, the Cooperative Endeavor Agreement was amended by the State and the Board to allow annual payments to be deferred through 2031. In addition, the outstanding loan balances for the Drainage and Water funds of the Board were assumed/transferred to the Sewerage fund. Upon the amendment, interest is payable semi-annually on January 15 and July 15 beginning July 2020. The loan will mature in January 2031. The loan may be prepaid without penalty or premium.

NOTES TO FINANCIAL STATEMENTS (Continued)

6. Long-term Obligations (continued)

F. Debt Service Assistance (continued)

As of December 31, 2019, debt service requirements relating to the loan is as follows:

Year		Principal		Principal		Interest		Total
2020	S	2,650,800	\$	1,485,808	S	4,136,608		
2021	2,773,797			867,542		3,641,339		
2022		2,902,502		2,902,502 738,838		738,838		3,641,340
2023		3,037,178		604,161		3,641,339		
2024		3,178,103		463,236		3,641,339		
2025-2029		23,305,800		3,014,546		26,320,346		
2030-2031		4,841,707		1,108,978		5,950,685		
	S	42,689,887	\$	8,283,109	S	50,972,996		

G. Southeast Louisiana Project

In 2010, the Coastal Protection and Restoration Authority of Louisiana entered into agreements (SELA PPA and SELA DPA) with the Department of the Army for the Southeast Louisiana, Louisiana Project in Jefferson and Orleans Parishes (the Project). The purpose of the Project is to provide flood damage reduction and interior drainage for Orleans and Jefferson Parishes in southeast Louisiana. The agreements set forth the obligations of the federal government and non-federal sponsors, including the Board, regarding the construction and the operation, maintenance, repair, rehabilitation, and replacement of the Project. For the projects, the federal government is responsible for 65% of the project costs and the non-federal sponsors are responsible for the remaining 35%. Project costs are included in the capital assets of the Board.

Under the agreement, the Department of the Army, subject to the availability of funds appropriated by the Congress of the United States, shall design and construct specified work at 100% federal expense. The Board will be allowed to defer payment of its required non-federal contribution of funds of 35% and to pay said contribution of funds with interest over a period of not more than 30 years from the date of completion of the project or separable element of the project. The interest rate to be used in computing the interest shall be determined by the Secretary of the Treasury, taking into consideration average market yields on outstanding marketable obligations of the United States with remaining periods of maturity comparable to the payment period during the month preceding the Government fiscal year in which the first federal construction contract for such separable element is awarded to the SELA PPA, plus a premium of one-eighth of one percentage point for transaction costs. The amount due, including accrued interest, as of December 31, 2019 and 2018 is \$250,343,870 and \$227,139,545, respectively. Total amount due is expected to increase through October 2021, estimated project completion date.

NOTES TO FINANCIAL STATEMENTS (Continued)

6. Long-term Obligations (continued)

G. Southeast Louisiana Project (continued)

At December 31, 2019, the Board is responsible for 35% of construction costs incurred for the Project that consists of 16 contracts, grouped in 5 basins. Expected project completion date, payment start date, as well as interest rate for each basin are as follows:

Estimated	Estimated Payment Start Date	Interest Rate
		multist Rate
2026	2026	3.875%
Late 2020	2021	3.875%
	Completion Date 2026 Late 2020 Late 2020 Late 2020	Completion Date Start Date 2026 2026 Late 2020 2021 Late 2020 2021 Late 2020 2021 Late 2020 2021

During 2012 through 2019, the Board accrued approximately \$35.5 million of interest on construction costs incurred to date. Final amount due for each basin will be determined by the Department of Army upon project completion.

Year	Principal	Interest	Total
2020	\$ -	\$ -	\$-
2021	(636,077)	9,673,096	9,037,019
2022	3,000,579	6,036,440	9,037,019
2023	3,116,852	5,920,167	9,037,019
2024	3,237,630	5,799,389	9,037,019
2025-2029	4,032,576	68,145,173	72,177,749
2030-2034	35,542,273	43,383,640	78,925,913
2035-2039	42,983,362	35,942,551	78,925,913
2040-2044	51,982,308	26,943,604	78,925,912
2045-2049	62,865,265	16,060,648	78,925,913
2050-2054	37,722,676	5,055,161	42,777,837
2055	6,496,426	251,737	6,748,163
	\$ 250,343,870	\$ 223,211,606	\$ 473,555,476

As of December 31, 2019, projected debt service requirements relating to the total amount due are as follows:

*Note: Future payments are first applied toward interest accrued to-date since inception, resulting negative principal payments in year 2021.

NOTES TO FINANCIAL STATEMENTS (Continued)

7. Defined Benefit Pension Plan

A. Plan Descriptions

The Board has a single-employer contributory retirement plan covering all full-time employees, the Pension Trust Fund (PTF). The Board's payroll for current employees covered by the PTF for the years ended December 31, 2019 and 2018 was \$53,213,682 and \$50,679,697, respectively; such amounts exclude overtime and standby payroll. As of the most recent valuation date (December 31, 2018), the PTF membership consisted of:

Retirees and	
terminated	1,034
receiving them	
Current employees:	1,210
Total	2,244

Benefits Provided

The benefit provisions were established by action of the Board in 1956 in accordance with Louisiana statutes. The Board retains exclusive control over the plan through the Pension Committee of the Board. Effective January 1, 1996, the plan became qualified under Internal Revenue Code Section 401(a) and thus is tax exempt.

The plan provides for retirement benefits as well as death and disability benefits. All benefits vest after five years of service. Employees who retire at or after age 65 with ten years of credited service are entitled to an annual retirement benefit, payable biweekly for life, in an amount equal to two percent of their average compensation for each year of credited service up to ten years, increasing by (1) one-half percent per year for service years over ten years, (2) an additional one-half percent per year for service years over ten years, (2) an additional one-half percent per year for service years over ten years of credited service. Average compensation is the average annual earned compensation (prior to 2002, less \$1,200) for the period of 36 successive months of service during which the employee's compensation was the highest. Employees may retire prior to age 62 without 30 years of service with a reduction in benefits of three percent for each year of age below the age of 62. If an employee leaves covered employment or dies before three years of age below the age of 62. If an employee contributions plus related investment earnings are refunded to the employee or designated beneficiary.

The retirement allowance for retirees over age 65 is subject to a cost of living adjustment each January 1, provided that the member retired on or after January 1, 1984. The adjustment is based on the increase in the Consumer Price Index for all urban wage earners published by the U.S. Department of Labor but is limited to an annual maximum of two percent on the first \$10,000 of initial retirement benefits.

NOTES TO FINANCIAL STATEMENTS (Continued)

7. Defined Benefit Pension Plan (continued)

A. <u>Plan Descriptions (continued)</u>

Effective September 23, 1993, employers may transfer credit between the Board's plan and the City of New Orleans' retirement system with full credit for vested service. The Board and its employees are obligated under plan provisions to make all required contributions to the plan. The required contributions are actuarially determined. Level percentage of payroll employer contribution rates is determined using the entry age normal actuarial funding method. Employees are required to contribute four percent of their regular salaries or wages.

Deferred Retirement Option Program (DROP)

Beginning in 1996, the Board offered employees a "Deferred Retirement Option Plan" (DROP), an optional retirement program which allows an employee to elect to freeze his or her retirement benefits but continue to work and draw a salary for a minimum period of one year to a maximum period of five years. While continuing employment, the retirement benefits are segregated from overall plan assets available to other participants. As of December 31, 2019 and 2018, 99 and 116 employees, respectively, participated in the plan. The amount of plan assets segregated for these individuals was \$10,490,312 and \$9,774,961 as of December 31, 2019 and 2018, respectively.

B. Funding Policy

The actuary determined contribution requirement for the Board was 21.328% and 20.170% for 2019 and 2018. The contribution requirement for employees for the years ended December 31, 2019 and 2018 was 6.0%. The actual Board's and employees' contributions (including contributions for transferred employees from other pension plans) for the years ended December 31 were as follows:

	 2019	2018		
Employer	\$ 10,466,009	\$	8,419,441	
Employee	 2,793,158		2,535,027	
Total contributions	\$ 13,259,167	\$	10,954,468	

C. <u>Net Pension Liability</u>

The Board's Net Pension Liability was measured as of December 31, 2019 and 2018. The Total Pension Liability used to calculate the Net Pension Liability was determined as of that date.

D. Actuarial Assumptions

The employer's net pension liability reported for the fiscal year ending December 31, 2019 was measured as of December 31, 2019, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of December 31, 2018 and rolled forward twelve months to December 31, 2019.

NOTES TO FINANCIAL STATEMENTS (Continued)

7. Defined Benefit Pension Plan (continued)

D. Actuarial Assumptions (continued)

The total pension liability was determined by an actuarial valuation as of December 31, 2019 and 2018 using the following actuarial assumptions:

	2019	2018
Investment rate of return	7.00%	7.00%
Inflation	2.50%	2.00%
Salary increases including inflation	5.00%	5.00%

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by an asset allocation percentage which is based on the nature and mix of current and expected plan investments and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the Pension Trust Fund's current and expected asset allocation as of December 31, 2019 are summarized in the following table:

	Long-Term Expected
Asset Class	Real Rate of Return
US Large Cap Equities	6.75%
US Small/Mid Cap Equities	7.25%
International Equities	4.75%
Core-Plus Fixed Income	3.75%
Hedge Funds	7.00%
Real Estate/REITs	4.00%
Cash and Equivalents	0.50%
Total	N/A

Discount Rate

The discount rate used to measure the total pension liability was 7% for the 2019 and 2018 plan years. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rate and that the plan's contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the PTF's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

NOTES TO FINANCIAL STATEMENTS (Continued)

7. Defined Benefit Pension Plan (continued)

E. Actuarial Assumptions (continued)

Investment Rate of Return

The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested. For the years ended December 31, 2019 and 2018, the annual money-weighted rates of return on pension plan investments, net of pension plan investment expenses, were 15.97% and -3.31%, respectively.

Sensitivity of the Net Pension Liability to Change in the Discount Rate

The following presents the net pension liability of the Board as of December 31, 2019 and 2018, calculated using the discount rate of 7%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6%) or 1-percentage-point higher (8%) than the current rate.

		1% Decrease 6%	Di	Current scount Rate 7%	1% Increase 8%
December 31, 2019					
Total pension liability	S	377,953,504	S	344,719,120	\$ 316,532,054
Fiduciary net position		239,677,702		239,677,702	239,677,702
Net pension liability		138,275,802		105,041,418	76,854,352
December 31, 2018					
Total pension liability	\$	372,533,875	S	339,153,248	\$ 310,824,053
Fiduciary net position		215,279,783		215,279,783	215,279,783
Net pension liability		157,254,092		123,873,465	95,544,270

NOTES TO FINANCIAL STATEMENTS (Continued)

7. Defined Benefit Pension Plan (continued)

F. <u>Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows</u> of Resources Related to Pensions

	Т	otal Pension Liability (a)	ability Net Position		Net Pension Liability (a)-(b)	
Balances at	S	339,153,248	\$	215,279,783	S	123,873,465
December 31, 2018						
Changes for the year:						
Service cost		4,812,452		-		4,812,452
Interest		23,277,459		-		23,277,459
Difference between expected and actual experience		_		_		_
Contributions – employer		_		10,466,009		(10,466,009)
Contributions – employee		-		2,793,158		(2,793,158)
Net investment income		-		33,662,791		(33,662,791)
Benefit payments, including refunds of employee						
contributions		(22,861,142)		(22,861,142)		-
Other		337,103		337,103		-
Administrative expense		-		_		-
Net changes		5,565,872		24,397,919		(18,832,047)
Balances at						
December 31, 2019	S	344,719,120	\$	239,677,702	S	105,041,418

NOTES TO FINANCIAL STATEMENTS (Continued)

7. Defined Benefit Pension Plan (continued)

F. <u>Pension Liabilities</u>, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions (continued)

	Total Pension Liability		Plan Fiduciary Net Position		Ν	Vet Pension Liability
		(a)		(b)	(a)-(b)	
Balances at	S	318,218,035	\$	235,284,317	S	82,933,718
December 31, 2017						
Changes for the year:						
Service cost		4,354,989		-		4,354,989
Interest		21,763,800		-		21,763,800
Difference between expected						
and actual experience		(5,689,086)		-		(5,689,086)
Changes of assumptions		23,596,233		-		23,596,233
Contributions - employer		-		8,419,441		(8,419,441)
Contributions – employee		-		2,535,027		(2,535,027)
Contributions – fines		-		-		-
Net investment income		-		(7,868,279)		7,868,279
Benefit payments, including						
refunds of employee						
contributions		(23,323,178)		(23,323,178)		-
Other		232,455		232,455		-
Administrative expense		-		-		-
Net changes		20,935,213		(20,004,534)		40,939,747
Balances at						
December 31, 2018	S	339,153,248	\$	215,279,783	S	123,873,465

For the years ended December 31, 2019 and 2018, the Board recognized a pension expense of \$19,657,822 and \$21,377,012, respectively, in payroll related expense on the statements of revenues, expenses, and changes in net position.

NOTES TO FINANCIAL STATEMENTS (Continued)

7. Defined Benefit Pension Plan (continued)

F. <u>Pension Liabilities</u>, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions (continued)

On December 31, 2019 and 2018, the Board recorded Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions from the following sources:

	Deferred Outflows of Resources		Iı	Deferred Iflows of esources
<u>December 31, 2019</u>				
Differences between expected and actual experience	\$	6,907,204	S	3,655,583
Changes of assumptions		11,798,117		-
Net difference between projected and actual				
earnings on pension plan investments		-		3,482,725
Total	\$	18,705,321	S	7,138,308
<u>December 31, 2018</u>				
Differences between expected and actual experience	\$	8,093,186	S	5,606,319
Changes of assumptions		17,697,175		-
Net difference between projected and actual				
earnings on pension plan investments		19,406,829		-
Total	\$	45,197,190	S	5,606,319

Amounts recorded as Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions will be recognized in pension expense as follows:

Year Ended	
December 31	 Amount
2020	\$ 5,047,753
2021	4,768,325
2022	2,185,170
2023	(2,597,515)
2024	1,081,642
Thereafter	1,081,638

G. The Board's Pension Plan Fiduciary Net Position

A separate report on the pension trust fund is not issued.

NOTES TO FINANCIAL STATEMENTS (Continued)

8. Other Post-Employment Benefits

Plan Description – The Board's post-employment benefit plan is a single-employer defined benefit plan. The Board's post-employment medical benefits for retirees are provided through a self-insured medical plan and are made available to employees upon actual retirement.

Participation – All active Employees as defined in the Rules and Regulations of the Employees' Retirement System of the Board, which is generally an employee who regularly works more than 17.5 hours per week, are eligible to participate in the plan.

Employees covered by benefit terms – As of the most recent valuation date (December 31, 2018), the following employees were covered by the benefit terms:

Inactive employees or beneficiaries currently receiving benefit payments	659
Inactive employees entitled to but not yet receiving benefit payments	-
Active employees	1,326
	1,985

Total OPEB Liability

The Board's total OPEB liability of S195,228,094 was measured as of December 31, 2019, and was determined by an actuarial valuation as of December 31, 2018 with such results rolled-forward twelve months to December 31, 2019.

Actuarial Assumptions and other inputs – The total OPEB liability in the December 31, 2019 and 2018 actuarial valuation was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement, unless otherwise specified:

Inflation	2.5%
Salary increases	5.0%, including inflation
Healthcare cost trend rates	7.5% for FY20 decreasing 0.6% per year to an ultimate rate of 4.5% for FY25 and later years
Mortality	1994 Uninsured Pensioner (UP-94) mortality table, projected to 2002 using Scale AA, gender distinct

The discount rate used to measure the total OPEB liability as of December 31, 2019 was 2.74%. The discount rate used to determine the total OPEB liability as of December 31, 2018 was 4.10%.

Municipal Bond Rate: 2.74% as of December 31, 2019 and 4.10% as of December 31, 2018; the source of the municipal bond rate is the Bond Buyer Index of general obligation bonds with 20 years to maturity and mixed credit quality. In describing their index, the Bond Buyer notes that the bonds' average credit quality is roughly equivalent to Moody's Investors Service's Aa2 rating and Standard & Poor's Corp.'s AA.

NOTES TO FINANCIAL STATEMENTS (Continued)

8. Other Post-Employment Benefits (continued)

The actuarial assumptions used in the December 31, 2019 valuation were based on the results of ongoing evaluations of the assumptions from December 31, 2018 to December 31, 2019.

Changes in the Total OPEB Liability 2019

Balance at December 31, 2018	S	158,612,265
Changes for the year:		
Service cost		4,509,679
Interest		6,533,926
Changes of benefit terms		-
Differences between expected and actual experience		-
Changes of assumptions or other inputs		33,088,043
Benefits payments (employer)		(7,515,819)
Other		-
Net changes		36,615,829
Balance at December 31, 2019	S	195,228,094
Changes in the Total OPEB Liability 2018		
Balance at December 31, 2017	S	170,658,516
Changes for the year:		
Service cost		5,134,251
Interest		5,926,129
Changes of benefit terms		-
Differences between expected and actual experience		-
Changes of assumptions or other inputs		(16,063,510)
Benefits payments (employer)		(7,043,121)
Other		-
Net changes		(12,046,251)
Balance at December 31, 2018	S	158,612,265

NOTES TO FINANCIAL STATEMENTS (Continued)

8. Other Post-Employment Benefits (continued)

Sensitivity of the total OPEB liability to changes in the discount rate – The following presents the total OPEB liability of the Board, as well as what the Board's total OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher than the current discount rate at December 31, 2019 and 2018:

	1%	Current	1%
	Decrease	Discount Rate	Increase
December 31, 2019	(1.74%)	(2.74%)	(3.74%)
Total OPEB liability	S 228,723,319	S 195,228,094	\$ 168,663,371
	1%	Current	1%
	Decrease	Discount Rate	Increase
December 31, 2018	(3.10%)	(4.10%)	(5.10%)
Total OPEB liability	S 183,952,950	\$ 158,612,265	\$ 138,332,446

Sensitivity of the total OPEB liability to changes in the healthcare cost trend rates – The following presents the total OPEB liability of the Board, as well as what the Board's total OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower or 1-percentage-point higher than the current healthcare trend rates at December 31, 2019 and 2018:

		Current	
1% He:		Healthcare Cost	1%
	Decrease	Trend Rate	Increase
December 31, 2019	(6.50%)	(7.50%)	(8.50%)
Total OPEB liability	\$ 169,506,699	\$ 195,228,094	\$ 227,476,782
		Current	
	1%	Healthcare Cost	1%
	Decrease	Trend Rate	Increase
December 31, 2018	(6.00%)	(7.00%)	(8.00%)
Total OPEB liability	\$ 138,545,322	\$ 158,612,265	\$ 183,379,817

NOTES TO FINANCIAL STATEMENTS (Continued)

8. Other Post-Employment Benefits (continued)

OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the year ended December 31, 2019 and 2018, the Board recognized OPEB expense of \$15,357,938 and \$7,044,502, respectively. At December 31, 2019 and 2018, the Board reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	Deferred Outflows of Resources		Deferred Inflows of Resources	
December 31, 2019				
Changes of assumptions or other inputs	S	24,816,033	S	8,031,751
Total	S	24,816,033	S	8,031,751
December 31, 2018				
Changes of assumptions or other inputs	\$	-	S	12,047,631
Total	\$	-	S	12,047,631

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

Year Ended December 31	Amount	
2020	\$	4,256,133
2021		4,256,133
2022		8,272,016

NOTES TO FINANCIAL STATEMENTS (Continued)

9. Commitments

A. Capital Improvements

At December 31, 2019, the Board's budget for its ten-year capital improvements program totaled approximately \$3.0 billion, which includes \$325 million in capital expenditures for the year ending December 31, 2020 and provides for the following activities:

- Continue Joint Infrastructure Recovery Road in conjunction with City of New Orleans Department of Public Works;
- Comply with regulatory requirements under the Sewer Consent Decree;
- Complete rehabilitation of Claiborne pumping station (phase II) of Water Hammer project;
- Participate in drainage system improvements in coordination with SELA Program;
- Initiate Automated Meter Infrastructure project.

Due to certain regulatory and legislative changes, additional capital improvements will probably be required. Future capital improvement program expenditures may require the issuance of additional debt depending on the amount and timing of expenditures. As of December 31, 2019, the Board has committed or appropriated \$8,166,346 in investments for use in future capital projects and has \$4,216,858 of cash and cash equivalents restricted for future capital projects.

B. Self-insurance

The Board is self-insured for general liability, workers' compensation, and hospitalization benefits and claims. Settled claims have not exceeded excess coverage in any of the past three fiscal years. Hospitalization benefits are charged to payroll related expense.

General liability claims are segregated internally by "claims" and "suits" depending on the scope and type of claim and are handled by the Office of the Special Counsel and Administrative Services. Individual general liability losses have ranged from \$100 to \$7,500,000, illustrating the volatility of this exposure. The claims expense (recovery) provision for 2019 and 2018 amounted to \$(878,197) and \$(10,544,357), respectively.

Worker's compensation expense provision for 2019 and 2018 amounted to \$2,925,850 and \$4,228,002, respectively.

The medical claims for our self-insured health plan are administered by "The Health Plan," our third party administrator. The Board's expense provision in excess of employee contributions for 2019 and 2018 was \$20,704,753 and \$21,562,359, respectively, and is included in payroll related expenses.

NOTES TO FINANCIAL STATEMENTS (Continued)

9. Commitments (continued)

A. Self-insurance

Changes in the claims payable amount are as follows (health payments are reflected net):

	2019	2018
Beginning of Year	\$ 48,422,742	\$ 59,160,395
Current Year Claims and Estimate Change	22,752,406	15,246,004
Claim Payments	(24,341,310)	(25,983,657)
End of Year	\$ 46,833,838	\$ 48,422,742

The composition of claims payable is as follows:

	2019	2018
Short-term:		
Workers' compensation	\$ 1,737,675	S 2,129,709
Health insurance	1,887,000	2,225,002
Total short-term	3,624,675	4,354,711
Long-term:		
Workers' compensation	776,766	757,437
General liability	42,432,397	43,310,594
Total long-term	43,209,163	44,068,031
Total	\$ 46,833,838	\$ 48,422,742

B. Regulatory Matters

The Sewer System Evaluation and Rehabilitation Program (SSERP) was initially estimated to cost the Board \$408.2 million by the original Consent Decree with an end date of 2015. However, the Board has negotiated, and continues to negotiate with U.S. Environmental Protection Agency (EPA), extensions beyond the original Consent Decree deadline. Consequently, the original Consent Decree has been modified to currently provide an end date of October 2025.

The Board participates in a number of federal programs which are governed by various rules and regulations. Costs charged to the respective grant programs are subject to audit and adjustment by the grantor agencies; therefore, to the extent that the Board has not complied with the rules and regulations governing the grants, refunds of any money received and the collectability of any related receivable as of December 31, 2019 might be impaired. In management's opinion, there are no significant contingent liabilities relating to compliance with the rules and regulations governing state and federal grants; therefore, no provision has been recorded in the accompanying financial statements for such contingencies. Audits of prior years have not resulted in any significant disallowed costs or refunds. Any costs that would be disallowed would be recognized in the period agreed upon by the grantor agency and the Board.

NOTES TO FINANCIAL STATEMENTS (Continued)

10. Deferred Compensation Plan

The Board offers its employees a deferred compensation plan created in accordance with Internal Revenue Code Section 457. This plan, available to all employees, permits them to defer a portion of their salary until future years. The deferred compensation is not available to employees until termination, retirement, death, or unforeseeable emergency. All amounts of compensation deferred under the plan, all property, and rights purchased with those amounts, and all income attributable to those amounts, property or rights are held in trust for the employees, therefore the assets of the plan are not included in these financial statements.

11. Budgets

Operating and capital expenditure budgets are adopted by the Board on a basis consistent with accounting principles generally accepted in the United States. While not legally required, this budgetary information is employed as a management control device during the year. Comparison between actual and budgeted expenses is not a required presentation for an Enterprise Fund.

12. Property Taxes

Property taxes are levied by the City of New Orleans. Taxes on real and personal property attach as an enforceable lien on the property as of January 1. Taxes are levied on January 1, payable on January 1, and delinquent on February 1.

The assessed value of the property is determined by an elected Assessor. The assessed value for 2019 and 2018 was \$3,868,662,170 and \$3,799,114,380, respectively. The combined tax rate dedicated for the Board for the years ended December 31, 2019 and 2018 was \$16.43 per \$1,000 of assessed valuation. These dedicated funds are available for operations, maintenance, construction, and extension of the drainage system (except for subsurface systems).

13. Tax Abatement Agreement

The local government is subject to certain property tax abatements granted by the Louisiana State Board of Commerce and Industry (the "State Board"), a state entity governed by board members representing major economic groups and gubernatorial appointees. Abatements to which the government may be subject include those issued for property taxes under the Restoration Tax Abatement Program ("RTAP"). For the year ending December 31, 2019, the government participated in the Restoration Tax Abatement Program.

Under the RTAP, as authorized by Article 7, Section 21(H) of the Louisiana Constitution and Louisiana Revised Statutes 47:4311, companies that expand, restore, improve or develop an existing structure or structures in a downtown, historic, or economic development district can apply to the State Board and the local governing authority for a property tax exemption. The exemptions are granted for a 5-year term and are renewable for an additional 5-year term upon the approval of the State Board and the local governing authority. The property tax abatements have resulted in reductions of property taxes, which the tax assessor administers as a temporary reduction in the assessed value of the property involved. The abatement agreements stipulate a percentage reduction of property taxes, which can be as much as 100 percent. The local government may recapture abated taxes if a company fails to expand facilities or otherwise fail to fulfill its commitments under the agreement.

NOTES TO FINANCIAL STATEMENTS (Continued)

13. Tax Abatement Agreement (continued)

During 2019, the City Council of the City of New Orleans approved tax abatement projects with a total investment value of \$11,457,691 of which \$1,101,388 was for the Board. During 2018, the City Council of the City of New Orleans approved tax abatement projects with a total investment value of \$8,815,317 of which \$859,622 was for the Board.

14. Segment Information

The Board issued revenue bonds to finance its water and sewerage departments which operate the Board's water and sewerage treatment plants and distribution and collection systems. These bonds are accounted for in a single fund; however, investors in the revenue bonds rely solely on the revenue generated by the individual activities for repayment.

Summary financial information for these departments as of and for the years ended December 31 is as follows:

	Condensed Statements of Net Position				
	Water		Se	we I'	
	2019	2018	2019	2018	
Assets:					
Current unrestricted assets	\$ 46,512,794	\$ 65,037,267	\$ 72,090,359	\$ 77,056,592	
Restricted assets	20,310,375	28,234,279	28,685,122	40,471,502	
Other assets	12,816,777	7,450,374	17,965	17,965	
Property, plant and equipment	655,189,813	615,022,462	1,097,820,025	1,088,136,124	
Total assets	734,829,759	715,744,382	1,198,613,471	1,205,682,183	
Deferred outflows of resources:	14,518,004	15,080,978	17,020,512	17,847,392	
Total assets and deferred outflows	\$ 749,347,763	\$ 730,825,360	\$ 1,215,633,983	\$ 1,223,529,575	
Liabilities:					
Current	\$ 44.319.843	\$ 52,809,779	\$ 25,585.414	S 52,746,080	
Current liabilities payable from	\$ 11,517,615	\$ 5 <u>2</u> ,009,009	¢ 20200,111	5 52,7 10,000	
restricted assets	5.181.022	5.183,196	13.980.582	14.624.635	
Noncurrent liabilities	323.596.664	329.238,177	358,898,487	365,314,515	
Total liabilities	373.097.529	387.231.152	398,464,483	432.685.230	
	313,031,527				
Deferred inflows of resources:	5,056,686	5,884,650	5,056,686	5,884.650	
Net position:					
Net investment in capital assets	448,792,587	411,583,789	873,723,687	860,979,966	
Restricted	16,580,927	16,805,167	27,203,259	29,175,408	
Unrestricted (deficit)	(94,179,966)	(90,679,398)	(88,814,132)	(105,195,679)	
Total net position	371,193,548	337,709,558	812,112,814	784,959,695	
Total liabilities, deferred inflows, and					
net position	¢ 740.247.762	¢ 720.825.270	¢ 1 015 600 000	¢ 1 202 500 575	
net position	\$ 749,347,763	\$ 730,825,360	\$ 1,215,633,983	\$ 1,223,529,575	

NOTES TO FINANCIAL STATEMENTS (Continued)

14. <u>Segment Information (continued)</u>

		Condensed S	Statements of			
	Revenues, Expenses, and Changes in Net Position					
	Wa	ter	Sewer			
	2019	2018	2019	2018		
Service charges, pledged						
against bonds	S 116,644,735	\$ 92,518,944	\$ 145,026,340	\$ 115,777,622		
Depreciation expense	(12,643,499)	(12,349,399)	(26,518,870)	(26,744,088)		
Other operating expenses	(97.668,096)	(94,075,558)	(95,220,260)	(95,538,207)		
Operating income (loss)	6,333,140	(13,906,013)	23,287,210	(6,504,673)		
Nonoperating revenues (expenses):						
Contributions from other						
local governments	6,516,802	-	9,300,681	-		
Investment earnings	729,371	422,446	653,894	342,098		
Other	(5,164,398)	1,498,085	(992,927)	2,517,871		
Interest expense	(94,819)	(4,363)	(133,416)	(190,583)		
Total nonoperating revenues (expenses)	1,986,956	1,916,168	8,828,232	2,669,386		
Capital contributions	21,414,190	28,488,912	1,174,638	13,900,807		
Change in net position	29,734,286	16,499,067	33,290,080	10,065,520		
Beginning net position	337,709,558	321,210,491	784,959,695	774,894,175		
Transfer of Debt Service Assistance Fund loan payable	3,749,704		(6,136,961)			
Ending net position	\$ 371,193,548	\$ 337,709,558	\$ 812,112,814	\$ 784,959,695		

			Con	densed Statem	e nt s	of Cash Flows		
		Water				Sewer		
		2019		2018		2019		2018
Net cash provided by (used in):								
Operating activities	S	35,824,245	\$	(13,855,629)	\$	51.569,731	\$	36,460,285
Noncapital financing activities		6,781,570		343,336		9,679,614		330,010
Capital and related financing								
activities		(56,918,526)		(22,797,065)		(72,096,991)		(57,187,256)
Investing activities		828,634		683,298		801,934		468,569
Net increase		(13,484,077)		(35,626,060)		(10.045.712)		(19,928,392)
Cash and cash equivalents:								
Beginning of year		61,148,002		96,774,062		71,350,474		91,278,866
End of year	s	47,663,925	\$	61,148,002	\$	61.304,762	\$	71,350,474
					_			

NOTES TO FINANCIAL STATEMENTS (Continued)

15. Natural Disaster

During the years ended, December 31, 2019 and 2018, the Board has cumulatively received approximately \$477.2 million and \$459.0 million, respectively, of cash reimbursements from the Federal Emergency Management Agency (FEMA). Included in accounts receivable as of December 31, 2019 and 2018 are \$284,373 and \$280,906, respectively, of reimbursements due from FEMA under the Disaster Grants program. Eligible FEMA grants totaling in excess of \$815.9 million are in various stages of the approval process and include amounts for system repairs, building repairs, vehicle and equipment repairs, and replacements, temporary power, supplies and other costs.

On June 29, 2007, the Board entered into a Cooperative Endeavor Agreement with the State of Louisiana, City of New Orleans, Louisiana, and the Louisiana Public Facilities Authority (LPFA). The LPFA agreed to issue its bonds to provide the cash capital investment to pay for capital improvements of the City of New Orleans and the Board. The establishment of the construction fund permits the Board and City of New Orleans to publicly bid contracts that are subject to a Project Worksheet that has been obligated by FEMA or for which an award letter has been received and encumber such amounts. The State of Louisiana, City of New Orleans, and Sewerage and Water Board agree that as FEMA pays any reimbursement amounts related to projects for which disbursements have been made, or the City or the Sewerage and Water Board receives monies related to the hazard mitigation grant program for which disbursements have been made from the construction fund; the full amount of such projects shall be deposited in the construction fund and used to fund additional projects until all City of New Orleans and Sewerage and Water Board improvements are completed. The total amount made available to the Board under the agreement was \$100,000,000. The agreement also permits disbursements from the construction fund for projects with a Project Worksheet that have not been obligated by FEMA, and as a result, will not be reimbursed by FEMA. The Board is not required to reimburse the construction fund for these unobligated projects. At December 31, 2019 and 2018, the Board had an outstanding obligation under the agreement of S-0- and \$11,221,710 included as a liability in due to other governments on the statements of net position, which represent amounts not yet reimbursed by FEMA for obligated projects and deposited back into the construction fund. Under the 2019 Fair Share Agreement, the liability was forgiven and the Board received all funds remaining in the Revolver account.

NOTES TO FINANCIAL STATEMENTS (Continued)

16. Recent Accounting Pronouncements

GASB Statement No. 84, *Fiduciary Activities*. This Statement establishes criteria for identifying fiduciary activities of all state and local governments. The focus of the criteria generally is on (1) whether a government is controlling the assets of the fiduciary activity and (2) the beneficiaries with whom a fiduciary relationship exists. Separate criteria are included to identify fiduciary component units and postemployment benefit arrangements that are fiduciary activities. An activity meeting the criteria should be recorded in a fiduciary fund in the basic financial statements. Governments with activities meeting the criteria should present a statement of fiduciary net position and a statement of changes in fiduciary net position. An exception to that requirement is provided for a business-type activity that normally expects to hold custodial assets for three months or less. This Statement describes four fiduciary funds that should be recorded, if applicable: (1) pension (and other employee benefit) trust funds, (2) investment trust funds, (3) private-purpose trust funds, and (4) custodial funds. The requirements of this Statement are effective for reporting periods beginning after December 15, 2019. Therefore, if applicable, the Board will implement this guidance in 2020.

GASB Statement No. 87, *Leases*. The objective of this Statement is to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. This Statement requires recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under this Statement, a lesse is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources. This is a significant change in accounting principles and may impact the net position of the Board. The requirements of this Statement are effective for fiscal years beginning after June 15, 2021. Therefore, as applicable, the Board will implement this guidance in 2022.

GASB Statement No. 88, *Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements.* This statement will improve the information that is disclosed in notes of governmental financial statements related to debt, including direct borrowings and direct placements. It also clarifies which liabilities governments should include when disclosing information related to debt. The requirements of this statement are effective for reporting periods beginning after June 15, 2019. The Board will implement this guidance in 2020.

GASB Statement No. 89, Accounting for Interest Costs Incurred before the End of a Construction Period. The Statement objectives include (1) enhancing the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period and (2) simplifying accounting for interest costs incurred before the end of a construction period. The requirements of this Statement are effective for reporting periods beginning after December 15, 2020. The Board will implement this guidance in 2021.

NOTES TO FINANCIAL STATEMENTS (Continued)

17. Current Operating Environment and Contributions from Other Local Governments

The Board's Drainage System experienced a significant increase in expenditures in 2017 and into 2018 as a result of significant flooding in the New Orleans area in 2017 and the increase in the estimate for general liability claims in 2017 which has negatively impacted the Drainage System's liquidity. The Sewerage System has made advances to the Drainage System to pay for expenditures of the Drainage System. The Board is considering ways to increase revenues for the Drainage System including additional tax revenues, increased drainage fees, applying for new government grants, and the apportionment of revenues from the Sewerage and Water Systems to the Drainage System. These new sources of revenue are intended to increase revenues to a level that will cover expenditures and begin to allow the repayment of advances from the Sewerage System to the Drainage System.

In 2019, under the leadership of Mayor LaToya Cantrell, the Board received \$28 million in one-time funding through the Fair Share program. The purpose of the Fair Share funding is to improve the provision of water, sewer, and drainage services to the residents of New Orleans. In 2019, the Board continued to consider ways to increase revenues.; the Mayor was able to secure ongoing funding under House Bills 522, 617 & 43 which is anticipated to result in \$20-\$26 million in recurring tax revenue.

18. Examination by Federal and State Agencies

During 2017, the Board was notified by the Office for Inspector General (the OIG) of the U.S. Department of Homeland Security that the OIG would be conducting an audit of FEMA Public Assistance Grant Funds awarded to the Board for the period from August 29, 2005 to September 30, 2017. The objective of the audit is to determine whether the Board accounted for and expended FEMA funds according to Federal regulations and FEMA guidelines. The OIG's report, dated March 27, 2020, noted approximately \$133 million in questioned costs, along with other findings and recommendations to help strengthen program management, performance and oversight. The Board is working in conjunction with FEMA and its grantee to address the questioned costs finding and to implement operational recommendations, as deemed appropriate.

On March 19, 2020, the Louisiana Legislative Auditor (LLA) issued a report based on its review of the circumstances surrounding the Board's letting, bidding and awarding of contracts pertaining to its new billing system. The purpose of the audit was to evaluate the Board's implementation of the new billing system and oversight of its billing processes. The LLA's report noted at least \$26.3 million in estimated free water and sewer services, along with other findings and recommendations. The Board is working to make attainable changes that can improve its delivery of water and sewer services and reduce if not eliminate requirements that free water and services be provided under state law.

19. Revenue Bonds Debt Service Coverage (Unaudited)

Each of the General Bond Resolutions governing the Series 2014 Bonds and the Series 2015 Bonds have certain covenant requirements regarding net revenue available for debt service. The net revenue available for debt service in the Board's debt service coverage calculations presented in Section III, Statistical Information (Unaudited), for the year ended December 31, 2019, is increased in the amount of \$9,504,104 related to its water bonds and \$10,852,338 related to its sewer bonds, as detailed below. These amount are opined to be extraordinary, non-recurring and non-continuing expenses by a Qualified Independent Consultant (QIC) as provided for in each respective General Bond Resolutions.

NOTES TO FINANCIAL STATEMENTS (Continued)

19. <u>Revenue Bonds Debt Service Coverage (Unaudited) (continued)</u>

	Wate r		Sewer	
Provision for doubtful accounts	\$ 9,504,104	\$	10,852,338	

The definition of extraordinary used by the QIC varies from that used in the preparation of the financial statements under generally accepted accounting principles. It should be noted that Revenues and Operating Expenses as reported in the schedules in Section III are consistent with the terms of the General Bond Resolutions and may differ from the amounts reported in the financial statements.

The Board is in compliance with these particular covenants after consideration of the above for the year ended December 31, 2019, as provided for in the respective General Bond Resolutions.

20. Subsequent Event

Management has evaluated subsequent events through the date that the financial statements were available to be issued, August 18, 2020, and determined that the following item require disclosure. No events occurring after this date have been evaluated for inclusion in these financial statements.

On March 11, 2020, the World Health Organization declared the novel strain of coronavirus (COVID-19) a global health pandemic and recommended containment and mitigation measures worldwide. Subsequent to that date, the Mayor of the City of New Orleans ordered citizens and businesses to follow specific measures designed to slow the spread of the virus. In support of our customers, the Board temporarily suspended service disconnections and late fee charges and launched a Customer Care Pay Plan for customers impacted by COVID-19 and the economic downturn. The current impact is an increase in the age of customer receivables and a reduction in billed collections. The Board has also taken actions to protect the health and safety of its employees. At this time, we cannot reasonably predict the extent to which the disruption may impact business operations or financial position over the long term.

On April 22, 2020, the Board authorized and approved \$10.2 million Sewerage Service Revenue bonds, Series 2020A to meet the match requirements of a WIFIA loan (Water Infrastructure Financing and Innovation Act) and to fund additional sewer-related projects. The Sewer 2020A Series Bonds were issued and delivered on June 10, 2020.

REQUIRED SUPPLEMENTARY INFORMATION

SEWERAGE AND WATER BOARD OF NEW ORLEANS Required Supplementary Information Under GASB Statement No. 67, 68, and 71 For the years ended December 31, 2019 and 2018

SCHEDULE OF NET PENSION LIABILITY

Actuarial Valuation Date December 31	Total Pension Liability	Plan Fiduciary Net Position	Employer's Net Pension Liability	Plan Fiduciary Net Position as a % of Total Pension Liability	Covered Payroll	Net Pension Liability as a Percentage of Payroll
2019	\$ 344,719,120	\$ 239.677,702	\$ 105,041,418	69.53%	\$ 53.213,682	197.40%
2018	339,153,248	215,279,783	123,873,465	63.48%	50.679,697	244.42%
2017	318,218.035	235,284,317	82,933,718	73.94%	41.822,648	198.30%
2016	305,105.919	224.356,261	80,749,658	73.53%	35,363,156	228.34%
2015	299,395.091	222,427.527	76,967,564	74.29%	33.672,902	228.57%
2014	296,244,723	236.556.671	59,688,052	79.85%	31,378,001	190.22%
2013	290,919,481	234.358.565	56,560,916	80.56%	29.706,715	190.40%

Note to schedule:

Until a full 10-year trend is compiled, governments should present information for those years for which information is available. History prior to 2013 is not shown in this report but is maintained in the records of the employer.

SCHEDULE OF EMPLOYER CONTRIBUTIONS

Year Ended	Actuarially Determined Contribution	Contributions in Relation to the Actuarial Determined Contribution	Contribution Deficiency (Excess)	Covered Payroll Contribution	Contributions as a % of Covered Payroll
2019	\$ 10,156,701	\$ 10,46 6 ,009	\$ (309,308)	\$ 53.213.682	19.67%
2018	8,435,598	8,419,441	16,157	50,679.697	16.61%
2017	10,545,867	7,239,467	3.306,400	41,822.648	17.31%
2016	11,024,398	6.407,201	4,617,197	35,363.156	18.12%
2015	10,799,993	6.506,652	4,293,341	33,672.902	19.32%
2014	11,171.823	6.055,890	5,115,933	31,378.001	19.30%
2013	11,086.546	5.946,614	5.139,932	29,706,715	20.02%
2012	9,127.658	6.287,658	2.840,000	29,074.529	21.63%
2011	9,815.606	5,564,936	4.250,670	29,774.937	18.69%
2010	8,358.739	5,140,096	3,218,643	29,670,378	17.32%

Note to schedule:

Valuation Date: January 1, 2019

Actuarially determined contribution rates are calculated as of January 1, 2019, which is the most recent valuation date prior to the end of the fiscal year in which contributions are reported.

Actuarial cost method	Entry age
Amortization method	Level dollar, open
Remaining amortization period	30 years
Asset valuation method	7-year smoothed market
Inflation	2.5%
Salary increases	5.0%, including inflation
Investment rate of return	7.0%, net of pension plan investment expense. including inflation
Retirement age	Earliest eligibility age, plus one year if under age 55
Mortality	1994 Uninsured Pensioner Mortality Table. projected to 2002 using Scale AA

SCHEDULE OF INVESTMENT RETURNS

Year Ended	Net Money-Weighted Rate of Return
2019	15.97%
2018	-3.31%
2017	10.52%
2016	5.42%
2015	-1.79%
2014	4.94%

Note to schedule:

This schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

(Continued)

SEWERAGE AND WATER BOARD OF NEW ORLEANS Required Supplementary Information Under GASB Statement No. 67, 68, and 71 For the years ended December 31, 2019 and 2018 (continued)

SCHEDULE OF CHANGES IN NET PENSION LIABILITY

	2019	2018	2017	2016	2015	2014
Total Pension Liability						
Service cost	\$ 4,812,452	\$ 4,354,989	\$ 3,797,316	\$ 3,030,912	\$ 2,788,621	\$ 3,417,599
Interest on total pension liability	23,277,459	21,763,800	21,357,414	20,957,657	20,737,131	20,364,364
Effect of plan changes	21	12 12	2	10	121	9 9
Effect of economic/demographic gains or (losses)	-	(5,689,086)	9,734,775	834,712	(1,978,038)	(1,721,210)
Effect of assumption changes or inputs	-	23,596,233	a	12	141	4
Benefit payments	(22,861,142)	(23,323,178)	(21,777,389)	(19,112,455)	(18,397,344)	(16,735,511)
Other	337,103	232,455				
Net change in total pension liability	5,565,872	20,935,213	13,112,116	5,710,826	3,150,370	5,325,242
Total pension liability, beginning	339,153,248	318,218,035	305,105,919	299,395,093	296,244,723	290,919,481
Total pension liability, ending (a)	344,719,120	339,153,248	318,218,035	305,105,919	299,395,093	296,244,723
Plan Fiduciary Net Position						
Employer contributions	10,466,009	8,419,441	7,239,467	6,407,201	6,506,652	6,055,890
Employee contributions	2,793,158	2,535,027	2,139,705	2,063,122	1,847,259	1,535,723
Investment income net of investment expenses	33,662,791	(7,868,279)	23,326,273	12,570,866	(4,085,711)	11,342,004
Benefit payments	(22,861,142)	(23,323,178)	(21,777,389)	(19,112,455)	(18,397,344)	(16,735,511)
Administrative expenses		-	-	0.4		-
Other	337,103	232,455	<u> </u>			<u> </u>
Net change in plan fiduciary net position	24,397,919	(20,004,534)	10,928,056	1,928,734	(14,129,144)	2,198,106
Plan fiduciary net position, beginning	215,279,783	235,284,317	224,356,261	222,427,527	236,556,671	234,358,565
Plan fiduciary net position, ending (b)	\$ 239,677,702	\$ 215,279,783	\$ 235,284,317	\$ 224,356,261	\$ 222,427,527	\$ 236,556,671
Board's net pension liability, ending = (a) - (b)	\$ 105,041,418	\$ 123,873,465	\$ 82,933,718	\$ 80,749,658	\$ 76,967,566	\$ 59,688,052
Plan fiduciary net position as a % of total pension liability	69.53%	63.48%	73.94%	73.53%	74.29%	79.85%
Covered payroll	\$ 53,213,682	\$ 50,679,697	\$ 41,822,648	\$ 35,363,156	\$ 33,672,902	\$ 31,378,001
Board's net pension liability as a % of covered payroll	197.40%	244.42%	198.30%	228.34%	228.57%	190.22%

Notes to Schedules:

This schedules:
 This schedules:
 This schedule is prepared using the optional format of combining the required schedules in Paragraph Nos. 46.a. and 46.b. of GASB No. 68. Until a full 10-year trend is compiled, governments should present information for those years for which information is available. Amounts recognized in the fiscal year represent changes between the current and prior measurement dates. History prior to 2015 is not shown in this report but is maintained by the employer.
 Information is presented using a December 31, 2019 measurement date as permitted under Paragraph No. 20 of GASB No. 68.
 City annuity and other transfers in; prior to 2018, these amounts were combined with "Benefit payments, including refunds of employee contributions".
 Total compensation (not just pensionable compensation, if different) based on census used in the valuation per Q/A No. 106 of the *Guide to Implementation of GASB Statement 68*.

SEWERAGE AND WATER BOARD OF NEW ORLEANS Required Supplementary Information Under GASB Statement No. 75 For the years ended December 31, 2019 and 2018

SCHEDULE OF CHANGES IN TOTAL OPEB LIABILITY AND RELATED RATIOS

Financial Statement Reporting Date Measurement Date	12/31/2019 12/31/2019		<u>12/31/2018</u> <u>12/31/2018</u>	
Service cost Interest Changes of benefit terms Difference between expected and actual experience Changes of assumptions or other inputs Benefit payments (employer)	\$	4,509,679 6,533,926 - - 33,088,043 (7,515,819)	\$	5,134,251 5,926,129 - (16,063,510) (7,043,121)
Net change in total OPEB liability		36,615,829		(12,046,251)
Total OPEB liability - beginning		158,612,265		170,658,516
Total OPEB liability - ending	<u> </u>	195,228,094	S	158,612,265
Covered payroll	S	53,213,682	S	50,679,697
Total OPEB liability as a percentage of covered payroll		366.88%		312.97%

Notes to Schedule:

1. This schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

2. Information is presented using measurement date which is the same as the fiscal year end.

3. There are no assets accumulated in a trust that meets the criteria of paragraph 4 of GASB 75 for this OPEB plan.

4. Benefit Changes: None.

 Changes in assumptions or other inputs for FY2019: Assumed Expenses, Assumed Per Capita Health Benefits Costs, Assumed Health Benefit Cost trend and Retiree Contribution trend have all been updated since the previous valuation. In addition, the discount rate was updated to 2.74% for the end of FY2019.
 Changes of Assumptions. Changes of assumptions and other inputs reflect the changes in the discount rate

End of year 2018	4.10%
Beginning of year 2018	3.44%

SUPPLEMENTARY INFORMATION

SEWERAGE AND WATER BOARD OF NEW ORLEANS SCHEDULE OF NET POSITION BY DEPARTMENT ENTERPRISE FUND As of December 31, 2019 and 2018

	Water	System	Sewerag	ge System	Drainage	e System	Total		
	2019	2018	2019	2018	2019	2018	2019	2018	
ASSETS AND DEFERED OUTFLOWS OF RESOURCES									
Current assets:									
Cash and cash equivalents	\$ 20,394,446	\$ 31,321,022	\$ 32,676,640	\$ 30,935,972	\$ 9,191,378	\$ 1,382,352	\$ 62,262,464	\$ 63,639,346	
Accounts receivable:	0.0 STREAM	313 ST355-783	102032 595				10100000000		
Customers, net of allowance	16,642,640	19,919,941	17,413,119	20,463,721			34,055,759	40,383,662	
Taxes	-	10	-	-	5,089,136	6,493,108	5,089,136	6,493,108	
Grants	10,828,954	14,749,165	1,821,271	6,052,105	4,319,414	6,009,076	16,969,639	26,810,346	
Miscellaneous	799,033	258,425	862,606	1,523,141	4,121,159	3,949,877	5,782,798	5,731,443	
Due from (to) other internal departments	(4,818,092)	(3,872,868)	17,550,843	16,500,755	(12,732,751)	(10,632,887)	-	1,995,000	
Inventory of supplies	2,380,984	2,390,127	1,635,632	1,464,006	1,120,383	1,034,569	5,136,999	4,888,702	
Prepaid expenses	284,829	271,455	130,248	116,892	155,520	148,832	570,597	537,179	
Total unrestricted and undesignated	46,512,794	65,037,267	72,090,359	77,056,592	11,264,239	8,384,927	129,867,392	150,478,786	
Total current assets	46,512,794	65,037,267	72,090,359	77,056,592	11,264,239	8,384,927	129,867,392	150,478,786	
Noncurrent assets:									
Restricted cash, cash equivalents, and investments									
Cash and cash equivalents restricted for capital projects	3,091,335	10,648,879	878,008	10,579,291	247,515	17,397	4,216,858	21,245,567	
Health insurance reserve	638,113	780,233	603,855	716,803	645,032	699,598	1,887,000	2,196,634	
Debt service reserve	16,580,927	16,805,167	27,203,259	29,175,408	55,432	62,010	43,839,618	46,042,585	
Total restricted cash, cash equivalents, and investments	20,310,375	28,234,279	28,685,122	40,471,502	947,979	779,005	49,943,476	69,484,786	
Property, plant and equipment	1,022,425,985	970,675,961	1,432,383,010	1,396,493,756	1,960,434,864	1,875,879,548	4,415,243,859	4,243,049,265	
Less: accumulated depreciation	367,236,172	355,653,499	334,562,985	308,357,632	395,149,587	370,176,057	1,096,948,744	1,034,187,188	
Property, plant, and equipment, net	655,189,813	615,022,462	1,097,820,025	1,088,136,124	1,565,285,277	1,505,703,491	3,318,295,115	3,208,862,077	
Other assets									
Funds from/for customer deposits	12,793,827	7,427,424	2		121	12	12,793,827	7,427,424	
Deposits	22,950	22,950	17,965	17,965	10,400	10,400	51,315	51,315	
Total other assets	12,816,777	7,450,374	17,965	17,965	10,400	10,400	12,845,142	7,478,739	
Total noncurrent assets	688,316,965	650,707,115	1,126,523,112	1,128,625,591	1,566,243,656	1,506,492,896	3,381,083,733	3,285,825,602	
Total assets	734,829,759	715,744,382	1,198,613,471	1,205,682,183	1,577,507,895	1,514,877,823	3,510,951,125	3,436,304,388	
Deferred outflows of resources:									
Deferred amounts related to net pension liability	6,235,107	15,065,730	6,235,107	15,065,730	6,235,107	15,065,730	18,705,321	45,197,190	
Deferred amounts related to total OPEB liability	8,272,011	-	8,272,010		8,272,012	-	24,816,033		
Deferred loss on bond refunding	10,886	15,248	2,513,395	2,781,662	75,462	128,985	2,599,743	2,925,895	
Total deferred outflows of resources	14,518,004	15,080,978	17,020,512	17,847,392	14,582,581	15,194,715	46,121,097	48,123,085	
Total assets and deferred outflows of resources	\$ 749,347,763	\$ 730,825,360	\$ 1,215,633,983	\$ 1,223,529,575	\$ 1,592,090,476	\$ 1,530,072,538	\$ 3,557,072,222	\$ 3,484,427,473	

(Continued)

SEWERAGE AND WATER BOARD OF NEW ORLEANS SCHEDULE OF NET POSITION BY DEPARTMENT, CONTINUED ENTERPRISE FUND As of December 31, 2019 and 2018

	Water	System	Sewerag	ge System	Drainas	e System	T	otal
	2019	2018	2019	2018	2019	2018	2019	2018
LIABILITIES, DEFERRED OUTFLOWS OF RESOURCES, AND NET POSITION			3	400 M 10 10 10 10 10 10 10 10 10 10 10 10 10	2	, <u></u> ,	2	ő <u> </u>
Current liabilities (payable from current assets):								-
Accounts payable	\$ 35,116,446	\$ 32,505,962	\$ 14,760,460	\$ 39,814,320	\$ 17,826,586	\$ 28,441,519	\$ 67,703,492	\$ 100,761,801
Due to City of New Orleans	710,554	842,664	5	-	07.1	-	710,554	842,664
Disaster Reimbursement Revolving Loan	-	9,116,772	-	1,687,174	-	417,764	-	11,221,710
Retainers and estimates payable	455,254	4,743,155	1,409,326	3,081,481	1,654,366	2,521,087	3,518,946	10,345,723
Due to other fund	226,430 779,960	14,065 471,562	52,324	26,527 284,858	64,590	33,185 236,603	343,344	73,777 993.023
Accrued salaries Claims payable	1,217,338	471,362	838,757 1,183,080	284,838 1,446,390	566,565 1,224,257	1,426,321	2,185,282 3,624,675	4,354,711
Total OPEB liability, due within one year	2,505,273	2,347,707	2,505,273	2,347,707	2,505,263	2,347,707	7,515,809	7,043,121
Debt Service Assistance Fund loan payable	2,303,273	445,347		4,337,950	2,303,203	2,347,707 283,725	2,650,800	5,067,022
	2,679,202	2,775,563	2,650,800 1,976,305	1,976,305	-	285,725	4,655,507	4,751,868
Advances from federal government Other liabilities	629,386	412,689	209,089	91,075	13,700	6.294	4,655,507 852,175	4,731,888
Total Current liabilities (payable from current assets):	44,319,843	55,157,486	25,585,414	55,093,787	23,855,327	35,714,205	93,760,584	145,965,478
Total Current naorinies (payaole nom current assets).	44,519,845		23,383,414	35,095,181	23,833,321		93,700,384	143,903,478
Current liabilities (payable from restricted assets):								
Accrued interest	883,851	907,571	1,604,260	1,742,994	62,588	74,671	2,550,699	2,725,236
Bonds payable	3,825,000	3,575,000	12,099,000	11,510,000	1,895,000	1,815,000	17,819,000	16,900,000
Retainers and estimates payable	472,171	700,625	277,322	1,371,641	-		749,493	2,072,266
Total current liabilities (payable from restricted assets):	5,181,022	5,183,196	13,980,582	14,624,635	1,957,588	1,889,671	21,119,192	21,697,502
Total current liabilities	49,500,865	60,340,682	39,565,996	69,718,422	25,812,915	37,603,876	114,879,776	167,662,980
T 2 1978 1972								
Long-term liabilities:	2 070 570	4 361 634	4 027 000	4 670 055	24 202 406	25.044.442	42 000 162	44.069.021
Claims payable, net of current portion	3,879,578 3,675,130	4,351,534	4,937,099	4,672,055	34,392,486	35,044,442	43,209,163	44,068,031
Accrued vacation and sick pay	35,013,806	3,884,837	3,462,388	3,702,175 41,291,155	1,930,816	2,106,778 41,291,155	9,068,334	9,693,790 123,873,465
Net pension liability Total OPEB liability, net of current portion	62,570,762	41,291,155 50,523,048	35,013,806 62,570,761	50,523,048	35,013,806 62,570,762	50,523,048	105,041,418 187,712,285	123,873,463
Bonds payable, net of current maturities			212,875,346	226,225,449	4,007,444	5,959,049	422,546,351	442,697,050
Southeast Louisiana Project liability	205,663,561	210,512,552	212,873,340	220,223,449	250,343,870	227,139,545	422,346,331 250,343,870	227,139,545
Debt Service Assistance Fund loan payable,		3 H	n		230,343,870	227,139,343	230,543,870	227,139,343
net of current maturities		3,749,704	40,039,087	36,552,926	140	2,387,257	40,039,087	42,689,887
Customer deposits	12,793,827	12,577,640	40,039,087	30,332,920		2,301,231	12,793,827	12,577,640
Total long-term liabilites	323,596,664	326,890,470	358,898,487	362,966,808	388,259,184	364,451,274	1,070,754,335	1,054,308,552
rotariong-term natimes							1,070,754,555	1,054,500,552
Total liabilities	373,097,529	387,231,152	398,464,483	432,685,230	414,072,099	402,055,150	1,185,634,111	1,221,971,532
Deferred inflows of resources:								
Deferred amounts related to net pension liability	2,379,436	1,868,773	2,379,436	1,868,773	2,379,436	1,868,773	7,138,308	5,606,319
Deferred amounts related to total OPEB liability	2,677,250	4,015,877	2,677,250	4,015,877	2,677,251	4,015,877	8,031,751	12,047,631
Total deferred inflows of resources	5,056,686	5,884,650	5,056,686	5,884,650	5,056,687	5,884,650	15,170,059	17,653,950
Net position:								
Net position: Net investment in capital assets	448,792,587	411,583,789	873,723,687	860,979,966	1,309,286,478	1,270,807,294	2,631,802,752	2,543,371,049
Restricted for debt service	16,580,927	16,805,167	27,203,259	29,175,408	1,309,280,478	62,010	43,839,618	46,042,585
Unrestricted (deficit)	(94,179,966)	(90,679,398)	(88,814,132)	(105,195,679)	(136,380,220)	(148,736,566)	(319,374,318)	(344,611,643)
prover COUNCES AND BEEN PROTOKED AND THE RECEIPTION OF T					2000-00-00-00-00-00-00-00-00-00-00-00-00			
Total net position	371,193,548	337,709,558	812,112,814	784,959,695	1,172,961,690	1,122,132,738	2,356,268,052	2,244,801,991
Total liabilities, deferred inflows of resources,								
and net position	\$ 749,347,763	\$ 730,825,360	\$ 1,215,633,983	\$ 1,223,529,575	\$ 1,592,090,476	\$ 1,530,072,538	\$ 3,557,072,222	\$ 3,484,427,473

SEWERAGE AND WATER BOARD OF NEW ORLEANS SCHEDULE OF REVENUES, EXPENSES AND CHANGES IN NET POSITION BY DEPARTMENT ENTERPRISE FUND For the years ended December 31, 2019 and 2018

	Water	System	Sewera	ge System	Drainage	System	To	tal
	2019	2018	2019	2018	2019	2018	2019	2018
Operating revenues:				-				
Sales of water and delinquent fees	\$ 113,339,213	\$ 90,287,081	s -	s -	\$ -	\$ -	\$ 113,339,213	\$ 90,287,081
Sewerage service charges	-	10 Mail	143,686,137	114,614,157	-	-	143,686,137	114,614,157
Plumbing inspection and license fees	293,773	319,127	288,283	329,205	828	8	582,056	648,332
Other revenues	3,011,749	1,912,736	1,051,920	834,260	1,287,446	2,940,207	5,351,115	5,687,203
Total operating revenues	116,644,735	92,518,944	145,026,340	115,777,622	1,287,446	2,940,207	262,958,521	211,236,773
Operating Expenses:								
Power and pumping	2,605,184	2,530,094	4,944,123	5,425,556	12,463,709	23,918,812	20,013,016	31,874,462
Treatment	9,639,792	9,294,004	10,048,430	13,664,971	-	-	19,688,222	22,958,975
Transmission and distribution	19,644,181	24,912,011	14,368,415	17,666,548	4,163,871	3,951,459	38,176,467	46,530,018
Customer accounts	2,703,346	2,607,756	2,703,342	2,607,781	25,098	27,739	5,431,786	5,243,276
Customer service	2,612,778	2,209,330	2,612,773	2,209,324	78,587	57,760	5,304,138	4,476,414
Administration and general	10,274,204	10,227,572	12,871,251	11,972,725	5,878,102	6,053,021	29,023,557	28,253,318
Payroll related expenses	20,223,874	18,691,737	20,123,106	18,604,235	13,491,336	12,120,609	53,838,316	49,416,581
Maintenance of general plant	14,069,152	15,533,798	8,050,655	8,061,802	5,023,033	5,217,885	27,142,840	28,813,485
Depreciation	12,643,499	12,349,399	26,518,870	26,744,088	24,993,861	24,407,703	64,156,230	63,501,190
Provision for doubtful accounts	15,171,065	7,584,815	18,036,645	13,355,926	98,485	1,476	33,306,195	20,942,217
Provision for claims	724,520	484,441	1,461,520	1,969,339	(116,680)	(9,656,464)	2,069,360	(7,202,684)
			1,401,520		(110,000)	(5,050,404)	2,009,900	(1,202,004)
Total operating expenses	110,311,595	106,424,957	121,739,130	122,282,295	66,099,402	66,100,000	298,150,127	294,807,252
Operating income (loss)	6,333,140	(13,906,013)	23,287,210	(6,504,673)	(64,811,956)	(63,159,793)	(35,191,606)	(83,570,479)
Non-operating revenues (expenses):								
Three-mill tax	-			-	15,300,420	15,504,589	15,300,420	15,504,589
Six-mill tax	<u>2</u>	121	<u>6</u>	20	16,241,889	15,576,221	16,241,889	15,576,221
Nine-mill tax	2	22	2	-	24,345,982	23,570,261	24,345,982	23,570,261
Two-mill tax	3	-	-		35	553	35	553
Other taxes	264,768	264,567	330,217	329,965		-	594,985	594,532
Contributions from other local governments	6,516,802	-	9,300,681	-	20,021,658	-	35,839,141	
Federal noncapital grants	2	78,769	48,716	45	1000 C C C C C C C C C C C C C C C C C C	12	48,716	78,814
Interest income	729,371	422,446	653,894	342,098	226,747	68,584	1,610,012	833,128
Bond issuance costs	1000-000-00-00-00-00-00-00-00-00-00-00-0	-	(127,550)	-	-	-	(127,550)	-
Interest expense	(94,819)	(4,363)	25 . 5 . 0	(190,583)	-	(53,523)	(228,235)	(248,469)
Provision for grants	(5,429,166)	1,154,749	(1,244,310)	2,187,861	(557,352)	(158,969)	(7,230,828)	3,183,641
Total non-operating revenues (expenses)	1,986,956	1,916,168	8,828,232	2,669,386	75,579,379	54,507,716	86,394,567	59,093,270
Income (expenses) before capital contributions	8,320,096	(11,989,845)	32,115,442	(3,835,287)	10,767,423	(8,652,077)	51,202,961	(24,477,209)
Capital contributions	21,414,190	28,488,912	1,174,638	13,900,807	37,674,272	57,898,037	60,263,100	100,287,756
Change in net position	29,734,286	16,499,067	33,290,080	10,065,520	48,441,695	49,245,960	111,466,061	75,810,547
Net position, beginning of year	337,709,558	321,210,491	784,959,695	774,894,175	1,122,132,738	1,072,886,778	2,244,801,991	2,168,991,444
Transfer of Debt Service Assistance Fund loan payable	3,749,704		(6,136,961)		2,387,257			
Net position, end of year	\$ 371,193,548	\$ 337,709,558	\$ 812,112,814	\$ 784,959,695	\$ 1,172,961,690	\$ 1,122,132,738	\$ 2,356,268,052	\$ 2,244,801,991
L								

SEWERAGE AND WATER BOARD OF NEW ORLEANS SCHEDULE OF PROPERTY, PLANT AND EQUIPMENT BY DEPARTMENT As of December 31, 2019 and 2018

	2019												
	Water	Sewer	Drainage	Total									
Real estate rights, non depreciable	\$ 3,065,632	\$ 1,949,159	\$ 8.772,766	\$ 13,787,557									
Power and pumping stations - buildings	74,522,290	53,795,104	268,286.304	396,603,698									
Power and pumping stations - machinery	163,976,123	67,311,682	135,701,030	366,988,835									
Distribution systems	373,211,294	-	-	373,211,294									
Sewerage collection	-	846,599,285	-	846,599,285									
Canals and subsurface drainage	-	-	1,032,784,864	1,032,784,864									
Treatment plants	-	207.077,447	-	207,077,447									
Connections and meters	76,287,974	31,556,254	-	107,844,228									
Power transmission	10,498,353	13,079,398	13,480,136	37,057,887									
General plant and buildings	154,488,081	107.490.272	84,038.801	346,017,154									
Total property, plant and													
equipment in service	856,049,747	1,328,858,601	1,543,063,901	3,727,972,249									
Construction in progress	166,376,238	103,524,409	417,370,963	687,271,610									
Total property, plant and equipment	1,022,425,985	1,432,383,010	1,960,434.864	4,415,243,859									
Accumulated depreciation	367,236,172	334,562,985	395,149,587	1,096,948,744									
Net property, plant and eqiupment	\$ 655,189,813	\$ 1,097,820,025	\$ 1,565,285,277	\$ 3,318,295,115									

		20	18		
	 Water	Sewer		Drainage	Total
Real estate rights, non depreciable	\$ 3,065,632	\$ 1,949,159	\$	8.772,766	\$ 13,787,557
Power and pumping stations - buildings	74,522,290	53,795,104		268,286.304	396,603,698
Power and pumping stations - machinery	163,760,165	67,311,682		135,701,030	366,772,877
Distribution systems	362,282,823	-		-	362,282,823
Sewerage collection	-	742,695,414		-	742,695,414
Canals and subsurface drainage	-	-		916,810,550	916,810,550
Treatment plants	-	207.077,447		-	207,077,447
Connections and meters	75,358,211	31,556,254		-	106,914,465
Power transmission	10,727,059	13,079,397		13,555.173	37,361,629
General plant and buildings	 142,007,198	 107,490,272		84,038,828	 333,536,298
Total property, plant and					
equipment in service	831.723,378	1,224,954,729		1,427,164,651	3,483,842,758
Construction in progress	 138,952,583	 171,539,027		448,714.897	 759,206,507
Total property, plant and equipment	970.675.961	1,396,493,756		1,875,879,548	4,243,049,265
Accumulated depreciation	 355,653,499	 308,357,632		370,176,057	 1,034,187,188
Net property, plant and eqiupment	\$ 615,022,462	\$ 1,088,136,124	\$	1,505,703,491	\$ 3,208,862,077

Schedule 4

SEWERAGE AND WATER BOARD OF NEW ORLEANS SCHEDULE OF BONDS PAYABLE For the year ended December 31, 2019

	Annual Interest Rates	Interest Payment Dates	Issue Date	Final Maturity Date	Outstanding as of 12/31/2018	New Debt in 2019	Payments in 2019	Outstanding as of 12/31/2019
Drainage System Bonds, 2014 (9-Mills)	4.53%	(6/1;12/1)	12/1/2014	6/1/2022	\$ 7,665,000	\$ -	\$ 1,815,000	\$ 5.850,000
					7,665,000		1,815,000	5.850,000
Sewer Revenue Bonds, 2011	0.95%	(5/1; 11/1)	12/1/2011	12/1/1932	6,475,000	-	435,000	6.040,000
Sewer Revenue Bonds, 2014	4.87%	(6/1;12/1)	12/1/2014	6/1/1944	110,440,000	-	11,075,000	99.365.000
Sewer Revenue Bonds, 2015	5.00%	(6/1;12/1)	12/17/2015	12/1/1945	100,000,000	-	-	100,000,000
Sewer Revenue Bonds, 2019	0.95%	(6/1:12/1)	11/20/2019	6/1/2040		127.550		127,550
					216,915,000	127,550	11,510,000	205,532.550
Water Revenue Bonds, 2014	5.00%	(6/1;12/1)	12/1/2014	6/1/1944	98,000,000	-	2,800,000	95,200,000
Water Revenue Bonds, 2015	4.98%	(6/1;12/1)	12/17/2015	2/1/2030	99,300,000		775,000	98,525.000
					197,300,000		3,575,000	193,725,000
TOTAL					\$ 421,880,000	<u>\$ 127,550</u>	\$ 16,9 00 ,000	\$ 405,107,550

SEWERAGE AND WATER BOARD OF NEW ORLEANS SCHEDULE OF CASH RECEIPTS AND DISBURSEMENTS DEBT SERVICE AND DEBT SERVICE RESERVE REQUIRED BY BOND RESOLUTION For the year ended December 31, 2019

		Debt Servi	ce Account		Debt Service Reserve Accounts							
	Water Revenue Bonds	Sewer Revenue Bonds	Drainage Revenue Bonds	Total	Water Revenue Bonds	Sewer Revenue Bonds	Total					
Cash and investments at beginning of year	\$ 9,105,167	\$ 18,467,626	S 62,010	\$ 27,634,803	\$ 7,700,000	S 10,707.782	\$ 18,407,782					
Cash receipts:												
Bond proceeds and accrued interest	-	127,550	-	127,550	-	-	-					
Transfers from operating cash and debt service reserve	13,808,147	25,974.701	2,429,526	42,212,374	-	-	-					
Excess debt service reserve fund applied to BANS 2006 Maturity	2,108	2,293		4,401								
Total receipts	13,810,255	26,104.544	2,429,526	42,344,325								
Cash disbursements: Principal and interest payments,												
cost of issuance and transfers	14,034,495	28,076.693	2,436,104	44.547,292	<u> </u>		<u> </u>					
Total cash disbursements	14,034,495	28,076.693	2,436,104	44.547,292								
Cash and investments at end of year	\$ 8.880,927	\$ 16,495,477	\$ 55,432	\$ 25,431,836	\$ 7,700,000	\$ 10,707.782	\$ 18,407,782					

See accompanying independent auditors' report.

Schedule 5

Schedule 6

SEWERAGE AND WATER BOARD OF NEW ORLEANS CHANGES IN SELF-INSURANCE LIABILITIES BY DEPARTMENT For the year ended December 31, 2019

	Beginning of	Current Year Claims and		End of
	Year	Estimate Change	Payments	Year
WATER				
Short-term:				
Workers' compensation	\$ 709.90.		\$ 1,320.711	\$ 579,225
Health insurance	772,09		8,348.046	638.113
Total short-term	1,482,00	9,404,095	9,668.757	1,217,338
Long-term:				
Workers' compensation	252,47		-	258,922
General liability	4,099,05		-	3,620,656
Total long-term	4,351,53	4 (471.956)		3,879,578
Total	\$ 5.833,534	<u>\$ 8,932,139</u>	\$ 9,668.757	S 5,096,916
<u>SEWERAGE</u>				
Short-term:	é	¢ 1.100.03 3	£ 1.300.510	¢ 570.005
Workers' compensation	\$ 709,90.		\$ 1,320.710	\$ 579,225
Health insurance	736,48	· · · · · · · · · · · · · · · · · · ·	8,260.649	603,855
Total short-term	1,446,39	9,318.049	9,581,359	1,183,080
Long-term:				
Workers' compensation	252,47		-	258.922
General liability	4,419,57		-	4,678,177
Total long-term	4,672,05	265,044		4,937,099
Total	\$ 6,118,44	<u>\$ 9,583,093</u>	\$ 9,581.359	<u> </u>
DRAINAGE				
Short-term:				
Workers' compensation	\$ 709,90.	\$ 526.456	\$ 657,134	\$ 579,225
Health insurance	716,41	4,362,674	4,434.060	645,032
Total short-term	1.426,32	4.889,130	5,091,194	1,224,257
Long-term:				
Workers' compensation	252,47	6,443	-	258,922
General liability	34,791,96	(658,399)	-	34,133,564
Total long-term	35,044,44	(651,956)	-	34,392,486
Total	\$ 36.470.76	<u>\$ 4.237.174</u>	\$ 5,091.194	\$ 35,616.743
TOTAL				
Short-term:				
Workers' compensation	\$ 2,129,70	\$ 2.906.521	\$ 3,298,555	\$ 1,737,675
Health insurance	2,225,00	20,704,753	21.042,755	1,887,000
Total short-term	4,354,71	23,611,274	24,341.310	3,624,675
Long-term:				
Workers' compensation	757,43	19,329	-	776,766
General liability	43,310,59		-	42,432,397
Total long-term	44,068,03		-	43,209,163
Total	\$ 48.422,74	2 \$ 22.752,406	\$ 24,341,310	<u>s 46,833,838</u>

SEWERAGE AND WATER BOARD OF NEW ORLEANS SCHEDULE OF COMPENSATION, BENEFITS, AND OTHER PAYMENTS TO THE EXECUTIVE DIRECTOR For the year ended December 31, 2019

Ghassan Korban, Executive Director

Purpose		Amount				
Salary Danafita hospitalization		\$	273,544			
Benefits-hospitalization Benefits-life insurance			3,127			
Benefits-retirement Reimbursements			16,072 1,003			
Conference travel Relocation/Housing			2,581 3,923			
	Total	\$	300,250			

STATISTICAL SECTION



Of our 120 pumps, 51 run on an older frequency of electricity, 25 Hertz (Hz). We produce that power ourselves using steam turbine generators, frequency changers and Electro-Motive Diesel (EMD) generators. In all, we need about 52 megawatts (MW) of power to fully run the drainage system. We can produce more than 80 MW, giving us vital redundancy in our power supply.

SEWERAGE AND WATER BOARD OF NEW ORLEANS SUMMARY OF STATISTICAL INFORMATION December 31, 2019 (Unaudited)

This part of the Board's Comprehensive Annual Financial report presents detailed information as a context for understanding what the information in the financial statement, note disclosure, and required supplementary information says about the Board's overall financial health.

Financial Trends:

These schedules contain trend information to help the reader understand how the Board's financial performance and well-being have changed over time.

Revenue Capacity:

These schedules contain information to help the reader assess the Board's most significant local revenue source, the property tax.

Debt Capacity:

These schedules present information to help the reader assess the affordability of the Board's current levels of outstanding debt and the Board's ability to issue additional debt in the future.

Demographic and Economic Information:

These schedules offer demographic and economic indicators to help the reader understand the environment within which the Board's financial activities take place.

Operating Information:

These schedules contain service and infrastructure data to help the reader understand how the information in the Boards financial report relates to the services the Board provides and the activities it performs.

SEWERAGE AND WATER BOARD OF NEW ORLEANS NET POSITION BY COMPONENT Last Ten Fiscal Years (Unaudited - accrual basis of accounting)

		Year												
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010				
Business-type activities														
Net investment in capital assets	\$ 2,631,802,752	\$ 2,543,371,049	\$ 2,405,073,361	\$ 2,251,197,095	\$ 2,009,322,572	\$ 2,013,060,377	\$ 1,919,436,757	\$ 1,762,389,823	\$ 1,602,767 <u>,</u> 538	\$ 1,481,320,632				
Restricted for debt service	43,839,618	46,042,585	46,606,340	47,217,981	46,199,659	30,846,959	33,405,265	35,186,883	33,137,542	32.774,880				
Unrestricted	(319,374,318)	(344,611,643)	(282,688,257)	(69,993,128)	27,166,084	(114,602,287)	(175,395,265)	(135,165,032)	(97,925,662)	(82,369,095)				
Total business-type activities net position	\$ 2,356,268,052	\$ 2,244,801,991	\$ 2,168,991,444	\$ 2,228,421,948	\$ 2,082,688,315	\$ 1,929,305,049	\$ 1,777,446,757	\$ 1,662,411,674	\$ 1,537,979,418	\$ 1,431,726,417				

Source: Audited Comprehensive Annual Financial Reports

SEWERAGE AND WATER BOARD OF NEW ORLEANS CHANGES IN NET POSITION BY COMPONENT Last Ten Fiscal Years (Unaudited - accrual basis of accounting)

	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Operating revenues:										
Sales of water and delinquent fees	S 113.339,213	S 90,287,081	S 90,464,810	S 83.158,940	\$ 78,007,937	\$ 70,818,255	\$ 64.398,609	\$ 60,256,304	\$ 59,890,312	\$ 55,079,772
Sewerage service charges	143.686,137	114.614,157	111.063,719	104.795,184	95.636,966	86.553,262	78.535,785	71.407,835	70.358,076	69.534,779
Plumbing inspection and license fees	582,056	648,332	588,330	638,502	610,768	678,352	643,036	687,806	758,072	746,426
Other revenue	5,351,115	5,687,203	3,451,274	4,078,380	8,290,157	5,024,480	5,119,368	4,626,276	8,581,123	4,702,753
Teller	262,958,521	211.236,773	205.568,133	192.671,006	182,545,828	163.074,349	148,696,798	136,978,221	139.587,583	130,063,730
Total operating revenues	202,938,321	211.236,773	203.368,133	192.671,006	182,343,828	103,074,349	148,696,798	130,978,221	139.387,383	130,003,730
Operating Expenses:										
Power and pumping	20.013,016	31.874,462	36.549,229	13,499,216	13.139,255	13.227,389	12.572,620	11.951,746	11.787,614	12.606,851
Treatment	19.688,222	22,958,975	25.651,907	20,300,344	18,740,637	19.527,000	18.143,049	18,906,540	18.081,523	19.029,752
Transmission and distribution	38,176,467	46,530,018	36.409,559	37,174,706	35,878,137	27,186,606	23,323,900	26,019,713	27,216,035	15,915,361
Customer accounts	5,431,786	5,243,276	4.460,155	4.151,027	3,807,405	3,514,360	3.425,934	3,334,652	3,369,643	3,314,887
Customer service	5.304,138	4.476,414	4,217,543	4,271,555	3.973,344	3.717,925	3.464,197	3.332,300	3.320,100	3.386,338
Administration and general	29.023,557	28.253,318	24.343,704	18,506,107	16.848,253	16.976,430	17.333,945	15.879,736	16.054,154	16.060,032
Payroll related	53,838,316	49,416,581	38.126,322	43.990,879	36,349,834	32,488,264	34.928,822	33,980,859	34.770,439	33,616,025
Maintenance of general plant	27,142,840	28,813,485	26,100,182	23,979,309	27,148,505	28,178,593	27,647,127	24.480,560	25,185,237	30,723,060
Depreciation	64,156,230	63,501,190	59,450,076	52,060,674	51,661,651	50,157,869	43,648,267	39.011,955	34,772,279	35.216,611
Provision for doubtful accounts	33,306,195	20,942,217	14,326,711	3,413,404	2,466,117	1.940,782	2.052,096	1,676,511	\$6 7,460	4,855,325
Provision for claims	2.069,360	(7.202.684)	45.272,821	6.450,805	2.435,209	2.444,878	1.801,114	130,704	(4,680.454)	3.186,714
Total operating expenses	298.150,127	294.807,252	314.908,209	227,798,026	212.448,347	199.360,096	188.341,071	178,705,276	170.744,030	177.910,956
	(35.191,606)	(83,570,479)	(109,340,076)	(35.127,020)	(29,902.519)	(36,285,747)	(39.644,273)	(41,727,055)	(31,156,447)	(47.847,226)
Operating loss	(53.191,600)	(83,570,479)	(109,340,076)	(33.127,020)	(29,902.519)	(30,283,747)	(39,044,2/3)	(41,727,035)	(31,130,447)	(47,847,220)
Non-operating revenues (expenses):										
Three-mill tax	15.300,420	15.504,589	15.309,309	16.043,825	14.139,193	13.481,526	13.175,711	12,497,723	11.129,376	10.378,060
Six-mill tax	16,241,889	15,576,221	16,229,098	16,215,799	14.290,667	13,626,539	13.317,505	12.630,977	11.242,927	10,498,580
Nine-mill tax	24,345,982	23,570,261	23,881,671	23,762,398	21.421,102	20,425,388	19,962,114	18,933,290	16,855,081	15,672,791
Two-mili tax	35	553	2,735	7,526	4,960	1,193	-	-	4,870	1,045
Other taxes	594,985	5 9 4,532	593,424	564,050	581,395	572,083	494,106	278,394	316,079	333,795
Contributions from other local governments (Note 17)	35.839,141	-	-	-	-	-	-	-	-	-
Operating and maintenance grants	48,716	78,814	845	24,738	2,405	1,502	2,054,492	7.624,526	11,479.664	9,367,940
Interest income	1.610,012	3.788,898	4.273,821	4.667,470	2.511,032	\$11,263	353,630	401,387	426,870	274,323
Bond issuance costs	(127,550)	-	-	-	(1,510,657)	(2.649.339)	-	-	-	-
Interest expense	(228,235)	(3,204,239)	(3,537,336)	(32,471)	(53,518)	-	(371,349)	(737,893)	(736,878)	(1,687,603)
Recovery (provision) for grants	(7,230,828)	3,183,641	(8,906,949)	-	-	-	-	-	-	-
Forgiveness of Community Disaster Loan							30.061,368			41,438,410
Total non-operating revenues (expenses)	86,394,567	59.093,270	47,846,618	61.253,335	51,386,579	46,270.155	79.047,577	51,628,404	50,717,989	86,277,341
Income (loss) before capital contributions	51,202,961	(24,477,209)	(61,493,458)	26,126,315	21,484,060	9.984,408	39,403,304	9,901,349	19.561,542	38.430,115
Capital contributions	60.263,100	100.287,756	96.336.075	119.607.318	131.899,206	141.873.884	114.317,636	114.530,907	115.575,107	48.959_148
Change in net position	111.466,061	75.810,547	34.842,617	145.733,633	153.383,266	151.858,292	153.720,940	124.432,256	135.136,649	87.389,263
Net positioa:										
Beginning of year	2,244,801,991	2,168,991,444	2,228.421,948	2,082,688,315	1,929,305,049	1,777.446,757	1,662,411,674	1,537.979,418	1,402,842,769	1,315,453,506
Change in accounting principle	-	-	(94.273,121)	-	-	-	(38,685,857)	-	-	-
Beginning of year, as restated	2,244.801,991	2,168.991,444	2,134.148,827	2,082.688,315	1,929.305,049	1,777.446,757	1,623.725,817	1,537.979,418	1,402.842,769	1,315.453,506
End of year	\$ 2,356.268,052	<u>\$ 2,244.801,991</u>	<u>\$ 2,168.991,444</u>	<u>\$ 2,228.421,948</u>	<u>\$ 2,082.688,315</u>	s 1,929.305,049	s 1,777.446,757	s 1,662.411,674	<u>\$ 1,537.979,418</u>	<u>\$ 1,402.842,769</u>

Source: Audited Comprehensive Annual Financial Reports - Information available for ten years

SEWERAGE AND WATER BOARD OF NEW ORLEANS REVENUE AND EXPENSES BY SOURCE ENTERPRISE FUND Last Ten Years (Unaudited)

Revenues	2	010		2011		2012		2013		2014		2015		2016		2017		2018		2019
Charges for service		25,360,977	\$	131,006,460	\$	132,351,945	\$	143,577,430	\$	158,049,869	\$	174,255,671	\$	188,592,626	\$	202,116,859	\$	205,549,570	\$	257,607,406
Dedicated taxes	5	36,549,431		39,227,384		44,061,990		46,455,330		47,533,453		49,850,962		56,022,022		55,420,078		54,651,071		55,888,291
Two-mill tax		1,045		4,870		-		-		1,193		4,960		7,526		2,735		553		35
Interest on investments		274,323		426,870		401,387		353,630		811,263		2,511,046		4,667,470		4,273,821		3,788,898		1,610,012
Contributions from local governments		-		-		-		-		-		-		-		-		-		35,839,141
Other taxes and revenue	5	55,842,898		20,376,866		12,529,196		37,729,334		5,598,065		7,363,300		4,667,168		4,045,543		6,360,549		5,994,814
	\$ 21	8,028,674	\$	191,042,450	\$	189,344,518	ŝ	228,115,724	ŝ	211,993,843	ŝ	233,985,939	ŝ	253,956,812	ŝ	265,859,036	ŝ	270,350,641	ŝ	356,939,699
Expenses	2	010		2011		2012		2013		2014		2015		2016		2017		2018		2019
Personnel services	\$7	72,725,464	s	73,834,142	s	74,358,288	s	75,998.997	s	76,009.536	s	81,094,850	s	88,422.754	s	85,643.784	s	107,582,424	s	112,931,852
Services and utilities		17,125,394		42,417,785		40,621,806		44,686,711		46,739,864		46,321,849		48,095.715		56,047,431		51,770,073		49,172,289
Materials and supplies		2,535,610		23,532,818		22,906,012		20,153,886		22,067,167		28,468,671		29,354,674		54,170,680		58,214,032		36,514,199
Depreciation and	-							20,100,000				,,		,,						
amortization	3	35,381,030		34,850,026		39,011,955		43,648,267		50,157,869		51,661,651		52,060,674		59,450,076		63,501,190		64,156,230
Provision for doubtful		5,501,050		54,650,020		37,011,225		+3,0+0,207		50,157,005		51,001,051		52,000,074		59,450,070		05,501,190		04,100,200
accounts		4,855,325		867,460		1,676,511		2,052,096		1,940,782		2,466,131		3,413,404		14,326,711		20,942,217		33,306,195
Provision for claims		3,186,714		(4,680,454)		130,704		1,801,114		2,444,878		2,435,209		6,450,805		45,272,821		(7,202,684)		2,069,360
Provision for grants						· -		· · · ·		_		_		-		8,906,949		(3,183,641)		7,230,828
Bond issuance costs		-		-		_		-		2,649,339		1,510,657		-		-		-		127,550
Interest		1,687,603		736,878		737,893		371,349		-		53,518		32,471		3,537,336		3,204,239		228,235
	\$ 17	77,497,140	\$	171,558,655	\$	179,443,169	\$	188,712,420	\$	202,009,435	\$	214,012,536	\$	227,830,497	\$	327,355,788	\$	294,827,850	\$	305,736,738

SEWERAGE AND WATER BOARD OF NEW ORLEANS ASSESSED AND ESTIMATED ACTUAL VALUE OF TAXABLE PROPERTY Last Ten Fiscal Years (Unaudited - amounts in thousands)

Fiscal Year	F	Net Asses	e nal Property	Total Net Assessed Value	 al Estimated ual Value (1)	Ratio of Total Net Assessed to Total Estimated Actual Value
	·			 		
2010	\$	2,489,813	\$ 387,334	\$ 2,877,147	\$ 21,974,841	13.1%
2011		2,584,334	385,700	2,970,034	21,974,841	13.5%
2012		2,760,973	390,952	3,151,925	21,974,841	14.3%
2013		2,920,015	413,120	3,333,135	21,974,841	15.2%
2014		3,065,164	405,514	3,470,678	21,974,841	15.8%
2015		3,202,063	431,355	3,633,418	21,974,841	16.5%
2016		3,376,001	456,454	3,832,455	30,873,272	12.4%
2017		3,481,746	471,986	3,953,732	35,475,355	11.1%
2018		3,592,392	497,655	3,789,022	35,475,355	10.7%
2019		3,652,926	527,777	3,868,662	35,475,355	10.9%

(1) Last available information is 2017

Source: City of New Orleans

SEWERAGE AND WATER BOARD OF NEW ORLEANS PROPERTY TAX RATES - DIRECT AND OVERLAPPING GOVERNMENTS Last Ten Fiscal Years (Unaudited)

Number of Mills (Per \$1,000 of assessed value)

		Orleans		Sewerage & Water Board	Orleans	Audubon	
Fiscal	City of	Levee District	Algiers	of	Parish	Park &	
Year	<u>New Orleans</u>	<u>Eastbank</u>	Levee District	<u>New Orleans</u>	<u>School Board</u>	<u>Zoo</u>	<u>Total</u>
2010	64.31	11.67	12.76	16.43**	44.12	3.31	140.93
2011	72.05	11.67	12.76	16.43**	44.12	3.31	148.67
2012	72.05	11.67	12.76	16.43**	43.6	3.31	148.15
2013	72.05	11.67	12.36	16.43**	44.81	3.31	136.60
2014	72.05	11.67	12.76	16.43**	45.31	3.31	147.58
2015	71.95	11.67	12.56	16.43**	45.31	3.31	149.56
2016	74.45	12.28	6.21	16.43**	45.31	3.31	145.71
2017	60.98	12.28	12.56	16.43**	45.31	3.31	134.44
2018	60.98	12.28	12.56	16.43**	45.31	3.31	134.44
2019	60.98	12.28	12.56	16.43**	45.31	3.31	134.44

Source: City of New Orleans

**3 mills adopted in 1967 expires in 2046

**6 mills adopted in 1978 expires in 2027

**9 mills adopted in 1982 expires in 2032

SEWERAGE AND WATER BOARD OF NEW ORLEANS TEN LARGEST TAXPAYERS December 31, 2019 and Ten Years Ago (Amount in thousands) (Unaudited)

ctric & Gas Utilities	\$	114,443	3.02%
ancial Institution		47,329	1.25%
spitality		32,944	0.87%
ephone Utilities		31,241	0.82%
ancial Institution		30,697	0.81%
pitality & Gaming		26,582	0.70%
ancial Institution		22,067	0.58%
fee Roasting Plant		19,740	0.52%
l Estate		18,105	0.48%
pitality		16,898	0.45%
	\$	360,046	9.50%
	ancial Institution spitality ephone Utilities ancial Institution spitality & Gaming ancial Institution fee Roasting Plant I Estate spitality	spitality ephone Utilities ancial Institution spitality & Gaming ancial Institution fee Roasting Plant Il Estate	spitality32,944ephone Utilities31,241ancial Institution30,697spitality & Gaming26,582ancial Institution22,067fee Roasting Plant19,740Il Estate18,105spitality16,898

Name of Taxpayer	Type of Business	 2010 issessed Value	Percentage of Total Assessed Value
Entergy Service	Electric & Gas Utilities	\$ 79,345	2.97%
Bellsouth Telecommunications	Telephone Utilities	54,414	2.04%
Harrah's Entertainment	Casino	41,733	1.56%
Capital One Bank	Financial Institution	26,719	1.00%
JP Morgan Chase Bank	Financial Institution	24,026	0.90%
Whitney National Bank	Financial Institution	22,663	0.85%
International Rivercenter	Shopping Mall; Hotel	17,466	0.65%
Marriott Hotel Properties	Hotel	14,191	0.53%
C S & M Associates	Commercial Real Estate	13,823	0.52%
Poydras Properties	Real Estate	13,313	0.50%
		\$ 307,693	11.52%

Source: City of New Orleans Department of Finance Bureau of the Treasury

(1) Last available information is 2018

SEWERAGE AND WATER BOARD OF NEW ORLEANS PROPERTY TAX LEVIES AND COLLECTIONS BY THE CITY OF NEW ORLEANS Last Ten Fiscal Years (Unaudited - Amounts in Thousands)

		Collected	within	Collections in Subsequent	Total Collectio	ous to Date (1)
Fiscal	Total	Fiscal year of		Years (1)		Percentage
Year	_Levied (1)	Amount	Percent	Amount	Amount	of Levy
Real Estate T	axes:					
2010	309,800	291,078	93.96%	16,641	307,719	99.33%
2011	339,370	320,437	94.42%	16,394	336,831	99.25%
2012	362,262	342,248	94.48%	17,109	359,357	99.20%
2013	382,902	363,026	94.81%	16,730	379,756	99.18°o
2014	393.304	375,815	95.55%	13.527	389.342	98.99° o
2015	422.306	397,843	94.21° o	20,637	418.480	99.09° o
2016	457.800	442,153	96.58%	10,381	452.534	98.85° o
2017	480.924	458,767	95.39%	15,233	474.000	98.56°°
2018	497.718	481,642	96.77%	-	481,642	96.77%
2019	497.718	481,642	96.77%	-	481,642	96.77° o
Personal Prop	erty Taxes:					
2010	74,530	68,508	91.92%	6,022	74,530	100.00%
2011	78.996	74,204	93.93%	4,637	78,841	99.80°,6
2012	81,685	78,275	95.83%	3.251	81,526	99.81%o
2013	87.058	84,410	96.96%	981	85.391	98.09° o
2014	84.620	81,926	96.82° o	797	82.723	97.76° o
2015	86,961	81,773	94.03° o	2,961	84.734	97.44°o
2016	92.428	88,797	96.07° o	966	89,763	97.12°.º
2017	96.441	92,123	95.52%	242	92,365	95.77%
2018	101.280	94,862	93.66%	-	94,862	93.66%
2019	101,280	94,862	93.66%	-	94,862	93.66%

Source: City of New Orleans

(1) Last available information is 2018

SEWERAGE AND WATER BOARD OF NEW ORLEANS WATER AND SEWER RATES Last Ten Fiscal Years (Unaudited)

				V	Vater					 Se	wer	
				R	ate per 1,0)00 Ga	llons					
Year	onthly se Rate		t 3,000 allons		17,000 allons	98	Next 0,000 allons	(Gallons Dver 00,000	onthly se Rate	1	te per ,000 allons
2010	\$ 3.90	S	2.59	\$	4.42	\$	3.48	S	2.92	\$ 11.60	\$	4.04
2011	\$ 4.05	S	2.69	\$	4.60	\$	3.62	S	3.04	\$ 11.60	\$	4.04
2012	\$ 4.05	S	2.69	\$	4.60	\$	3.62	S	3.04	\$ 11.60	\$	4.04
2013	\$ 4.91	\$	2.96	\$	5.06	\$	3.98	\$	3.34	\$ 14.04	\$	4.44
2014	\$ 4.91	\$	3.26	\$	5.57	\$	4.38	\$	3.67	\$ 14.04	\$	4.88
2015	\$ 5.40	S	3.59	\$	6.13	\$	4.82	S	4.04	\$ 15.44	\$	5.37
2016	\$ 5.94	S	3.95	\$	6.74	\$	5.30	S	4.44	\$ 16.98	\$	5.91
2017	\$ 6.53	S	4.35	\$	7.41	\$	5.83	\$	4.88	\$ 18.68	\$	6.50
2018	\$ 7.18	S	4.79	\$	8.15	\$	6.41	S	5.37	\$ 20.55	\$	5.13
2019	\$ 7.90	S	5.27	\$	8.97	\$	7.05	S	5.91	\$ 22.61	\$	5.64

Note: Rates are based on 5/8" meter, which is the standard household meter size.

SEWERAGE AND WATER BOARD OF NEW ORLEANS RATIOS OF OUTSTANDING DEBT BY TYPE Last Ten Fiscal Years

	Personal		_			Special Community	Debt Service Assistance		Percentage	
Fiscal	Income (1)	Population	Revenue	Special Tax	LDHH	Disaster Loan	Fund	Total	of Personal	Debt per
Year	(in thousands)	(2)	Bonds	Bonds	Bonds	Payable	Loan	Debt	Income	Capita
2010	\$ 15,260,613	347,907	S 208,422,155	S 20,290,000	S 632,842	\$ 25,166,747	\$ 77.460,393	S 331,972,137	4.60%	\$ 954
2011	15,260,613	360,740	194,330,103	18,990,000	1,503,834	25.166.747	77,465.247	317,455,931	4.81%	880
2012	15,346,678	369,250	186,832,906	17,630,000	1,998.636	25,166,747	73,776,967	305,405,256	5.03%	827
2013	15,888,893	378,715	172,192,129	16,205,000	3.865	-	69.917.529	258,318,523	6.15%	682
2014	16,437,492	378,715	292,068,863	14,870,042	3,865	-	41.317,444	348,260,214	4.72%	920
2015	18,032,254	389,617	504,808,633	12,750,000	-	-	61,653,139	579,211,772	3.11%	1,487
2016	14,094,612	391,495	488,835,158	11,100,000	-	-	57,230,725	557,165,883	2.53%	1,423
2017	14,094,612	393,292	488,835,158	9,410,000	-	-	52.604,006	550,849,164	2.56%	1,401
2018	14,094,612	393,292	451,932,050	7,665,000	-	-	47,756,909	507,353,959	2.78%	1,290
2019	14,094,612	(3) 390,144	399,257,550	5,850,000	-	-	42.695.640	447,803,190	3.15%	1,148

(1) Source: Bureau of Economic Analysis.

(2) Source: www.census.gov/popest.

(3) Most recent available is as of 2016

SEWERAGE AND WATER BOARD OF NEW ORLEANS COMPUTATION OF DIRECT AND OVERLAPPING DEBT December 31, 2019 (Unaudited)

	Net Outstanding Debt	Percentage Overlapping	Overlapping Debt
Direct debt:			
Sewerage and Water Board, net of debt service funds (tax bonds only)	\$ 6,167,550	100%	\$ 6,167,550
Overlapping debt:			
City of New Orleans	502,467,981	100%	502,467,981
Audubon Park Commission	7,100,000	100%	7,100,000
Orleans Parish School Board (1)	97,995,000	100%	97,995,000
Total overlapping debt	607,562,981	100%	607,562,981
Total direct and overlapping debt	\$ 613,730,531	100%	\$ 613,730,531

(1) The fiscal year of the Orleans Parish School Board is June 30th; The overlapping debt is based on June 30.

SEWERAGE AND WATER BOARD OF NEW ORLEANS REVENUE BONDS DEBT SERVICE COVERAGE WATER REVENUE BONDS Last Six Fiscal Years (Unaudited)

Fiscal Year		Operating Revenue	 (2) Direct Operating Expenses	A	Jet Revenue Available for Jebt Services	 D Principal	ebt Serv	rices Requirement	ts	Total	Coverage
2014	\$	74,221,260	\$ 66,607,501	\$	7,613.759	\$ -	\$	2.829,414	\$	2,829.414	2.69
2015		82,957,551	71,168,572		11,788,979	-		3,500,000		3,500,000	3.37
2016		88,366,278	75,002,591		13,363,687	325,000		7,646,525		7,971,525	1.68
2017		94,657,534	77,838,026		16,819,508	2,540,000		10,100,550		12,640,550	1.33
2018		103,514,199	80,839,797		22,674.402	3,360,000		9,973,550		13,333,550	1.70
2019	(1)	124,155,676	82,505,413		41,650,263	3,575,000		9,819,550		13,394,550	3.11

(1) See Note 19 to the financial statements

(2) Total operating expenses less depreciation, change in total OPEB liability, net pension liability and related amortization of deferred inflows and outflows of resources.

SEWERAGE AND WATER BOARD OF NEW ORLEANS REVENUE BONDS DEBT SERVICE COVERAGE SEWER REVENUE BONDS Last Six Fiscal Years (Unaudited)

Fiscal Year		Operating Revenue	 (2) Direct Operating Expenses	А	Jet Revenue wailable for webt Services	 E Principal	ebt Serv	vices Requiremen Interest	its	Total	Cov	/erage
2014	\$	88,756,831	\$ 45,943.518	\$	42,813,313	\$ 13,695,000	\$	5,445,799	\$	19,140,799	2	
2015		98,166,699	50,196.374		47.970.325	11,644,000		4,750,603		16.394.603	2	93
2016		108,241,219	57,142,277		51,098,942	12,852,000		10,463,838		23,315,838	2	.19
2017		114,318,485	64,686,410		49,632.075	13.392,000		11,413,498		24,805,498	2	00
2018		118,029,837	81,270.955		36,758,882	12,356,000		10,783,057		23,139,057	1	.59
2019	(1)	155,359,848	78,709.343		76,650,505	11,510,000		10,203.963		21.713,963	3	.53

(1) See Note 19 to the financial statements

(2) Total operating expenses less depreciation, change in total OPEB liability, net pension liability and related amortization of deferred inflows and outflows of resources.

SEWERAGE AND WATER BOARD OF NEW ORLEANS WATER SYSTEM UNRESTRICTED CASH AND CASH EQUIVALENTS DAYS OF OPERATING AND MAINTENANCE EXPENSE AT YEAR END Last Six Fiscal Years (unaudited)

Fiscal Year	Cash Balance	One Day O&M	Measurement
2014	\$ 32,497,474	\$ 188,711	172
2015	39,253,304	194,982	201
2016	38,383,800	205,487	187
2017	29,823,726	213,255	140
2018	38,771,396	221,479	175
2019	33,211,223	226,042	147

SEWERAGE AND WATER BOARD OF NEW ORLEANS SEWER SYSTEM UNRESTRICTED CASH AND CASH EQUIVALENTS DAYS OF OPERATING AND MAINTENANCE EXPENSE AT YEAR END Last Six Fiscal Years (unaudited)

Fiscal Year	Cash Balance	One Day O&M	Measurement
2014	\$ 26,736,696	\$ 130,990	204
2015	40,267,802	137,524	293
2016	62,584,566	156,554	400
2017	52,923,266	177,223	299
2018	30,935,972	222,660	139
2019	32,694,605	215,642	152

SEWERAGE AND WATER BOARD OF NEW ORLEANS DEMOGRAPHIC STATISTICS Last Ten Fiscal Years (Unaudited)

Fiscal			Personal Income(2)	Pe	er Capita	Unemployment
Year	Population(1)	_(i	n thousands)	Perso	nal Income	Rate (3)
2010	354,850	\$	15,260,613	\$	35,507	8.50%
2011	343,829	\$	13,264,235	\$	38,578	7.30%
2012	369,250	\$	15,346,678	\$	41,562	5.50%
2013	378,715	\$	15,888,893	\$	41,955	4.20%
2014	378.715	S	16,437.492	S	43,403	7.50%
2015	389.617	\$	18,032.254	\$	46,282	6.00%
2016	391.495	\$	14.094.612	\$	36,792	5.40%
2017	393.292	\$	14.094.612	\$	35,838	5.41%
2018	393.292	\$	14,094.612	\$	35,838	3.09° o
2019	390.144	S	14.094.612 (4)	\$	36,127	4.50° o

(1) www.census.gov/popest.

(2) Estimates- Bureau of Economic Analysis.

(3) U.S. Bureau of Labor Statistics. Unemployment rate for the New Orleans-Metairie-Kenner, LA metropolitan area.

(4) Most recent available is 2016.

SEWERAGE AND WATER BOARD OF NEW ORLEANS NEW ORLEANS AREA PRINCIPAL EMPLOYERS Last Ten Fiscal Years (Unaudited)

Rank / Number of Employees

		кац	K / indiffuer of Elf	ipioyees					
2010	2011	2012	2013	2014	2015	2016	2017	2018	(1) 2019
	8 / 2,500			10 / 3,100	10/3,100	10 / 3,100	10/3,100	10/3,100	
7 / 2,000	9 / 2,200	9 / 2,000							
9 / 1,500									
6/2,150		8 / 2,150							
									7 / 5,000
8 / 2,000		10/2,000							
		5/3,150							
									3 / 13,504
5/2,200	7 / 2,700	7 / 2,200	7 / 2,700						
10 / 1,400				4 / 5,000	4 / 5,000	4 / 5,000	4 / 5,000	4 / 5,000	2/16,380
				3 / 6,000	3 / 6,000	3 / 6,000	3 / 6,000	3 / 6,000	
4 / 2,832		7 / 2,800							
				7 / 4,500	7 / 4,500	7 / 4,500	7 / 4,500	7 / 4.500	4 / 6,100
	2 / 7,000	3 / 5,000	2 / 7,000	2 / 7,000	2 / 7,000	2 / 7,000	2 / 7,000	2 / 7,000	8/4,570
				5 / 5,000	5 / 5,000	5 / 5,000	5 / 5,000	5 / 5,000	
	10 / 2,000		9 / 2,000						
			7 / 2,700						
2 / 5,400	3 / 6,000	2 / 5,400	3 / 6,000						
1/9,107	1 / 9,800	1/9,100	1/9,100	1 / 9,800	1 / 9,800	1 / 9,800	1/9,800	1/9,800	1/19,000
									9 / 4,250
									6/5,510
3 / 4,410	4 / 5,000	4 / 4,400	4 / 5,000	6/4,700	6 / 4,700	6/4,700	6/4,700	6 / 4,700	5 / 6,030
	6/3,114		6/3,114	9/3,100	9/3,100	9/3,100	9/3,100	9/3,100	
	5 / 4,000	6 / 2,900	5/4,000	8 / 4,000	8 / 4,000	8 / 4,000	8 / 4,000	8 / 4,000	
									10/3,500
			10 / 1,904						
	7 / 2,000 9 / 1,500 6 / 2,150 8 / 2,000 5 / 2,200 10 / 1,400 4 / 2,832 2 / 5,400 1 / 9,107	8 / 2,500 9 / 1,500 6 / 2,150 8 / 2,200 9 / 1,500 6 / 2,150 8 / 2,000 5 / 2,200 10 / 1,400 4 / 2,832 2 / 7,000 10 / 2,000 2 / 5,400 1 / 9,107 1 / 9,800 3 / 4,410 4 / 5,000 6 / 3,114	$\begin{array}{c ccccc} 2010 & 2011 & 2012 \\ \hline 2010 & 8/2,500 \\ 9/2,200 & 9/2,000 \\ 9/1,500 & 9/2,200 & 9/2,000 \\ 9/2,200 & 9/2,000 \\ 8/2,150 & 8/2,150 \\ \hline 8/2,000 & 10/2,000 \\ 5/3,150 \\ \hline 5/2,200 & 7/2,700 & 7/2,200 \\ 10/1,400 & 7/2,700 & 7/2,200 \\ \hline 10/1,400 & 7/2,700 & 7/2,200 \\ \hline 2/7,000 & 3/5,000 \\ \hline 10/2,000 & & & \\ 2/5,400 & 3/6,000 & 2/5,400 \\ \hline 1/9,107 & 1/9,800 & 1/9,100 \\ \hline 3/4,410 & 4/5,000 & 4/4,400 \\ \hline \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

(1) Source: Zippia, the Career Expert. (www.zippia.com). Employers with principal offices located in the New Orleans metropolitan area.

SEWERAGE AND WATER BOARD OF NEW ORLEANS CAPITAL EXPENDITURES BY DEPARTMENT ENTERPRISE FUND Last Ten Fiscal Years (Unaudited)

Year	Water	Sewer	Drainage	Total
2010	32,248,119	58,682,400	51,465,065	142,395,584
2011	20,374,785	53,662,611	66,821,905	140,859,301
2012	33,888,620	60,658,231	90,435,159	184,982,010
2013	37,552,122	63,172,589	79,811,759	180,536,470
2014	46,604,884	58,870,182	152,172,018	257,647,084
2015	42,638,486	56,387,080	152,172,018	251,197,584
2016	46,106,462	48,975,578	167,051,515	262,133,555
2017	89,887,813	85,066,607	151,533,673	326,488,093
2018	72,486,981	66,802,398	108,035,976	247,325,355
2019	51,750,024	35,889,254	84,555,316	172,194,594

¹ Includes contributed assets

SEWERAGE & WATER BOARD OF NEW ORLEANS SCHEDULE OF FUTURE DEBT PAYMENTS DECEMBER 31, 2019 (Unaudited)

		(Unaudited)		
		Series 2014	Vater Revenue Bonds Series 2015	All Bonds Issues
2020	Principal	2,930,000	895,000	3,825,000
	Interest	4,760,000	4,888,550	9,648,550
2021	Principal	3,070,000	935,000	4,005,000
	Interest	4,613,500	4,852,750	9,466,250
2022	Principal	3,225,000	970,000	4,195,000
	Interest	4,460,000	4,815,350	9,275,350
2023	Principal	2,230,000	2,155,000	4,385,000
	Interest	4,298,750	4,786,250	9,085,000
2024	Principal	2,345,000	2,260,000	4,605,000
	Interest	4,187,250	4,678,500	8,865,750
2025	Principal	2,460,000	2,375,000	4,835,000
	Interest	4,070,000	4,565,500	8,635,500
2026	Principal	2,585,000	2,490,000	5,075,000
	Interest	3,947,000	4,446,750	8,393,750
2027	Principal	2,715,000	2,615,000	5,330,000
	Interest	3,817,750	4,322,250	8,140,000
2028	Principal	2,850,000	2,750,000	5,600,000
	Interest	3,682,000	4,191,500	7,873,500
2029	Principal	2,990,000	2,885,000	5,875,000
	Interest	3,539,500	4,054,000	7,593,500
2030	Principal	3,140,000	3,030,000	6,170,000
	Interest	3,390,000	3,909,750	7,299,750
2031	Principal	3,300,000	3,180,000	6,480,000
	Interest	3,233,000	3,758,250	6,991,250
2032	Principal	3,460,000	3,345,000	6,805,000
	Interest	3,068,000	3,599,250	6,667,250
2033	Principal	3,635,000	3,510,000	7,145,000
	Interest	2,895,000	3,432,000	6,327,000
2034	Principal	3,820,000	3,680,000	7,500,000
	Interest	2,713,250	3,256,500	5,969,750
2035	Principal	4,010,000	3,865,000	7,875,000
	Interest	2,522,250	3,072,500	5,594,750
2036	Principal	4,210,000	4,060,000	8,270,000
	Interest	2,321,750	2,879,250	5,201,000
2037	Principal	4,420,000	4,265,000	8,685,000
	Interest	2,111,250	2,676,250	4,787,500
2038	Principal	4,645,000	4,475,000	9,120,000
	Interest	1,890,250	2,463,000	4,353,250
2039	Principal	4,875,000	4,700,000	9,575,000
	Interest	1,658,000	2,239,250	3,897,250
2040	Principal	5,120,000	4,930,000	10,050,000
	Interest	1,414,250	2,004,250	3,418,500
2041	Principal	5,370,000	5,185,000	10,555,000
	Interest	1,158,250	1,757,750	2,916,000
2042	Principal	5,645,000	5,435,000	11,080,000
	Interest	889,750	1,498,500	2,388,250
2043	Principal	5,925,000	5,710,000	11,635,000
	Interest	607,500	1,226,750	1,834,250
2044	Principal	6,225,000	5,995,000	12,220,000
	Interest	311,250	941,250	1,252,500
2045	Principal Interest		12,830,000 641,500	12,830,000 641,500
Total Prin	cipal	95,200,000	98,525,000	193,725,000
Total Inter		71,559,500	84,957,400	156,516,900
Total Futu		\$ 166,759,500	\$ 183,482,400	\$350,241,900

SEWERAGE & WATER BOARD OF NEW ORLEANS SCHEDULE OF FUTURE DEBT PAYMENTS DECEMBER 31, 2019 (Unaudited)

			S	ewer Revenue Bonds		
		Series 2011	Series 2014	Series 2015	Series 2019	Total
2020	Principal Interest	439,000 26,421	11,660,000 4,574,075	5,000,000		12,099,000 9,600,496
2021	Principal Interest	443,000 24,446	9,050,000 4,056,325	2,000,000 4,950,000	127,550	11,620,550 9,030,771
2022	Principal Interest	447,000 22,452	7,445,000 3,643,950	2,000,000 4,850,000		9,892,000 8,516,402
2023	Principal Interest	451,000 20,440	3,920,000 3,359,825	2,000,000 4,750,000		6,371,000 8,130,265
2024	Principal Interest	456,000 18,412	3,760,000 3,167,825	2,000,000 4,650,000		6,216,000 7,836,237
2025	Principal Interest	460,000 16,360	1,970,000 3,024,575	2,125,000 4,546,875		4,555,000 7,587,810
2026	Principal Interest	464,000 14,290	2,070,000 2,923,575	2,235,000 4,437,875		4,769,000 7,375,740
2027	Principal Interest	469,000 12,202	2,175,000 2,817,450	2,350,000 4,323,250		4,994,000 7,152,902
2028	Principal Interest	473,000 10,090	2,280,000 2,706,075	2,480,000 4,202,500		5,233,000 6,918,665
2029	Principal	478,000	2,395,000	2,610,000		5,483,000
2030	Interest Principal	7,962 482,000	2,589,200 2,515,000	4,075,250 2,735,000		6,672,412 5,732,000
2031	Interest Principal Interest	5,812 487,000 3,642	2,475,881 2,620,000 2,366,762	3,941,625 2,880,000 3,801,250		6,423,318 5,987,000 6,171,654
2032	Principal Interest	491,000 1,450	2,735,000 2,252,969	3,025,000 3,653,625		6,251,000 5,908,044
2033	Principal Interest	1,430	2,850,000	3,695,000		6,545,000
2034	Principal Interest		2,134,287 2,970,000 2,010,613	3,485,625 3,885,000 3,296,125		5,619,912 6,855,000 5 306 738
2035	Principal		3,095,000	4,100,000		5,306,738 7,195,000
2036	Interest Principal		1,870,125 3,250,000	3,096,500 4,315,000		4,966,625 7,565,000
2037	Interest Principal		1,711,500 3,415,000	2,886,125 4,540,000		4,597,625 7,955,000
2038	Interest Principal		1,544,875 3,585,000	2,664,750 4,775,000		4,209,625 8,360,000
2039	Interest Principal		1,369,875 3,765,000	2,431,875 5,025,000		3,801,750 8,790,000
2040	Interest Principal		1,186,125 3,950,000	2,186,875 5,290,000		3,373,000 9,240,000
2041	Interest Principal		993,250 4,150,000	1,929,000 5,565,000		2,922,250 9,715,000
2042	Interest Principal		790,750 4,360,000	1,657,625 5,855,000		2,448,375 10,215,000
2043	Interest Principal		578,000 4,575,000	1,372,125 6,165,000		1,950,125 10,740,000
2044	Interest Principal		354,625 4,805,000	1,071,625 6,485,000		1,426,250 11,290,000
2045	Interest Principal Interest		120,125	755,375 11,865,000 296,625		875,500 11,865,000 296,625
Total Princip Total Interes	pal	6,040,000 183,979	99,365,000 54,622,637	296,625 100,000,000 84,312,500	127,550	296,625 205,532,550 139,119,116
	: Debt Payments	6,223,979	153,987,637	184,312,500	127,550	344,651,666

SEWERAGE & WATER BOARD OF NEW ORLEANS SCHEDULE OF FUTURE DEBT PAYMENTS DECEMBER 31, 2019

(Unaudited)

		Drainage Special Tax Bonds			
		 Series			
		 2014		Issues	
2020	Principal	\$ 1,895,000	\$	1,895,000	
	Interest	140,950		140,950	
2021	Principal	1,955,000		1,955,000	
	Interest	84,100		84,100	
2022	Principal	2,000,000		2,000,000	
	Interest	 45,000		45,000	
Total Princip	pal	5,850,000		5,850,000	
Total Interes	t	 270,050		270,050	
Total Future	Debt Payments	\$ 6,120,050	\$	6,120,050	

SEWERAGE & WATER BOARD OF NEW ORLEANS SCHEDULE OF FUTURE DEBT PAYMENTS DECEMBER 31, 2019 (Unaudited)

ncipal erest ncipal erest ncipal erest ncipal erest ncipal erest ncipal erest ncipal erest ncipal erest ncipal erest ncipal erest	Water \$ 3,825,000 9,648,550 4,005,000 9,466,250 4,195,000 9,275,350 4,385,000 9,085,000 4,605,000 8,865,750 4,835,000 8,635,500 5,075,000 8,393,750 5,330,000 8,140,000	Sewer \$ 12,099,000 9,600,496 11,620,550 9,030,771 9,892,000 8,516,402 6,371,000 8,130,265 6,216,000 7,836,237 4,555,000 7,587,810 4,769,000 7,375,740 4,994,000	Drainage \$ 1,895,000 140,950 1,955,000 84,100 2,000,000 45,000	Total \$ 17,819,000 19,389,996 17,580,550 18,581,121 16,087,000 17,836,752 10,756,000 17,215,265 10,821,000 16,701,987 9,390,000 16,223,310
erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest	9,648,550 4,005,000 9,466,250 4,195,000 9,275,350 4,385,000 9,085,000 4,605,000 8,865,750 4,835,000 8,635,500 5,075,000 8,393,750 5,330,000	9,600,496 11,620,550 9,030,771 9,892,000 8,516,402 6,371,000 8,130,265 6,216,000 7,836,237 4,555,000 7,587,810 4,769,000 7,375,740	140,950 1,955,000 84,100 2,000,000 45,000 - - - - - - - - - - - - - - - - - -	19,389,996 17,580,550 18,581,121 16,087,000 17,836,752 10,756,000 17,215,265 10,821,000 16,701,987 9,390,000
erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest	9,466,250 4,195,000 9,275,350 4,385,000 9,085,000 4,605,000 8,865,750 4,835,000 8,635,500 5,075,000 8,393,750 5,330,000	9,030,771 9,892,000 8,516,402 6,371,000 8,130,265 6,216,000 7,836,237 4,555,000 7,587,810 4,769,000 7,375,740	84,100 2,000,000 45,000 - - - - - - - - - - - - - - - - -	18,581,121 16,087,000 17,836,752 10,756,000 17,215,265 10,821,000 16,701,987 9,390,000
erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest neipal erest	4,195,000 9,275,350 4,385,000 9,085,000 4,605,000 8,865,750 4,835,000 8,635,500 5,075,000 8,393,750 5,330,000	9,892,000 8,516,402 6,371,000 8,130,265 6,216,000 7,836,237 4,555,000 7,587,810 4,769,000 7,375,740	2,000,000 45,000 - - - - - - - - -	16,087,000 17,836,752 10,756,000 17,215,265 10,821,000 16,701,987 9,390,000
ncipal erest ncipal erest ncipal erest ncipal erest ncipal erest ncipal erest	4,385,000 9,085,000 4,605,000 8,865,750 4,835,000 8,635,500 5,075,000 8,393,750 5,330,000	6,371,000 8,130,265 6,216,000 7,836,237 4,555,000 7,587,810 4,769,000 7,375,740	-	10,756,000 17,215,265 10,821,000 16,701,987 9,390,000
ncipal erest erest ncipal erest ncipal erest ncipal erest erest	4,605,000 8,865,750 4,835,000 8,635,500 5,075,000 8,393,750 5,330,000	6,216,000 7,836,237 4,555,000 7,587,810 4,769,000 7,375,740	-	10,821,000 16,701,987 9,390,000
ncipal erest erest ncipal erest ncipal erest erest	4,835,000 8,635,500 5,075,000 8,393,750 5,330,000	4,555,000 7,587,810 4,769,000 7,375,740		9,390,000
ncipal erest ncipal erest ncipal erest	5,075,000 8,393,750 5,330,000	4,769,000 7,375,740		16,223,310
ncipal erest ncipal erest	5,330,000			9,844,000
erest neipal erest			-	15,769,490 10,324,000
erest		7,152,902	1 <u></u> 11	15,292,902
noinal	5,600,000 7,873,500	5,233,000 6,918,665		10,833,000 14,792,165
ncipal erest	5,875,000 7,593,500	5,483,000 6,672,412	-	11,358,000 14,265,912
ncipal erest	6,170,000 7,299,750	5,732,000 6,423,318	-	11,902,000 13,723,068
ncipal erest	6,480,000 6,991,250	5,987,000 6,171,654	-	12,467,000 13,162,904
ncipal erest	6,805,000 6,667,250	6,251,000 5,908,044	-	13,056,000 12,575,294
ncipal	7,145,000	6,545,000	1311	13,690,000
erest ncipal	6,327,000 7,500,000	5,619,912 6,855,000		11,946,912 14,355,000
erest neipal	5,969,750 7,875,000	5,306,738 7,195,000	-	11,276,488 15,070,000
erest ncipal	5,594,750 8,270,000	4,966,625 7,565,000	-	10,561,375 15,835,000
erest	5,201,000	4,597,625		9,798,625
ncipal erest	8,685,000 4,787,500	7,955,000 4,209,625		16,640,000 8,997,125
ncipal erest	9,120,000 4,353,250	8,360,000 3,801,750	-	17,480,000 8,155,000
ncipal erest	9,575,000 3,897,250	8,790,000 3,373,000		18,365,000 7,270,250
ncipal erest	10,050,000 3,418,500	9,240,000 2,922,250		19,290,000 6,340,750
ncipal	10,555,000	9,715,000	-	20,270,000 5,364,375
ncipal	11,080,000	10,215,000	-	21,295,000
ncipal	11,635,000	10,740,000	-	4,338,375 22,375,000
erest ncipal	1,834,250 12,220,000	1,426,250 11,290,000		3,260,500 23,510,000
erest	1,252,500	875,500		2,128,000 24,695,000
	641,500	296,625		938,125
erest	156,516,900	139,119,116	270,050	405,107,550 295,906,066 \$ 701,013,616
	ncipal rrest rrest ncipal rrest ncipal rrest ncipal ncipal	ncipal 10,555,000 rrest 2,916,000 ncipal 11,080,000 rrest 2,388,250 ncipal 11,635,000 rrest 1,834,250 ncipal 12,220,000 rrest 1,252,500 ncipal 12,830,000 rrest 641,500 193,725,000 156,516,900	ncipal 10,555,000 9,715,000 rrest 2,916,000 2,448,375 ncipal 11,080,000 10,215,000 rrest 2,388,250 1,950,125 ncipal 11,635,000 10,740,000 rrest 1,834,250 1,426,250 ncipal 12,220,000 11,290,000 rrest 1,252,500 875,500 ncipal 12,830,000 11,865,000 rrest 641,500 296,625 193,725,000 205,532,550 156,516,900 139,119,116	

SEWERAGE AND WATER BOARD OF NEW ORLEANS PROPERTY VALUE, NEW CONSTRUCTION AND BANK DEPOSITS Last Ten Fiscal Years (Unaudited)

	New Commercial Construction (1)			New Residential Construction (1)				Bank	
Fiscal	Number		Value	Number	Value		deposits (2)		
Year	of units	(in	thousands)	of units (in thousands)		(in thousands)			
2010	349	S	549,906	1,102	\$	160,331	S	12,175,831	
2011	365		266,981	1,047		161,875		10,024,118	
2012								10,862,390	
2013								15,738,913	
2014								16,043,233	
2015								11,211,760	
2016								16,706,112	
2017								16,701,964	
2018								15,293,912	
2019								16,120,898	

(1) City of New Orleans (2011 latest year for which information is available).

(2) Summary of Deposits (as of June 30, 2019) - bank branches located in New Orleans, Federal Depository Insurance Corporation.

SEWERAGE AND WATER BOARD OF NEW ORLEANS ANNUAL REPORT 2019 - FOR THE CALENDAR YEAR ENDING DECEMBER 31, 2019 CAPITAL ASSET STATISTICS BY FUNCTION Last Ten Fiscal Years (Unaudited)

		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Water:											
	Water Lines [miles]	1,590	1,597	1,599	1,805	1,812	1,819	1.823	1,826	1,834	1,835
	Water Manholes	29.957	30,150	30,194	30,297	30,402	30,463	30,508	30,586	30,650	30,862
	Water Valves	29,366	29,611	29,521	29,629	29,730	29,791	29,831	29,940	29,990	30,316
	Fire Hydrants	22,989	23,045	23,078	23,099	23,117	23,130	23.146	23,214	23,264	23,264
Sewer:											
	Sewer Lines [miles]	1,518	1.519	1,520	1,536	1,547	1.561	1,568	1,585	1,602	1,605
	Sewer Manholes	23,047	22,977	22,983	22,987	23,042	23,051	23,115	23,158	23,208	23,229

SEWERAGE AND WATER BOARD OF NEW ORLEANS NUMBER OF ACTIVE EMPLOYEES Last Ten Fiscal Years (Unaudited)

Year	Number of Active Employees
2019	1483
2018	1210
2017	1083
2016	1108
2015	1183
2014	1060
2013	1025
2012	991
2011	994
2010	974

SUPPLEMENTAL SECTION



The treated water at our two water plants is pumped through more than 1,610 miles of mains to more than 100,000 service connections. It is delivered to approximately 300,000 people on the east bank of Orleans Parish and approximately 53,000 people on the west bank.

SEWERAGE AND WATER BOARD OF NEW ORLEANS December 31, 2019 ACTUAL CAPITAL EXPENDITURES

WATER DEPARTMENT

<u>C.P.#</u> <u>WATERWORKS</u>

110 112 122 156 157	Normal Extension & Replacement Modifications to Oak St. Raw Water Intake Station Sycamore and Claiborne Filter Rehabilitation Advanced Water Treatment (Carrollton) Advanced Water Treatment (Algiers)	 \$ 4,271,269.62 901,937.71 1,678,870.68 824,287.95 4,453,184.93
159	Water Plant Security Improvements	216,400.20
175	Water Hurricane Recovery Bonds	26,642,808.87
180	FEMA Review of Change Orders - Water	(25,494,833.96)
	TOTAL WATERWORKS	13,493,926.00
	WATER DISTRIBUTION	
214	Normal Extension & Replacement	242,955.16
239	Mains DPW Contracts	143,551.18
	TOTAL WATER DISTRIBUTION	386,506.34
	POWER PROJECTS AND GENERAL BUDGET	
600	Water Share of Power Projects	15,163,132.72
700	Water Reserve for Emergencies	5,839,119.05
800	Water Share of General Budget Items	9,063,102.51
	GENERAL BUDGET	30,065,354.28
	TOTAL WATER DEPARTMENT	S 43,945,786.62

NOTE: These figures do not include proration of interest expense.

SEWERAGE AND WATER BOARD OF NEW ORLEANS December 31, 2019 ACTUAL CAPITAL EXPENDITURES

SEWERAGE DEPARTMENT

<u>C.P.#</u> <u>SEWERAGE SYSTEM</u>

310	Ext & Replace - Gravity Mains EPA Consent Decree	\$ 2,288,500.83
317	Ext & Replace - Gravity Mains EPA Consent Decree	4,424,197.85
318	Rehabilitation Gravity Sewer System	45,609.16
326	Ext. Rep to plumbing Stations EPA Consent Deree	401,304.81
339	Main in Streets Dept. Contracts	73,632.73
340	Sewerage Hurricane Recovery Bonds (FEMA	1,709,543.73
348	Normal Extensions & Replacements	5,474,198.68
368	Wetland Assimilation	(177,511.23)
375	Sewerage Hurricane Recovery Bonds	20,801,278.22
380	FEMA Review of Change Orders-Sewer	(24,869,730.24)
	TOTAL SEWERAGE SYSTEM	 10,171,024.54

POWER PROJECTS AND GENERAL BUDGET

600 800	Sewerage Share of Power Projects Sewerage Share of General Budget Items	6,128,891.49 9,371,624.25
	TOTAL GENERAL BUDGET	 15,500,515.74
	TOTAL SEWERAGE DEPARTMENT	\$ 25,671,540.28

SEWERAGE AND WATER BOARD OF NEW ORLEANS December 31, 2019 ACTUAL CAPITAL EXPENDITURES

DRAINAGE DEPARTMENT

<u>C.P.#</u> <u>CANALS</u>

418	Normal Extension & Replacements	S	13,152.34
439	Major Drainage Participation in DPW Projects		122,678.00
466	Louisiana Avenue Canal (SELA)		9,052,407.12
471	SELA Program Management		2,473,296.25
478	S. Claiborne-Lowerline to Monticello Street		(792,878.44)
480	FEMA Review of Change Orders-Drainage		(14,597,249.95)
496	Gen De Gaulle Drainage Canal SELA		1,044,725.20
497	Florida Ave. Canal - DPS#19 to Peoples Ave. (SELA-B)		1,700,739.69
498-00	Dwyer Intake Canal(St. Charles Canal to Dwyer DPS)(SELA)		78,423.50
	TOTAL DRAINAGE CANALS		(904,706.29)
	PUMPING STATIONS		
511	Normal Extension & Rep./Stations		5,838,889.97
535	DPS #6 Improvements		(56,769.63)
575	Drainage Hurricane Recovery Bonds		3,361,327.66
	TOTAL DRAINAGE PUMPING STATIONS		9,143,448.00
	POWER PROJECTS AND GENERAL BUDGET		
600	Drainage Share of Power Projects		23,985,070.94
800	Drainage Share of General Budget Items		4,155,975.75
	TOTAL GENERAL BUDGET		28,141,046.69
	TOTAL DRAINAGE DEPARTMENT	S	36,379,788.40

SEWERAGE AND WATER BOARD OF NEW ORLEANS December 31, 2019 ACTUAL CAPTIAL EXPENDITURES

		<u>P</u>	OWER PROJECT	<u> </u>				
<u>C.P.#</u>	POWER PROJECTS		Water		Sewerage		Drainage	Total
612	Furnish Generators for Drainage Facilities	\$	-	\$	-	\$	-	\$ -
613	Modification of Steam System		-		-		-	-
624	Extension and Replacements to Electrical System		5,749.64		4,758.61		4,278.75	14,787.00
676	Modification to Power Generating System (HMGP)		15,004,113.40		5,970,863.21		23,904,157.35	44,879,133.96
676-05	Hazard Mitigation Power Program		153,269.68		153,269.67		76,634.84	383,174.19
701	Water Reserve for Emergencies		5,839,119.05		-		-	5,839,119.05
	TOTAL POWER PROJECTS	S	21,002,251.77	\$	6,128,891.49	S	23,985,070.94	\$ 51,116,214.20

SEWERAGE AND WATER BOARD OF NEW ORLEANS December 31, 2019 ACTUAL CAPITAL EXPENDITURES

GENERAL BUDGET ITEMS

<u>C.P.#</u>	General Budget Items	Water	Sewerage	Drainage	<u>Total</u>
807	Improvements to Central Yard and St. Joseph St.	\$ 139,535.08	S 139,535.08	\$ 102,782.92	S 381,853.08
810	Major Equipment Purchases	9,259.33	9,259.34	9,259.33	27,778.00
812	Computer Systems Development	101,948.25	101,948.25	51,469.92	255,366.42
820	Overhead Charged to Capital	5,722,008.48	8,047,850.34	3,735,115.52	17,504,974.34
823	Purchase of Water Meters	292,823.29	292,823.26	-	585,646.55
824	Meter Boxes and Meter Parts	404,247.97	404,247.82	-	808,495.79
843	Minor Equipment Purchases	210,246.06	210,246.04	210,246.06	630,738.16
862	Fire Hydrants and Related Parts	2,176,607.50	159,287.50	-	2,335,895.00
875	Project Delivery Unit Expenses	6,426.55	6,426.62	6,426.55	19,279.72
879	Green Infrastructure	-	-	40,675.45	40,675.45
	TOTAL GENERAL BUDGET ITEMS	\$ 9,063,102.51	S 9,371,624.25	\$ 4,155,975.75	S 22,590,702.51

SEWERAGE AND WATER BOARD OF NEW ORLEANS ANALYSIS OF PUMPING AND POWER DEPARTMENT POWER PURCHASED AND PRODUCED NATURAL GAS AND FUEL OIL CONSUMED TEN YEARS 2010 THROUGH 2019

	ELECTRI	C POWER E	STIMATED EL	ECTRIC POWE								
YEAR	PURCH	HASED	GENERA	ATED BY	TO	TO GENERATE ELECTRIC POWER						
			THE	S&WB	NATUR	AL GAS	FU	FUEL OIL				
	KW-HRS	S AMOUNT	KW-HRS	\$ AMOUNT	MCF	\$ AMOUNT	GALLONS	\$ AMOUNT				
2010	70,609,461	S 6,653,752	39,090,720	S 9,719,013	1,332,770	\$ 9,669,414	12,883	S 49,600				
2011	70,049,094	S 6,180,373	27,351,600	S 10,721,624	1,552,330	\$ 10,721,356	315	S 268				
2012	63,873,900	S 5,941,992	44,819,460	S 9,180,160	1,605,720	\$ 9,174,678	1,459	S 5,482				
2013	67,980,940	S 6,725,811	35,005,422	S 11,648,150	1,830,890	\$ 11,648,148	9	S 34				
2014	68,632,618	S 7,052,078	32,407,296	S 12,442,213	1,643,347	\$ 12,442,282	9	S 69				
2015	73,123,062	S 6,660,862	29,217,520	S 9,483,132	1,780,110	\$ 9,483,132	0	S -				
2016	69,736,118	S 7,081,051	33,182,519	S 9,082,988	1,854,370	\$ 9,082,988	0	S -				
2017	70,728,827	S 7,969,494	32,540,663	S 10,183,627	1,817,671	\$ 10,183,627	84,040	S 252,120				
2018	72,722,564	S 7,985,028	34,262,650	S 10,476,819	1,896,920	\$ 10,476,819	0	S -				
2019	68,196,018	S 6,748,151	44,466,400	S 8,466,612	1,668,810	\$ 8,466,612	992	S 2,976				
TOTALS	695,652,602	S 68,998,592	352,344,250	S 101,404,338	16,982,938	\$ 101,349,055	99,707	S 310,548				

SEWERAGE AND WATER BOARD OF NEW ORLEANS POWER PURCHASED AND PRODUCED NATURAL GAS AND FUEL OIL CONSUMED - 2019

	KW-HOURS	COST
ELECTRIC POWER PURCHASE	68,196,018	\$6,748,150.53
ELECTRIC AND STEAM POWER GENERATED BY THE S.& W.B.*	44,466,400	\$8,466,611.98
TOTAL	112,662,418	\$15,214,762.51

NOTE: *NATURAL GAS CONSUMED IN OPERATION WAS 16,688,100 CCF AT A COST OF \$8,466,611.98. FUEL OIL CONSUMED WAS 992 GALLONS.

SEWERAGE AND WATER BOARD OF NEW ORLEANS PAY WATER CONSUMPTION (IN GALLONS) December 31, 2019

Month	Consumption
JANUARY	1,511,988,600
FEBRUARY	1,872,329,500
MARCH	1,373,259,400
APRIL	1,476,198,400
MAY	1,134,944,700
JUNE	2,411,917,000
JULY	1,248,450,400
AUGUST	1,342,550,800
SEPTEMBER	1,248,237,500
OCTOBER	1,510,572,900
NOVEMBER	778,119,700
DECEMBER	1,595,107,900

Total	Customer	Water	Metered	
TOTT	CUSCOMICI		1,10,001,000	

17,503,676,800

SEWERAGE AND WATER BOARD OF NEW ORLEANS MONTHLY WATER CHARGES COLLECTED - 2019

Months		Water Service Tharges & Fees		Delinquent Fees	Total		
January	S	7,269,033.43	S	145,535.74	\$	7,414,569.17	
February		6,261,339.99		136,460.51		6,397,800.50	
March		6,835,909.29		98,609.24		6,934,518.53	
April		8,024,726.33		182,468.61		8,207,194.94	
May		8,128,278.17		148,477.84		8,276,756.01	
June		7,547,372.02		150,561.76		7,697,933.78	
July		9,662,101.14		194,163.07		9,856,264.21	
August		8,483,471.41		190,224.48		8,673,695.89	
September		8,246,458.60		171,489.98		8,417,948.58	
October		10,133,619.77		192,929.64		10,326,549.41	
November		9,064,554.85		213,661.54		9,278,216.39	
December		8,126,347.71		141,735.87		8,268,083.58	
	S	97,783,212.71	S	1,966,318.28	\$	99,749,530.99	

SEWERAGE AND WATER BOARD OF NEW ORLEANS MONTHLY SEWERAGE CHARGES COLLECTED - 2019

	S	ewerage Service		Delinquent				
Months		Charges	Fees			Total		
January	S	10,283,063.57	S	183,074.00	\$	10,466,137.57		
February		8,856,052.16		174,247.05		9,030,299.21		
March		10,920,959.77		123,706.28		11,044,666.05		
April		11,750,766.03		171,100.81		11,921,866.84		
May		11,709,701.42		184,362.46		11,894,063.88		
June		10,666,269.90		193,563.56		10,859,833.46		
July		12,418,687.32		240,120.23		12,658,807.55		
August		11,484,226.89		244,490.68		11,728,717.57		
September		11,249,670.91		225,192.10		11,474,863.01		
October		13,327,186.70		246,420.26		13,573,606.96		
November		7,943,403.22		256,513.62		8,199,916.84		
December		11,698,149.56		180,495.45		11,878,645.01		
	S	132,308,137.45	S	2,423,286.50	\$	134,731,423.95		

SEWERAGE AND WATER BOARD OF NEW ORLEANS December 31, 2019

CARROLLTON TURBIDITIES

	River (NTU)				E	ffluent S	ettling l (NTU)	Reservo	irs	Filters (NTU)					
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
Maximum	273	271	345	242	174	6.9	14	10	17	12	0.21	0.31	0.33	0.34	0.33
Minimum	7	13	6	8	12	1.0	0.9	1.0	0.7	0.8	0.07	0.07	0.04	0.05	0.04
Average	71	63	86	62	55	2.3	2.9	2.8	2.5	2.5	0.10	0.13	0.13	0.13	0.13

TABLE II

CARROLLTON ALKALINITIES PARTS PER MILLION

				River			E	ffluent S	lettling 1	Reservo	irs			Filters		
	1	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
Maximum		160	201	161	164	147	160	205	152	152	142	190	230	188	184	162
Minimum		75	81	95	65	81	56	60	74	57	68	82	87	104	86	100
Average		116	130	124	117	118	105	118	113	105	107	128	146	139	131	136

TABLE II A

CARROLLTON HARDNESS PARTS PER MILLION

		NC	DN-CAR	BONA	TE HAF	DNESS	5							TOT	AL HAF	DNESS	;			
		RIVER	a - 12			F	ILTER	S				RIVER				FIL	TERS	19 A		
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
Maximum	90	86	79	68	72	81	102	132	75	87	233	272	211	229	198	245	304	245	235	224
Minimum	14	12	21	11	15	12	11	20	14	11	106	108	127	98	100	115	127	142	122	140
Average	43	40	42	37	37	51	48	49	45	46	159	169	166	154	155	178	197	189	176	182

TABLE III

CARROLLTON BACTERIAL CHARACTERISTICS TOTAL COLIFORM ANALYSIS

2019	River	Plant Tap	Distribution System
Maximum (Colonies / 100 ml)	1,260	1	9
Minimum (Colonies / 100 ml)	86	0	C
Average (colonies / 100 ml)	540	0	0
Number of Samples	240	365	1,897
Number of Samples Negative	0	364	1,890
Number of Samples Positive	240	1	7*

* None of these 7 total coliform positive samples was*E. coli* positive, and none resulted in a violation of the Total Coliform Rule.

TABLE IV-A

PRINCIPLE RESULTS OF OPERATION OF THE G3 CONVENTIONAL UNIT AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR ENDING: December 31, 2019

1	2	3	4	5	6	7	8	9	10	11	12	13
Month		Volume of Water Treated During Month (Millions of Gallons)	Volume of Water Treated (Millions of Gallons Per Day)	Total Pounds of Polymer Used at Intake During Month	Polymer Used at Intake (ppm)	Total Pounds of Polymer Used in Plant During Month	Polymer Used in Plant (ppm)	Total Pounds of Pure Iron (Fe) Used During Month	Pure Iron (Fe) (ppm)	Turbidity of River Water (NTU)	Alkalinity of River Water (ppm as CaCO3)	Turbidity of Unit Effluent (NTU)
January	Max Min Avg	0.00	0.00 0.00 0.00									
February	Max Min Avg	0.00	0.00 0.00 0.00									
March	Max Min Avg	0.00	0.00 0.00 0.00									
April	Max Min Avg	0.00	0.00 0.00 0.00									
May	Max Min Avg	0.00	0.00 0.00 0.00									
June	Max Mm Avg	1,477.38	83.00 45.88 77.76	0	0.00 0.00 0.00	56,784	5.17 4.36 4.60		5.59 4.94 5.21		134 112 119	
July	Max Min Avg	2.439.88	85.54 72.00 78.71	0	0.00 0.00 0.00	75,268	9.17 2.96 3.70	85,327	10.41 3.35 4.19	15	134 112 126	0.8
August	Max Min Avg	2,392.00	82.00 73.29 77.16	0	0.00 0.00 0.00	60.614	3.28 2.53 3.04	68,891	3.74 2.88 3.46	36 12	138 123 130	0.8
September	Max Min Avg	2,385.78	85.58 74.29 79.53	0	0.00 0.00 0.00	51,294	2.94 2.43 2.58	58,272	3.36 2.78 2.93	71	147 123 130	1.2
October	Max Mm Avg	2,486.21	84.29 77.04 80.20	0	0.00 0.00 0.00	65,981	3.72 2.47 3.18	74,884	4.23 2.81 3.61	174 17 79	143 119 134	3.7 1.1
November	Max Min Avg	2.452.53	86.83 78.17 81.75	0	0.00 0.00 0.00	74,031	4.21 3.28 3.62	•	4.77 3.72 4.11	101	144 126 134	4.0 1.2
December	Max Min Avg	2,514.54	94.13 77.71 81.11	0	0.00 0.00 0.00	91,038	4.90	103,146	5.56 4.43 4.92	107	145 112 128	4.9 1.1
Annual	Total Max Min	16,148.32 2,514.54 0.00	94.13 0.00	0 0 0	0.00	475,011 91,038 51,294	9.17 2.43	538,725 103,146 58,272	10.41 2.78	174	147 81	4.9
	Avg	1,345.69	79.55	0	0.00	67,859	3.53	76,961	4.00	55	118	1.8

TABLE IV-B

PRINCIPLE RESULTS OF OPERATION OF THE G4 CONVENTIONAL UNIT AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR ENDING: December 31, 2019

1	2	3	4	5	6	7	8	9	10	11	12	13
Month		Volume of Water Treated During Month (Millions of Gallons)	Volume of Water Treated (Millions of Gallons Per Day)	Total Pounds of Polymer Used at Intake During Month	Polymer Used at Intake (ppm)	Total Pounds of Polymer Used in Plant During Month	Polymer Used in Plant (ppm)	Total Pounds of Pure Iron (Fe) Used During Month	Pure Iron (Fe) (ppm)	Turbidity of River Water (NTU)	Alkalinity of River Water (ppm as CaCO3)	Turbidity of Unit Effluent (NTU)
January	Max Min	2,472.79	85.13 75.96 79.77	0	0.00 0.00 0.00	105.014	5.32 4.86 5.09	116,326	5.90 5.39	26	120 100	1.6
February	Avg Max Min Avg	2,245.75	82.63 76.88 80.21	0	0.00 0.00 0.00 0.00	95,180	5.33	105,493	5.64 5.90 5.44 5.63	68 34	110 115 92 103	3.0 4.1 1.3 2.6
March	Max Min Avg	2,477.28	82.96 76.38 79.91	0	0.00		5.10	116,262	5.86 5.32 5.63	44 60	99 81 88	6.7 1.1 2.6
April	.Max Min Avg	2,358.03	86.71 68.83 78.60	0	0.00 0.00 0.00	99,603	5.60 4.53 5.07	110,343	6.21 5.02 5.62	38- 82	112 92 103	9.3 1.1 2.3
May	Max Min Avg	2,430.42	82.50 73.08 78.40	0	0.00	100,538	4.96	113,176	5.58	37 73	118 98 110	2.3
June	Max Min Avg	887.51	81.25 24.88 73.96	0	0.00 0.00 0.00		6.34 4.46 4.69	37,688	7.04 4.95 5.20	22	134 112 119	7.0 1.9 3.5
July	Max Min Avg	0.00	0.00 0.00 0.00									
August	Max Min Avg	0.00	0.00 0.00 0.00							•		
September	Max Min Avg	0.00	0.00 0.00 0.00									
October	Max Min Avg	0.00	0.00 0.00 0.00									
November	Max Min Avg	0.00	0.00 0.00 0.00							•		
December	Max Min Avg	0.00	0.00 0.00 0.00									
Annual	Total Max Min Avg	12,871.78 2,477.28 0.00 1,072.65	86.71 0.00 78.97	0 0 0 0	0.00 0.00 0.00	33,986	6.34	599.290 116.326 37,688 99,882	7.04 4.95 5.58	12	147 81 118	9.3 1.0 2.6

TABLE IV-C

PRINCIPLE RESULTS OF OPERATION OF THE L3 CONVENTIONAL UNIT AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR ENDING: December 31, 2019

1	2	3	4	5	6	7	8	9	10	11	12	13
Month		Volume of Water Treated During Month (Millions of Gallons)	Vohume of Water Treated (Millions of Gallons Per Day)	Total Pounds of Polymer Used at Intake During Month	Polymer Used at Intake (ppm)	Total Pounds of Polymer Used in Plant During Month	Polymer Used in Plant (ppm)	Total Pounds of Pure Iron (Fe) Used During Month	Pure Iron (Fe) (ppm)	Turbidity of River Water (NTU)	Alkalinity of River Water (ppm as CaCO3)	Turbidity of Unit Effluent (NTU)
January	Max Min Avg	1,855.29	65.96 55.17 59.85	0	0.00 0.00 0.00		4.13 3.83 4.00	68,968	4.60 4.28 4.46	70 26 53	120 100 110	
February	Max Min Avg	1,679.13	62.92 55.54 59.97	0	0.00	56,148	4.14 3.81 4.01	64,082	4.45 7.57 4.25 4.58	68 34 48	110 115 92 103	5.5 5.5 1.9 3.1
March	Max Min Avg	1,820.67	62.63 53.92 58.73	0	0.00 0.00 0.00	61.242	4.40 3.76 4.03	68,106	4.90	109 44 60	99 81 88	5.4 1.6 3.1
April	Max Min Avg	1,768.14	65.88 51.63 58.94	0	0.00 0.00 0.00	66.455	4.79 4.03 4.51	73,251	5.27 4.49 4.97	143 38 82	112 92 103	6.5 2.1 3.9
May	Max Min Avg	1,834.71	68.75 51.50 59.18	0	0.00 0.00 0.00	68,696	4.75 4.15 4.49	75,732	5.23 4.60 4.95	148 37 73	118 98 110	4.5 1.6 2.4
June	Max Min Avg	1,775.63	69.75 52.17 59.19	0	0.00 0.00 0.00	59,574	4.14 3.91 4.02	66,316	4.64 4.34 4.48	88 22 55	134 112 119	
July	Max Min Avg	1.840.35	68.67 48.96 59.37	0	0.00 0.00 0.00	48,774	8.35 2.37 3.15	54,441	9.18 2.56 3.51	39 15 25	134 112 126	3.5 1.5 2.2
August	Max Min Avg	1.683.88	60.46 47.50 54.32	0	0.00 0.00 0.00	35.621	3.08 2.03 2.54	39,126	3.04 2.23 2.79	36 12 25	138 123 130	2.5 1.4 1.8
September	Max Min Avg	1,706.33	60.63 51.54 56.88	0	0.00 0.00 0.00	28,786	2.02	31,797	2.32 2.13 2.23	71 22 43	147 123 130	12.3 1.9 3.0
October	Max Min Avg	1,750.61	61.33 49.83 56.47	0	0.00 0.00 0.00	40,878	3.57 1.90 2.79	45,299	3.97 2.09 3.10	174 17 79	143 119 134	4.0 1.5 2.8
November	Max Min Avg	1,805.08	63.29 56.88 60.17	0	0.00 0.00 0.00	53.930	4.07 3.27 3.58	60,111	4.54 3.64 3.99	101 33 57	144 126 134	3.3
December	Max Min Avg	1,841.29	64.04 53.54 59.40	0	0.00 0.00 0.00	71,076	5.21 3.86 4.63	79,601	5.83 4.31 5.19	107 32 63	145 112 128	4.4 2.6 3.4
Annual	Total Max Min Avg	21.361.10 1,855.29 1,679.13 1,780.09	69.75 47.50 58.52	0 0 0 0	0.00 0.00 0.00		8.35 1.90 3.67	726,831 79,601 31,797 60,569	9.18 2.09 4.08	174 12 55	147 81 118	12.3 1.4 2.9

TABLE IV-D

PRINCIPLE RESULTS OF OPERATION OF THE L4 CONVENTIONAL UNIT AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR ENDING: December 31, 2019

1	2	3	4	5	6	7	8	9	10	11	12	13
Month		Volume of Water Treated During Month (Millions of Gallons)	Vohume of Water Treated (Millions of Gallons Per Day)	Total Pounds of Polymer Used at Intake During Month	Polymer Used at Intake (ppm)	Total Pounds of Polymer Used in Plant During Month	Polymer Used in Plant (ppm)	Total Pounds of Pure Iron (Fe) Used During Month	Pure Iron (Fe) (ppm)	Turbidity of River Water (NTU)	Alkalinity of River Water (ppm as CaCO3)	Turbidity of Unit Effluent (NTU)
January	Max Min Avg	0.00										
February	Max Min Avg	0.00										
March	Max Min Avg	0.00										
April	Max Min Avg	0.00										
May	Max Min Avg	0.00										
June	Max Min Avg	0.00										
July	Max Min Avg	0.00										
August	Max Min Avg	0.00										
September	Max Min Avg	0.00										
October	Max Min Avg	0.00										
November	Max Min Avg	0.00										
December [.]	Max Min Avg	0.00										
Annual	Total Max Min Avg	0.00 0.00 0.00 0.00										

*L4 Basin not in service for all of 2019

TABLE IV-E

MONTHLY SUMMARY OF COMBINED OPERATION OF CONVENTIONAL UNITS AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR ENDING: December 31, 2019

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	1	9
Month		Volume of Water Treated During Month (Millions of	Volume of Water Treated (Millions of Gallons Per Day)	Total Pounds of Polymer Used at Intake During Month	Total Pounds of Polymer Used in Plant During Month	Total Pounds of Fhioride (100%) Used During Month	Fluoride (ppm)	Total Pounds of Pure Iron (Fe) Used During Month	Total Pounds of Lime Used During Month	Lime (ppm)	Total Pounds of Chlorine Used During Month	Chlorine (ppm)	Total Pounds of Anhydrous Ammonia Used During Month	Ammonia (ppm)	Total Pounds of Polyphosphate Used During Month	Poly- phosphate (ppm)	Alkalinity of Filtered Water (ppm)	1	Volume of d Water M.G.D.
		Gallons)																	
January	Max. Min.	4,328.08	149.58 135.25	0	166,885	15.384	0.44 0.39	185,294	862,399	26.92 17.66	161.498	4.60		1.14 1.02	25,132	0.73		4,355	153 134
Januar y	Avg.	+,528.08	139.62	, v	100,000	15,504	0.39	160,594	002,399	23.90		4.27	40,000	1.11	20,102	0.85		4,555	134
r	Max.	-	145.54		•	-	0.42			23.90		4.47	1	1.11		0.70	135		140
February	Min.	3,924.88	134.29	0	151,328	13.790	0.40	169,575	805.411	21.05	143.347			1.06	22,860	0.67	108	3,950	132
,	Avg.	-,	140.17	_			0.42	,	,	24.61		4.38		1.14	,	0.70			141
	Max.		144.83		1		0.45			28.22		4.59		1.21		0.73	127		148
March	Min.	4,297.95	130.96	0	166,611	14,691	0.38	184,369	884,273	14.92	157,666	4.14	42,067	1.11	25,096	0.66	102	4,242	131
	Avg.		138.64				0.42			24.69		4.40	9	1.17		0.70	112		137
	Max.		149.63				0.45			28.17		5.23	1	1.38		0.79			148
April	Min.	4,126.18	124.22	0	166,059	13,694	0.35	183,595	825,687	15.89				1.11	25,561	0.67	117	4,198	
	Avg.		137.54				0.39			24.00		4.86		1.20		0.74	128		140
	Max.		151.25				0.55			25.92		5.37	1	1.32		0.73	142		158
May	Min.	4,265.13	128.79	0	169,233	15,035	0.35	188,908	779,948	17.79	176,172			1	25,105	0.68		4,042	97
	Avg.		137.58				0.45			21.95		4.96		1.19		0.71	128		130
T	Max.	4.140.51	147.75		150.345	15.348	0.56	1 60 21 7	070.006	28.37	105.257	5.52		1.32	24.200	0.73		2.764	133 119
June	Min.	4,140.51	131.21	Ů	150,345	15,548	0.42	168,217	870,985	21.02	185,357	5.06 5.37		1	24,200	0.68		3,764	119
-	Avg. Max.		138.02 150.67				0.49			25.20 28.27	· · · · · ·	5.37		1.26		0.70			125
July	Min.	4,280,22	124.96	0	124,042	18,380	0.60	139,768	725,727	14.84	198,441			1.17	26,032	0.68		4.182	132
July	Avg.	4,200.22	138.07	Ŭ	124,042	18,500	0.44	159,700	123,121	20.20	· ·	5.56		1.17	20,032	0.00		4,102	135
-	Max.		140.63				0.58			28.05		13.60		1.20		0.73	149		144
August	Min.	4,075.88	125.17	0	96,236	17.348	0.44	108,018	630,473	15.61	217.133		1		24,000	0.67	133	4,228	127
8	Avg.	.,	131.48	-	,=		0.49	,	,	18.51		6.38		1.32	,	0.71		.,	136
1	Max.		145.46				0.64			29.00		7.22		1.46		0.76	152		157
September	Min.	4,092.11	130.00	0	80,080	17,077	0.44	90,069	756,350	16.13	210,148			1.29	24,171	0.69	136	4,146	129
-	Avg.		136.40				0.49			22.12		6.15		1.39		0.71	143		138
	Max.		143.67				0.52			20.32		6.16	,	1.48		0.76	161		148
October	Min.	4,236.82	130.08	0	106,860	17,528	0.46	120,184	585,907	11.32	197,795	5.17	46,755	1.09	24,749	0.63	138	4,281	
	Avg.		136.67				0,49			16.62		5.60		1.32		0.70			138
	Max.]	148.70]]	0.49			19.04		6.65		1.25		0.74	162		147
November	Min.	4,257.61	138.08	0	127,961	16,784	0.43	144,103	515,137	9.70	175,580			1.11	24,599			4,264	139
ļ	Avg.		141.92		4		0,47			14.52	ļ	4.95		1.19		0.69	150		142
L .	Max.		158.17				0.51		(20.06		5.11		1.27		0.73			163
December	Min.	4,355.83	134.58	0	162,114	17,463	0.42	182,747	620,847	14.79					25,491	0.68		4,335	132
	Avg.	50.001.13	140.51	-		102.575	0.48			17.09		4.80		1.19		0.70	148	10.55	140
	Total	50,381.19		0	1,667,753	192,523		1,864,845	8,863,144	20.52	2,164,742		516,749		296,997			49,986	
Annual	Max.	4,355.83	158.17	0	169,233	18,380	0.64	188,908	884,273	29.00	· · ·		1	1.48	26,032	1.42		4,355	163
	Min. Avg.	3,924.88 4,198.43	124.22 138.03	0	80,080 138,979	13,694 16.044	0.35 0.46	90,069 155,404	515,137 738,595	9.70 21.09		4.14		1.02	22,860 24,750	0.63 0.71		3,764 4,166	97 137
	Avg.	4,198,45	158.05	0	156,979	10,044	0.46	155,404	736,367	21.09	100,393	1.0	43,062	1.23	24,730	0.71	136	4,100	137

TABLE V

PRINCIPLE RESULTS OF OPERATION OF THE ALGIERS WATER PURIFICATION PLANT FOR THE YEAR ENDING: December 31, 2019

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	2	21
Month		Low Lift Total Million Gallons of Water Treated	Amount of Water Treated Million Gallons Per	Total Pounds of Polyelec- trolyte Used During	Polyelec- trolyte Parts Per Million	Total Pounds of Fluoride (100%) Used During	Fluoride Parts Per Million	Total Pounds of Pure Iron (Fe) used During	Pure Iron (Fe) Parts Per Million	Total Pounds of Lime Used During Month	Lime Parts Per Million	Total Pounds of Anhydrous Ammonia Used During	Anhydrous Ammonia Parts Per Million	Total Pounds Chlorine Used During	Chlorine Parts Per Million	Total Pounds Polyphos- phate Used During	Polyphos- phate Parts Per Million	NTU Turbidity of Clarifer Effluent	PPM Clear Well Alkalinity of Filter Effluent	High Lift	: Pumpage
		During Month	24 Hours	Month		Month		Month				Month		Month		Month			Lindia	Total M.G.D.	M.G.D.
-	Max.	207.20	12.00	11 205	4.60	1.170	0.65	14.050	7.33		49.88	2.126	0.95	12.200	5.33	1 (00	0.89	5.0	101	261.15	9.20
January	Min. Avg.	287.29	9.00 9.27	11.287	4.53 4.56	1,370	0.51 0.56	14,850	5.86 6.23	98.095	19.41 39.80	2,136	0.80 0.86	12,200	4.34 4.94	1,600	0.50	0.2 1.4	64.	251.17	7.69 8.10
	Max.		14.00		4.59		0.50		6.71		55.00		0.80		5.25		0.05	3.4			11.48
February	Min.	270.85	9.00	10,311		1,212	0.45	13,640			30.28	1,878	0.79	10,377	4.33	1,590		0.1	51	242.73	
-	Avg.		9.67		4.57		0.54		6.01		45.12		0.83		4.58		0.71	0.8	65		8.67
	Max.		12.00		4.81		0.58		6.88		54.96		0.93		5.82		1.09	2.4	83		9.57
March	Min.	301.90	9.00	11.517		1,336	0.49	15,290			31.67	2,250	0.84	13.031	4.97	1.950		0.1	36	263.25	6.81
	Avg.		9.74		4.58		0.53		6.32		42.67		0.89		5.18		0.77	0.8	55		8.49
A	Max.	286.39	12.00	10.070	4.57	1.308	0.62	18.370	9.84		63.62	2,484	1.27	12.695	5.57	1 724	0.89	2.4		255.73	11.00
April	Min. Avg.	280.39	9.00 9.55	10,878	4.42 4.56	1,508	0.53 0.55	18,370	5.63 7.73		39.97 48.87	2,484	0.89 1.04	12,095	4.21 5.32	1,734	0.55	0.1 0.9	47 60	200.13	7.70 8.52
	Max.		12.00		4.50		0.33		8.01		62.57		1.04		5.90		0.73	6.8	72		9.00
May	Min.	306.55	9.00	11.670	4.53	1.648	0.60	17.930		159.279	39.97	3,349	1.21	14.297	5.31	1.932		0.3		242.86	6.78
,	Ave.		9.89		4.57	-,	0.65		7.04	1	50.83		1.27		5.59		0.76	1.7	62		7.83
	Max.		12.00		5.09		0.80		7.33		77.11		1.45		6.51		1.03	5.6			9.87
June	Min.	305.53	9.00	11.616	4.53	1,824	0.54	16,830	5.70	129.912	38.16	3,472	1.26	15,610	5.68	1,874	0.50	0.4	36	229.92	5.83
	Avg.		10.18		4.58		0.72		6.67		51.05		1.28		6.13		0.74	1.3	76		7.66
	Max.		12.67		4.58		0.78		7.69		64.99		1.43		6.45		0.90	7.2	92		11.77
July	Min.	337.47	8.67	12.776		2,036	0.64	19,085			41.01	3,815	1.31	17.308	5.95	1.916		0.5	52	296.33	8.73
	Avg.		10.89		4.54		0.72		6.99		53.43		1.36		6.14		0.68	1.7	71		9.56
A	Max.	345.66	13.50	13.092	4.59	2.086	0.77	18.810	7.43	176 160	75.06	2 740	1.51	17 100	6.96	2.069	0.91	32.0	75 56	306.32	10.53
August	Min. Avg.	345.00	8.00 11.15	15,092	4.50 4.54	2.080	0.65 0.72	18.810	5.69 6.50	176.159	49.49 61.03	3,749	1.10 1.30	17,102	4.97 5.94	2,009	0.57	0.5 0.8	66	500.52	8.83 9.88
	Avg. Max.		11.15		4.54		0.72		7.03		75.06		1.30		5.94		1.07	30.0	97		9.88
September	Min.	336.65	8.50	12.769		1.980	0.59	18.150		186.592	48.91	3,381	1.03	15.554	5.24	2.067		1.1	58	302.14	9.18
	Avg.		11.22		4.55	1,000	0.71	,	6.48		66.40		1.20		5.54	2.000	0.75	3.4	71		10.07
	Max.		12.00		4.91		0.76		7.92		76.53		1.33		6.18		0.95	6.0	100		10.91
October	Min.	338.16	8.00	12,867	4.52	1,980	0.63	18,920	6.09	174.531	36.57	3,478	1.04	15,993	4.79	1,933		0.5	62	319.57	9.74
	Avg.		10.91		4.56		0.70		6.71		61.70		1.23		5.66		0.69	2.8	78		10.31
	Max.		16.00		4.58		0.69		7.03		65.02		1.13		6.17		1.07	6.8	102		13.65
November	Min.	353.77	9.38	13.414		1,736	0.45	19,360			37.95	2,958	0.90	15.558	4.51	2.067		0.3	75	319.30	
	Avg.		11.79		4.55		0.59		6.55		50.00		1.00		5.26		0.70	1.7	89		10.64
December	Max. Min.	364.49	15.00 10.00	13.783	4.79 4.36	1.523	0.57 0.42	20,240	7.15 5.95		77.69 28.76	2,869	1.06 0.85	14.815	5.82 4.19	2.200	1.07	4.8 0.4	113 70	326.02	11.85 9.33
December	Avg.	504.49	10.00		4.50	1.525	0.42	20,240	5.95		28.76 47.59	2,809	0.85	14.015	4.19	2,200	0.54	0.4	88	520.02	9.55
	Total	3.834.71	11.70	145,980	7.24	20,039	0.91	211,475		1,693,821	47.39	35,819	0.95	174,540	4.70	22,932	0.75	1	00	3.355.34	10.24
	Max.	364.49	16.00	143,980	5.09	20,039	0.80	20,240	9.84		77.69	3,819	1.51	174,340	6.96	22,932	1.09	32.0	113	3.333.34	13.65
Annual	Min.	270.85	8.00	10.311	4.36	1,212	0.42	13,640	5.37	98.095	19.41	1,878	0.79	10,377	4.19	1,590		0.1	36	229.92	5.83
	Avg.	319.56	10.51	12.165	4.56	1.670	0.63	17,623			52.96	2,985	1.12	14,545	5.46	1.911	0.72	1.8	72	279.61	9.19

TABLE VI-A

MONTHLY SUMMARY OF CARROLLTON WATER PURIFICATION PLANT FILTER OPERATIONS FOR THE YEAR ENDING: December 2019

1	2	3			4	5		(5	7		8			9	1	0	1	1
Month		Total Million (Filtered Dur			umber of uns	Length of Hou		Million Gall Filtered	ons of Water Per Run	Million G Day Pe		Total Amour Gallons of V Us	Vash Water	Wash Wate	Gallons of er Used Per un	Percentag Water Use		Million Gallo Acre P	ns Filtered Per er Day
		Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New
January	Max. Min. Avg.	1.409.230	2.574.485	78	62	268 67 150	259 127 177	40.595 0.730 18.067	6.995 2.616 41.524	2.891	5.630	23.600	37.200	0.307	0.600	15.15 0.68 1.57	2.29 0.86 1.44	87.994	93.424
February	Max. Min. Avg.	1,398.765	2,594.431	59	68	361 48 181	267 137 164	39.420 2.360 23.704	70.518 24.292 39.310	3.143	5.753	17.700	40.200	0.300	0.591	12.71 0.76 1.27	2.43 1.19 1.50	95.675	95.465
March	Max. Min. Avg.	1,538.923	2,880.090	80	70	315 20 136	196 138 161	54.690 0.920 19.237	56.842 29.996 62.004	3.445	9.243	25.900	11.286	0.324	0.531	33.04 0.59 1.43	1.77 0.92 0.86	104.879	153.378
April	Max. Min Avg	1,701.226	2,590.199	77	56	427 48 157	422 16 203	65.830 0.150 21.661	97.166 0.312 46.254	3.302	5.468	22.800	33.600	0.300	0.600	19.48 0.45 1.37	1.93 0.62 1.30	102.775	90.736
May	Max. Min Avg	1,558.233	2,382.087	76	60	359 29 <u>160</u>	263 138 <u>191</u>	61.300 0.198 21.033	59.416 25.344 <u>39.701</u>	3.154	4.996	23.100	36.000	0.304	0.600	15.56 0.50 1.47	2.36 1.00 1.51	108.682	82.913
June	Max. Min. Avg.	1,775.573	2,308.391	78	78	287 42 240	195 93 154	46.896 0.340 23.362	42.430 20.425 29.595	2.185	4.612	32.500	45.600	0.427	0.585	16.21 0.86 1.85	2.86 1.38 1.98	69.379	76.532
July	Max. Min Avg	1,884.473	2,129.374	86	66	214 63 130	226 145 173	39.980 0.346 21.147	49.515 7.987 <u>33.63</u> 7	3.904	4.666	24.600	41.400	0.286	0.591	8.27 0.73 1.35	7.48 1.19 5.91	118.840	77.428
August	Max. Min. Avg.	1,822.172	2,285.058	74	77	259 120 177	195 58 153	41.880 0.248 23.665	44.332 12.071 32.467	3.209	5.092	25.500	52.200	0.331	0.200	11.65 0.77 1.43	5.40 1.47 2.00	97.676	84.496
September	Max. Min. Avg.	1,724.272	2,490.819	72	74	335 118 180	192 66 161	49.220 0.248 22.743	42.167 8.112 33.660	3.032	5.018	24.320	53.000	0.337	0.213	9.76 0.61 1.36	8.83 1.70 2,13	92.306	83.269
October	Max. Min. Avg.	1,702.580	2,158.288	77	76	215 143 131	185 91 147	37.020 0.348 24.120	42.624 11.300 28.399	4.419	4.634	28.206	48.600	0.352	0.225	11.83 0.95 1.55	5.66 1.50 <u>2.25</u>	134.512	76.897
November	Max. Min. Avg.	1.873.075	2.540.966	83	78	215 119 139	233 119 151	41.880 0.298 21.569	46.425 23.220 32.576	3.896	5.176	27.094	48.000	0.330	0.189	11.08 0.79 1.43	2.65 1.33 1.89	118.609	85.890
December	Max. Min. Avg.	1.742.556	2,502.033	83	76	224 143 165	184 118 155	41.880 0.338 22.184	42.167 21.821 32.921	3.053	5.106	26.275	44.400	0.317	0.177	9.37 0.75 1.49	2.68 1.39 <u>1.77</u>	92.930	84.732
Annual	Total Max.	20,131.078 1,884.473 1,398.765	29,436.221 2,880.090 2,129.374	923 86 59	841 78 56	427 20	422 16	65.830 0.150	97.166 0.312	4.419 2.185	9.243 4.612	301.595 32.500 17.700	491.486 53.000 11.286	0.427	0.600	33.04 0.45	8.83 0.62		1,085.160 153.378 76.532
2 13 11 11 + C(1	Min. Avg.	1,398.765	2,129.374	59 77	56 70		16 166	0.150 21.874	0.312 37.671	2.185	4.612 5.450	1 1	40.957	0.286	0.177	0.45	2.05		76.532 90.430

TABLE VI-B

MONTHLY SUMMARY OF ALGIERS FILTER OPERATIONS FOR THE YEAR ENDING: December 31, 2019

1	2	3	4	5	6	7	8	9	10
Month		Total Million Gallons Water Filtered During Month of Runs	Total Number of Runs	Length of Runs in Hours	Million Gallons of Water Filtered Per Run	Million Gallons Per Day Per Filter	Total Amount in Million Gallons of Wash Water Used	Million Gallons of Wash Water Used Per Run	Percentage of Wash Water Used Per Run
January	Max. Min. Avg.	291.77	57	191 143 167	10.549 1.991 5.119	0.74	6.25	0.110	5.50 1.04 2.14
February	Max. Min. Avg.	242.44	48	167 167 167	10.218 2.020 5.050	0.73	4.63	0.103	5.10
March	Max. Min. Avg.	246.09	48	191 143 167	10.046 1.742 5.127	0.74	4.87	0.101	5.82 [.] 1.01 1.98
April	Max. Min. Avg.	259.80	54	191 167 168	11.790 1.884 4.811	0.69	6.35	0.118	6.24 1.00 2.44
May	Max. Min. Avg.	290.05	57	167 47 159	10.291 0.735 5.089	0.77	6.12	0.107	2.11
June	Max. Min. Avg.	260.66	48	191 167 169	9.441 1.023 5.430	0.77	5.04	0.105	1.93
July	Max. Min. Avg.	331.28	57	167 143 166	9.260 1.868 5.812	0.84	7.61	0.134	2.30
August	Max. Min. Avg.	294.00	51	167 167 167	9.171 1.965 5.765	0.83	6.93	0.136	6.91 1.48 2.36
September	Max. Min. Avg.	328.42	51	167 143 165	9.056 1.878 6.082	0.88	6.61	0.130	6.90 1.43 2.01
October	Max. Min. Avg.	324.98	57	167 23 159	9.154 0.659 5.701	0.86	7.15	0.125	2.20
November	Max. Min. Avg.	308.14	48	167 167 167	9.031 1.910 6.420	0.92	5.16	0.107	1.67
December	Max. Min. Avg.	355.54	54	167 167 167	9.653 1.623 6.584	0.95	6.45	0.120	1.81
Annual	Total Max. Min. Avg.	3533.16 355.54 242.44 294.43	630.00 57 48 52.50	5732.00 191.00 23.00 165.67	203.95 11.79 0.66 5.58	0.69	73.17 7.61 4.63 6.10	1.40 0.136 0.101 0.12	19.04 1.00

December 31, 2019

TABLE VII

FIVE YEAR ANALYSIS COMPOSITE DATA (2015 - 2019) FOR NEW ORLEANS DRINKING WATER PURIFICATION SYSTEM

	MIS	SISSIPPI RIV	/ER	FIN	ISHED WAT	ER
PARAMETER	(Bei	ore Purificati	on)	(Af	ter Purificatio	n)
	MAX	MIN	AVG	MAX	MIN	AVG
Total Alkalininty (ppm as CaCO3)	201	65	121	210	80	134
Total Hardness (ppm as CaCO3)	272	100	161	300	116	183
Noncarbonate Hardness (ppm as CaCO ₃)	90	12	40	104	14	48
Calcium Hardness (ppm as CaCO3)	167	40	103	200	88	126
Magnesium Hardness (ppm as CaCO3)	118	22	52	151	14	57
Nephelometric Turbidity (NTU)	345	6.2	67	0.28	0.02	0.11
pH	8.22	6.88	7.69	9.41	7.76	8.89
Chloride (ppm)	50	14	28	58	19	31
Fluoride (ppm)	0.34	0.11	0.20	0.95	0.26	0.71
Total Dissolved Solids (ppm)	330	143	254	374	192	273
Total Suspended Solids (ppm)	199	19	65			
Free Chlorine Residual (ppm as Cl ₂)				0.6	0.0	0.1
Total Chlorine Residual (ppm as Ch)				5.0	0.5	3.3
Ammonia (ppm as N)				0.41	0.02	0.15
Nitrate + Nitrite (ppm as N) *				2.3	1.0	1.6
Sulfate (ppm) *				48.0	34.6	41.3
Conductivity (µS/cm)	685	238	444	700	244	494
Temperature (°F)	88	39	66	91	52	74
Aluminum (ppm) *				0.01	0.00	0.01
Antimony (ppm) *				0.000	0.000	0.000
Arsenic (ppm) *				0.001	0.000	0.000
Barium (ppm) *				0.059	0.036	0.045
Beryllium (ppm) *				0.000	0.000	0.000
Cadmium (ppm) *				0.000	0.000	0.000
Chromium (ppm) *				0.000	0.000	0.000
Copper (ppm) *				0.2	0.0	0.0
Iron (ppm) *				0.00	0.00	0.00
Lead (ppm) *				0.026	0.000	0,004
Manganese (ppm) *				0.00	0.00	0.00
Mercury (ppm) *				0.000	0.000	0.000
Nickel (ppm) *				0.0	0.0	0.0
Selenium (ppm) *				0.001	0.000	0.000
Silver (ppm) *				0.00	0.00	0.00
Thallium (ppm) *				0.000	0.000	0.000
Zine (ppm) *				0.00	0.00	0.00
Potassium (ppm) *				4.0	2.6	3.1
Sodium (ppm) *				34.0	17.5	23.7
Cyanide (ppm) *				0.00	0.00	0.00
Haloacetic Acids (HAA5) (ppb) *				59.0	5.4	23.5
Total Organic Carbon (ppm) *	4.9	2.8	3.7	4.2	1.7	2.8
Total Trihalomethanes (ppb)	2.0	0.0	0.0	56.9	6.4	23.1
1,2-Dichloroethane (ppb)	0.0	0.0	0.0	0.0	0.0	0.0
Chloroform (ppb)	2.0	0.0	0.0	43.4	5.0	15.9
Carbon Tetrachloride (ppb)	0.0	0.0	0.0	4.0	0.0	0.0
Bromodichloromethane (ppb)	0.0	0.0	0.0	19.1	0.4	5.9
Tetrachloroethene (ppb)	0.0	0.0	0.0	0.0	0.0	0.0
BTX (Benzene, Toluene & Xylenes) (ppb)	7.4	0.0	0.0	1.1	0.0	0.0
Total Coliforms (CFUs/100 ml)	6800	28	610	200	0	0
E. coli (CFUs/100 ml)				0	0	0

The results for constituents indicated with asterisks are from the Louisiana Department of Health or an LDH certified contract laboratory.

All other results are from testing by the S&WB Water Quality Laboratory. Lead and Copper results are from 2016 and 2019 Lead and Copper Rule compliance testing.

Concerning the chemical results, the S&WB Laboratory does not meet the higher criteria required by DHH to be classified as a "DHH-OPH Certified Chemical Laboratory/Drinking Water," therefore, any results reported by this laboratory for chemical drinking water parameters which are required to be analyzed in a certified laboratory are officially deemed invalid.

The S&WB Laboratory is certified by DHH for Total Coliform and E. coli testing.

December 31, 2019

TABLE VIII

2019 CARROLLTON OPERATION

CHEMICAL	CHEMICAL COST	CHEMICAL COST PER MILLION GALLONS
Lime	\$813,858.20	\$16.15
Ferric Coagulant	\$1,379,985.40	\$27.39
Chlorine & Sodium Hypochlorite	\$1,500,166.21	\$29.78
Sodium Polyphosphate	\$300,515.08	\$5.96
Polyelectrolyte	\$700,551.99	\$13.91
Fluoride	\$176,127.03	\$3.50
Ammonia	\$299,714.18	\$5.95
Carbon	\$0.00	\$0.00
TOTAL CHEMICALS	\$5,170,918.08	\$102.64

TOTAL COST PER MILLION GALLONS

YEAR	TOTAL WATER TREATED IN MILLION GALLONS	OPERATING COST	TOTAL COST PER MILLION GALLONS
2019	50,381.19	\$10,328,116	\$205.00
2018	51,211.51	\$9,850,754	\$192.35
2017	50,714.68	\$8,208,239	\$161.85
2016	48,042.56	\$7,974,759	\$165.99
2015	47,616.37	\$8,238,282	\$173.01

December 31, 2019

TABLE IX

ALGIERS OPERATION

CHEMICAL	CHEMICAL COST	CHEMICAL COST PER MILLION GALLONS
Lime	\$177,207.55	\$46.21
Ferric Coagulant	\$156,491.50	\$40.81
Sodium Hypochlorite	\$96,764.98	\$25.23
Sodium Polyphosphate	\$34,398.00	\$8.97
Polyelectrolyte	\$64,504.75	\$16.82
Fluoride (100%)	\$18,332.38	\$4.78
Ammonia	\$25,431.49	\$6.63
Carbon	\$0.00	\$0.00
TOTAL CHEMICALS	\$573,130.65	\$149.46

Purification Plant Operating Cost:STotal Water Treated in 2019:

2,221,586.89 3,834,710,000 Gallons

TOTAL COST PER MILLION GALLONS

YEAR	TOTAL WATER TREATED IN MILLION GALLONS	OPERATING COST			
2019	3,834.71	\$2,221,586.89	\$579.34		
2018	3,762.72	\$2,209,590.79	\$587.23		
2017	3,756.67	\$1,646,337.91	\$438.24		
2016	3,684.57	\$1,952,339.00	\$529.87		
2015	3,807.99	\$1,835,436.00	\$482.00		

December 31, 2019

TABLE X

SLUDGE REMOVED FROM THE "G" BASINS PRIMARY TREATMENT UNITS DORR MONORAKE CONVENTIONAL SYSTEM

2019

Total Million Gallons Water Treated	29,020.09
Total Tons Dry Sludge Deposited in Basins Including Suspended and Dissolved Solids	
Removed and Reacting Chemicals	10,017
Total Million Gallons Wet Sludge Withdrawn from Basins	730.57
Average Percent solids in Wet Sludge	0.33
Total Million Gallons Water Used in Withdrawing Sludge	729.57
Percent of Total Water Treated Used in Withdrawing Wet Sludge	2.52

TABLE X-A

SLUDGE REMOVED FROM THE "L" BASINS PRIMARY TREATMENT UNITS DORR MONORAKE CONVENTIONAL SYSTEM

2019

Total Million Gallons Water Treated	21,361.10
Total Tons Dry Sludge Deposited in Basins Including Suspended and Dissolved Solids	
Removed and Reacting Chemicals	8,594
Total Million Gallons Wet Sludge Withdrawn from Basins	278.79
Average Percent solids in Wet Sludge	0.73
Total Million Gallons Water Used in Withdrawing Sludge	277.93
Percent of Total Water Treated Used in Withdrawing Wet Sludge	1.31

December 31, 2019

		SISSIPPI RIV		FINISHED WATER (After Purification)			
PARAMETER		ore Purificati	<i>,</i>	<u> </u>	/		
	MAX	MIN	AVG	MAX	MIN	AVG	
Total Alkalininty (ppm as CaCO ₃)	147	81	118	163	100	135	
Total Hardness (ppm as CaCO3)	198	100	155	220	142	182	
Noncarbonate Hardness (ppm as CaCO ₃)	72	15	37	86	27	47	
Calcium Hardness (ppm as CaCO ₃)	132	70	100	157	97	127	
Magnesium Hardness (ppm as CaCO3)	100	25	25	86	26	56	
Nephelometric Turbidity (NTU)	174	12	55	0.20	0.04	0.11	
pH	8.20	6.88	7.62	9.41	8.21	8.88	
Chloride (ppm)	33	16	24	39	20	28	
Fluoride (ppm)	0.34	0.11	0.18	0.95	0.49	0.68	
Free Chlorine Residual (ppm as Cl ₂)				0.5	0.1	0.1	
Total Chlorine Residual (ppm as Cl ₂)				4.7	0.7	3.3	
Ammonia (ppm as N)				0.33	0.05	0.15	
Nitrate + Nitrite (ppm as N) *				1.3	1.0	1.2	
Conductivity (µS/cm)	615	302	457	666	331	504	
Temperature (°F)	86	44	65	85	59	73	
Aluminum (ppm) *				0.014	0.009	0.011	
Antimony (ppm) *				0.000	0.000	0.000	
Arsenic (ppm) *				0.001	0.000	0.000	
Barium (ppm) *				0.059	0.036	0.044	
Beryllium (ppm) *				0.000	0.000	0.000	
Cadmium (ppm) *				0.000	0.000	0.000	
Chromium (ppm) *				0.000	0.000	0.000	
Copper (ppm) *				0.2	0.0	0.0	
Iron (ppm) *				0.00	0.00	0.00	
Lead (ppm) *				0.026	0.000	0.004	
Manganese (ppm) *				0.00	0.00	0.00	
Mercury (ppm) *				0.000	0.000	0.000	
Nickel (ppm) *				0.002	0.000	0.001	
Potassium (ppm) *				4.0	2.6	3.1	
Selenium (ppm) *				0.000	0.000	0,000	
Silver (ppm) *				0.00	0.00	0.00	
Thallium (ppm) *				0.000	0.000	0.000	
Zinc (ppm) *				0.00	0.00	0.00	
Sodium (ppm) *				31.0	18.3	22.6	
Cyanide (ppm) *				0.00	0.00	0.00	
Haloacetic Acids (HAA5) (ppb) *				59.0	11.9	27.5	
Total Organic Carbon (ppm) *	4.1	2.8	3.5	4.2	1.7	2.8	
Total Trihalomethanes (ppb)	2.0	0.0	0.0	56.9	6.4	23.0	
1,2-Dichloroethane (ppb)	0.0	0.0	0.0	0.0	0.0	0.0	
Chloroform (ppb)	2.0	0.0	0.0	43.4	5.0	17.3	

TABLE XI 2019 ANALYSIS DATA FOR NEW ORLEANS CARROLLTON DRINKING WATER PURIFICATION SYSTEM

The results for constituents indicated with asterisks are from the Louisiana Department of Health or

an LDH certified contract laboratory.

BTX (Benzene, Toluene & Xylenes) (ppb)

Carbon Tetrachloride (ppb)

Tetrachloroethene (ppb)

E. coli (CFUs/100 ml)

Bromodichloromethane (ppb)

Total Coliforms (CFUs/100 ml)

All other results are from testing by the S&WB Water Quality Laboratory.

Lead and Copper results are from 2019 Lead and Copper Rule compliance testing.

Concerning the chemical results, the S&WB Laboratory does not meet the higher criteria required by DHH to be classified as a "DHH-OPH Certified Chemical Laboratory/Drinking Water;" therefore, any results reported by this laboratory for chemical drinking water parameters which are required to be analyzed in a certified laboratory are officially deemed invalid.

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The S&WB Laboratory is certified by DHH for Total Coliform and E. coli testing.

December 31, 2019

TABLE XII

EXTRACTS FROM TABLES IV-E AND V

20 Year Period, 2000 to 2019 Inclusive Maximum, Minimum, and Average Amount of Water Treated Per Day (M.G. per 24 Hours)

YEAR		CARROLLTON			ALGIERS	
IEAK	MAX.	MIN.	AVG.	MAX.	MIN.	AVG.
2000	152.50	126.71	128.10	18.83	7.58	12.13
2001	153.93	107.75	126.70	15.76	6.00	10.90
2002	128.67	87.00	106.63	14.00	6.66	9.80
2003	144.26	90.75	115.35	13.16	8.00	10.06
2004	145.83	102.92	122.57	13.16	8.00	10.15
2005	144.00	0.00	115.47	22.67	7.00	10.20
2006	165.63	115.33	139.73	18.34	8.00	11.67
2007	144.75	124.00	134.06	16.00	10.00	12.13
2008	143.50	114.08	133.88	13.58	6.92	10.38
2009	147.92	129.83	138.17	14.00	8.00	10.78
2010	156.50	125.33	137.10	15.67	8.00	11.25
2011	150.83	127.17	139.37	16.83	10.00	11.73
2012	163.29	117.96	137.65	15.50	10.00	11.58
2013	141.83	120.00	131.08	15.25	10.00	11.27
2014	157.30	122.08	132.57	15.58	9.00	10.43
2015	144.71	118.33	130.47	13.92	8.83	10.09
2016	213.83	120.46	131.62	17.25	8.00	9.66
2017	149.19	125.13	138.94	14.00	8.00	10.29
2018	168.70	118.21	138.62	13.53	7.41	9.37
2019	162.83	97.08	136.95	13.65	5.83	9.19

December 31, 2019

TABLE XIII

Monthly Temperature (Degrees Farenheit) of the Mississippi River Water at the Carrollton Plant

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
January	41	43	48	47	42	43	47	47	41	46
February	41	43	48	47	40	45	46	49	45	45
March	48	51	57	49	46	45	54	55	55	50
April	62	61	69	57	59	61	62	63	58	59
May	71	68	74	66	69	70	70	69	71	69
June	81	80	81	76	79	79	79	77	82	78
July	85	84	85	81	83	84	86	83	86	82
August	86	87	87	83	84	85	85	85	86	85
September	83	80	82	83	83	83	84	80	83	84
October	72	72	72	76	72	74	75	77	73	75
November	61	62	60	62	59	65	66	61	56	54
December	50	50	55	48	49	54	53	52	47	48
Maximum	89	90	89	86	86	87	87	87	88	86
Minimum	37	40	46	45	37	39	42	44	40	44
Average	65	65	68	65	64	66	67	67	65	65
				Ten Yea Maximum: Minimum: Average:	<u>r Period</u> 90 37 66					

December 31, 2019

TABLE XIV

Monthly Temperature (Degrees Farenheit) of the Tap Water at the Carrollton Plant

	2015	2016	2017	2018	2019
January	62	57	64	59	65
February	62	59	64	62	68
March	66	66	67	69	69
April	73	72	72	71	72
May	76	77	76	78	75
June	80	83	80	83	76
July	83	88	82	86	80
August	82	87	84	85	82
September	80	86	83	83	80
October	76	81	81	79	77
November	70	74	72	69	69
December	64	66	65	65	66
Maxiumum	86	91	88	89	85
Minimum	55	52	59	53	59
Average	73	75	74	74	73
		Five Yea Maximum: Minimum: Average:	<u>ar Period</u> 91 44 74		

December 31, 2019

New Orleans East Bank Sewerage Treatment Plant 2019 Yearly Summary

[Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019
Plant EF Flow (MGD)													
Average	100.919	112.3	94.3	109.483	109.839	85.99	115.584	99.345	70.957	96.652	107.6	88.187	99
Maximum	187.3	174.9	154.1	203.2	181.4	140.1	179.5	173.4	23.6	166.4	183.4	159	203
INFLUENT BOD (mg/L)													
Average	106.2	138	111.5	103.3	81.9	74.4	55.1	66.6	87.4	74.9	84.8	88.6	89
Maximum	175	200	186	148	183	129	98	121	160	105	105	134	200
Waxinum	175	200	180	140	165	129	70	121	100	105	105	154	200
INFLUENT TSS (mg/L)													
Average	161.4	225	154.1	169.3	130.5	112.6	97.8	103.8	96.4	101.2	94.5	99.4	129
Maximum	382	384	292	406	272	234	193	174	155	129	131	163	406
				1					100.400 1				
INFLUENT BOD (lbs/day)													
Average	89,942	121,511	89,900	89,710	68,546	48,478	48,335	57,197	61,949	56,932	63,043	63,154	71,558
Maximum	204,622	196,032	176,955	221,224	135,681	91,093	101,786	92,336	105,684	82,952	81,875	95,806	221,224
	8												
INFLUENT TSS (lbs/day)	140000000447848		Charles and the second	17 Nov - 50724	101110120102	15750704-819474	1000000000000	11000 C - 2223 M		5453463 (A.S.44)	Sector Streets		10102-004020
Average	170,242	202,380	178,529	175,929	126,315	75,359	88,167	90,957	137,153	90,198	101,455	110,248	128,911
Maximum	380,012	411,849	318,281	632,512	204,378	170,382	222,078	150,812	854,969	183,040	262,165	209,249	854,969
EFFLUENT BOD (mg/L)													
Average	21.9	23.2	20.5	22	18.7	20.7	22.3	19.9	19.3	20.4	26.1	23	21.5
Weekly Maximum	31	32	36	31	38	36	39	24	32	26	35	40	40.0
EFFLUENT TSS (mg/L)	10.6	18.4	16.0	14.9	12.2	15	02.7	22.6	17	161	17.5	15.6	17.3
Average Weekly Maximum	18.6 46	40	15.8 29	39	23	28	23.7 51	22.6 31	23	16.1 28	25	15.6 23	51.0
	40	40	29	39	23	20	51	51	25	20	25	25	51.0
EFFLUENT BOD (lbs/day)													
Average	18,555	21,752	16,042	19,972	16,226	14,699	21,288	16,221	11,219	16,430	23,146	16,815	17,697
Weekly Maximum	39,052	39,098	28,600	48,539	3,112	26,281	40,487	26,031	18,760	29,724	34,202	27,847	48,539
rectuly statistical	57,052	57,070	20,000	10,000	3,112	20,201	10,101	20,031	10,700	22,721	31,202	27,017	10,007
EFFLUENT TSS (lbs/day)													
Average	16,184	17,884	12,687	14,838	11,127	10,770	24,030	18,769	9,979	13,504	15,474	11,510	14,730
Weekly Maximum	57,776	51,053	26,464	63,100	28,602	22,200	58,995	34,882	18,760	35,930	26,002	25,521	63,100
				9									
EFFLUENT CL2 (mg/L)													
Average	0.5	0.5	0.5	0.49	0.49	0.46	0.43	0.44	0.32	0.33	0.32	0.36	0.43
Maximum	0.5	0.5	0.5	0.5	0.5	0.5	0.54	0.5	0.59	0.53	0.47	0.5	0.59
			·					1			1	1	
EFFLUENT COLIFORM (col/100-ml)		100					1.22			1212	100		
Average (Geo)	2.49	2.24	2.17	2.40	3.29	3.97	4.84	17.06	12.36	7.54	4.94	3.35	5.55
Weekly Maximum (Geo)	4.18	2.53	2.56	2.73	5.95	7.51	14.49	38.33	39.46	14.79	6.38	6.44	39.46
FFELUENT pH (cm)													
EFFLUENT pH (su) Minimum	6.8	6.75	6.82	6.85	6.75	6.74	6.75	6.80	6.95	6.93	6.98	6.98	6.74
Maximum	6.96	6.97	6.92	6.91	6.89	6.84	7.04	7.06	7.08	7.19	7.11	7.08	7.19
iver annuali	0.20	0.27	0.92	0.71	0.02	0.04	7.04	7.00	7.00	1.12	7.11	7.00	1.17
DISPOSED SLUDGE (dry tons)													
Average per day	24.04	24.71	27.95	28.30	26.91	26.19	26.00	25.50	25.18	23	23	22	25.25
Total	745.37	642.38	866.45	848.87	834.31	785.64	701.93	688.51	755.30	658.60	702.21	686.54	8,916
													110
ELECTRICITY (kwhr)													
Average per day	69,495	75,807	70,175	73,547	74,335	66,267	60,606	73,794	66,547	70,723	60,107	66,173	68,965
Total (kwhr)	2,223,832	2,046,800	2,245,600	2,206,400	2,304,400	1,988,000	1,878,800	2,287,600	1,996,400	2,192,400	1,803,200	1,985,203	25,158,635
anna an tha ann ann ann an tha an taon											Contraction of		
RAINFALL (inches) East Bank													
TOTAL	3.58	6.17	2.69	8.58	6.66	2.7	10.42	4.49	1.45	3.26	0.29	1.19	51.48

Percipitation (inch)

Southern Regional Climate Center-Monthly

December 31,2019

New Orleans West Bank Sewerage Treatment Plant

2019 Yearly Summary

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019
Plant Ef Flow (MGD) Average Maximum	10.7 22.9	10.126 18.820	8.426 15.900	10.637 23.49	12.98 34.63	9.836 19.4	14.913 30.2	15.953 27.760	9.619 25.20	10.61 28.19	10.018 26.00	9.71 19.62	11.13 34.63
Plant INF Flow (MGD) Average Maximum	11.77 23.2	13.080 25.220	10.333 16.900	12.079 30.31	12.955 36.08	8.992 14.4	13.75 27.4	15.420 28.460	7.891 10.16	12.754 25.7	11.245 15.00	13.23 25.40	11.96 36.08
INFLUENT BOD (mg/L) Average Maximum	85.8 179	101.9 190	95.5 151	105.9 265	86.9 169	108 205	92.7 169	76.2 119	87.8 153	75.1 106	79.9 114	81.9 113	89.80 265
INFLUENT TSS (mg/L) Average Maximum	132.9 292	148.5 318	127.5 182	128.4 472	101.5 165	122.9 200	101.5 189	86 146	94.6 151	89.1 126	76.6 97	83.3 141	107.73 472
INFLUENT BOD (lbs/day) Average Maximum	8,635 34,634	11,709 27,097	7,916 13,366	10,407 41,863	9,035 24,674	8,087 14,417	10,489 26,301	10,243 18,020	5,834 10,846	7,765 19,642	7,273 10,183	8,597 23,278	8,832 41,863
INFLUENT TSS (lbs/day) Average Maximum	13,170 56,499	17,120 45,351	10,659 16,443	12,848 49,950	10,614 28,586	9,208 20,011	12,260 34,047	11,499 17,219	6,251 11,609	9,355 25,437	6,995 9,373	8,628 29,046	10,717 56,499
EFFLUENT BOD (mg/L) Average Weekly Maximum	10.2 16	14.2 19	16.9 24	13.7 32	8.1 15	6.2 8	6.6 11	7.8 13	5.3 7	6.6 8	8.3 14	10.2 13	9.51 32
EFFLUENT TSS (mg/L) Average Weekly Maximum	17 32	20.2 30	17.3 22	17.5 35	15.5 39	11.2 20	11.9 23	11.8 22	7.2 10	8.8 13	9.9 15	11.8 16	13.34 39
EFFLUENT BOD (lbs/day) Average Weekly Maximum	899 3,056	1,256 2,825	1,158 2,122	1,237 5,935	904 3,466	520 1,133	854 2,294	1,091 2,084	595 1,471	568 1,735	637 1,039	805 1,241	877.01 5,935
EFFLUENT TSS (lbs/day) Average Weekly Maximum	1,562 5,730	1,847 4,552	1,231 2,652	1,572 6,492	1,906 11,264	957 2,589	1,684 5,275	1,778 5,093	426 1,051	793 2,819	767 1,126	937 1,481	1,288.43 11,264
EFFLUENT CL2 (mg/L) Average Maximum	1.24 1.4	1.23 1.4	1.23 1.5	1.14 1.4	1.15 1.4	1.21 1.4	1.01 1.4	1.08 1.4	1.12 1.45	0.84 1.29	0.82 1.2	0.79 1.6	1.07 1.60
EFFLUENT COLIFORM (col/100-ml) Average (Geo) Weekly Maximum (Geo)	2.9 5.18	2.38 3.87	2.56 3.74	3.26 8.45	3.11 4.86	2.43 2.83	8.5 17.6	4.55 12.56	2.38 5.04	2.38 3.03	3.14 8.09	2.72 3.06	3.36 17.60
EFFLUENT pH (su) Minimum Maximum	7.69 7.95	7.47 7.68	7.33 7.91	7.25 7.46	7.18 7.52	7.04 7.21	7.49 8.16	7.89 8.4	7.76 8.72	7.53 8.19	7.78 8.06	7.65 7.99	7.04 8.72
DISPOSED SLUDGE (dry tons) Average per day Total	7.12 163.81	2.51 57.68	6.39 166.14	4.28 72.69	2.46 61.61	5.55 149.79	6.44 122.32	6.27 125.41	6.91 117.47	5.37 112.74	4.15 74.64	3.43 85.65	5 1,310
ELECTRICITY (kwhr) Average per day Total (kwhr)	10,339 289,500	9,807 294,197	8,873 266,185	9,641 327,793	9,619 288,565	11,103 299,770	11,116 344,606	10,062 311,922	16,524 495,710	16,622 515,293	10,426 312,771	10,485 325,038	11,218 4,071,350
RAINFALL (inches) West Bank TOTAL	3.08	3.97	1.14	6.84	7.39	3.84	9.30	6.00	0.35	7.30	1.30	1.79	52.30

SEWERAGE AND WATER BOARD OF NEW ORLEANS ANNUAL REPORT 2019 - FOR THE CALENDAR YEAR ENDING DECEMBER 31, 2019 SEWER TABULATION NUMBER 1 SEWER LINES AND MANHOLES IN THE SYSTEM AS OF DECEMBER 31, 2019

SEWER LINES DISCARDED AND INSTALLED IN 2019

	DESTROYED OR		REMAINING IN	REMAINING IN
ORIGINAL	ABANDONED	BUILT	THE SYSTEM	THE SYSTEM
CONSTRUCTION	IN 2019	IN 2019	AS OF 12/31/2019	AS OF 12/31/2019
(FEET)	(FEET)	(FEET)	(FEET)	(MILES)
8,460,007.2	68,877.8	85,556.2	8,476,685.6	1,605.433

SEWER MANHOLES REMOVED AND INSTALLED IN 2019

	ORIGINAL	REMOVED	BUILT	REMAINING IN THE SYSTEM
	CONSTRUCTION	IN 2019	IN 2019	AS OF 12/31/2019
ľ	23,208	34	55	23,229

DETAILS OF SEWER LINES AND SEWER MANHOLES INSTALLED (CONSTRUCTED) IN 2019

ITEMS	BOARD FUNDED	BY OTHERS	TOTAL FEET	TOTAL MILES
6" PVC	15,102.5	531.5	15,634.0	2.960
8" PVC	54,707.1	1,699.1	56,406.2	10.680
10" PVC	0.0	3,123.0	3,123.0	0.590
12" PVC	0.0	4,537.7	4,537.7	0.860
15" PVC	0.0	3,041.0	3,041.0	0.570
18" PVC	0.0	2,406.0	2,406.0	0.460
21" PVC	0.0	29.0	29.0	0.000
27" PVC	292.3		292.3	0.055
TOTAL SEWER LINES CONSTRUCTED IN 2019	70,101.9	15,367.3	85,469.2	16.2
SEWER MANHOLES	BOARD FUNDED	BY OTHERS	TOTAL MANHOI	LES BUILT IN 2019
CONSTRUCTED IN 2019	44	11	5	55

SEWERAGE AND WATER BOARD OF NEW ORLEANS ANNUAL REPORT 2019 - FOR THE CALENDAR YEAR ENDING DECEMBER 31, 2019 SEWER TABULATION NUMBER 2 LENGTH OF SEWER LINES OF EACH SIZE AND MATERIAL DISCARDED, BUILT, AND NOW REMAINING IN THE SYSTEM

SIZE & MATERIAL OF SEWER	TOTAL LENGTH IN SYSTEM AS OF 12/31/2018	DESTROYED OR ABANDONED IN 2019	BUILT IN 2019	NOW REMAINING IN THE SYSTEM AS OF 12/31/2019	SIZE & MATERIAL OF SEWER	TOTAL LENGTH IN SYSTEM AS OF 12/31/2018	DESTROYED OR ABANDONED IN 2019	BUILT IN 2019	NOW REMAINING IN THE SYSTEM AS OF 12/31/2019
72" Steel	29,182.4			1	24" Steel	87.0			
68" Steel	9,061.9			×	24" Reinforced Concrete	26,537.0			-
66" Steel	28,979.7	1			24" Asbestos Cement	4,924.2			
66" Concrete	13,740.7				24" P.V.C.	5,949.6			
60" Steel	2,577.7				21" Reinforced Concrete	10,609.1	29.0	0.0	10,580.1
60" Concrete	722.8	5			21" P.V.C.	5,844.4		29.0	5,873.4
57" Concrete	1,766.8		3	1 () () () () () () () () () (20" Ductile Iron Pipe	1,991.4	9		
54" Steel	44,014.5				18" P.V.C.	34,676.5	0.0	2,456.0	37,132.5
54" Concrete	7,030.4				16" Steel	120.0			
51" Concrete	755.9			1	16" Cast Iron				
50" Steel	135.0				16" Asbestos Cement	28,460.9			
48" Steel	21,147.2	5			16" Plastic	1,913.1			
48" Concrete	10,127.6		0	11 12 12 12 12 12 12 12 12 12 12 12 12 1	16" P.V.C. C-900		0		
48" Fiberglass Reinforced	10,900.2				15" Vitrified Clay	96,418.8	1,866.0	0.0	94,552.8
48" P.V.C.	3,663.4	-			15" P.V.C.	16,781.7	0.0	3,041.0	19,822.7
45" Concrete	3,048.4				15" Plastic Truss	1,331.6			
42" Steel	3,580.2			12 2	12" Vitrified Clay	107,688.6	4,285.5	0.0	103,403.1
42" Concrete	19,121.2				12" P.V.C.	78,973.5	0.0	4,537.7	83,511.2
39" Brick	832.8		0	11 12 12 12 12 12 12 12 12 12 12 12 12 1	10" Vitrified Clay	147,715.6	2,006.5	0.0	145,709.1
39" Concrete	3,871.8				10" Steel	130.0		1855	
36" Vitrified Clay	1,894.9				10" Concrete	45,348.4	1,116.5	0.0	44,231.9
36" Cast Iron	431.0			1	10" Asbestos Cement	4,356.2			
36" Steel	332.6				10" P.V.C.	142,331.5	0.0	3,123.0	145,454.5
36" Pretressed Concrete	11,273.0				10" Plastic Truss	4,677.5	- 100	0.0407.000	
36" Reinforced Concrete	9,312.7		0	11 12	8" Terra Cotta	308,618.4	1,439.0	0.0	307,179.4
36" P.V.C.	10,604.0		5	×	8" Vitrified Clay	3,912,629.0	53,085.0	0.0	
33" Brick	3,080.9				8" Cast Iron	32,036.2	,		
33" Vitrified Clay	562.3			1	8" Ductile Iron	2,233.0			
33" Reinforced Concrete	1,381.4				8" Concrete	265,663.9	2,468.0	0.0	263,195.9
30" Brick	2,763.0	5			8" Asbestos Cement	2,777.9	435.0	0.0	
30" Vitrified Clay	7,538.5		a a	1.1.12	8" P.V.C.	1,058,074.3	37.0	56,443.2	1,114,480.5
30" Cast Iron	4,305.9	(c	*		8" Plastic Truss	61,911.8	642.0	0.0	
30" Steel	3,535.2	1			8" Plastic	689,939.1	1,176.0	0.0	
30" Prestressed Concrete	484.0				6" Terra Cotta	8,730.9	<i>h</i>		
30" Reinforced Concrete	33,920.5				6" Vitrified Clay	75,347.4			
30" Fiberglass Reinforced	16,400.0				6" Cast Iron	4,204.4			
30" P.V.C.	996.0				6" Asbestos Cement	4,493.9	8		
27" Vitrified Clay	24,428.4	292.3	0.	24.136.1	6" P.V.C.	479,207.3	0.0	15,634.0	494,841.3
27" Reinforced Concrete	13,336.4				6" Plastic Truss	1,763.3			
27" P.V.C.	4,634.0		292.	3 4,926.3	6" Plastic	364,867.8			
24" Vitrified Clay	31,572.2			*	4" Cast Iron	874.2			
24" Cast Iron	16,269.2	-			4" Ductile Iron	180.4			
24" Ductile Iron	619.0			1.1.1	4" P.V.C.	5,525.7			-
					4" Plastic	126.0	1		

Total Miles

1,602.274

13.050

16.204

1,605.433

SEWERAGE AND WATER BOARD OF NEW ORLEANS ANNUAL REPORT 2019 - FOR THE CALENDAR YEAR ENDING DECEMBER 31, 2019 WATER TABULATION NUMBER 1 WATER LINES, MANHOLES, VALVES, AND FIRE HYDRANTS IN THE SYSTEM AS OF DECEMBER 31, 2019

	WATER LINES DISCARDED AND INSTALLED IN 2019						
	DESTROYED OR REMAINING IN REMAINING IN						
ORIGINAL	ABANDONED	BUILT	THE SYSTEM	THE SYSTEM			
CONSTRUCTION	IN 2019	IN 2019	AS OF 12/31/2019	AS OF 12/31/2019			
(FEET)	(FEET)	(FEET)	(FEET)	(MILES)			
9,683,294.6	102,535.7	109,295.5	9,690,054.4	1,835.238			

WATER MANHOLES REMOVED AND INSTALLED IN 2019

ORIGINAL	REMOVED	BUILT	REMAINING IN THE SYSTEM
CONSTRUCTION	IN 2019	IN 2019	AS OF 12/31/2019
30,650	67	279	30,862

ORIGINAL	REMOVED	INSTALLED	REMAINING IN THE SYSTEM
CONSTRUCTION	IN 2019	IN 2019	AS OF 12/31/2019
29,990	142	468	30,316

FIRE HYDRANTS REMOVED AND INSTALLED IN 2019						
ORIGINAL REMOVED INSTALLED REMAINING IN THE SYSTEM						
CONSTRUCTION	IN 2019	IN 2019	AS OF 12/31/2019			
23,264	270	270	23,264			

DETAILS OF WATER LINES, MANHOLES, VALVES, AND FIRE HYDRANTS INSTALLED (CONSTRUCTED) IN 2019

ITEMS	BOARD FUNDED	BY OTHERS	TOTAL FEET	TOTAL MILES
2" P.V.C	2.024.8	6.0	2,030.8	0.385
4" P.V.C	733.7	125.0	858.7	0.163
5" P.V.C	3,251.5	448.0	3,699.5	0.700
3" P.V.C	75,213.4	2.072.6	77,286.0	14.638
12" P.V.C	9,616.2	238.4	9,854.6	1.866
16" P.V.C	617.0	0.0	617.0	0.117
20" P.V.C	1,960.0	0.0	1,960.0	0.371
36" P.V.C	660.5	0.0	660.5	0.125
12" PLASTIC	12.0	0.0	12.0	0.002
4" DUCTILE IRON	480.8	0.0	480.8	0.091
6" DUCTILE IRON	352.9	247.8	600.7	0.114
8" DUCTILE IRON	5.934.3	83.0	6.017.3	1.140
12" DUCTILE IRON	4.949.0	0.0	4,949.0	0.937
16" DUCTILE IRON	142.0	0.0	142.0	0.027
20" DUCTILE IRON	30.0	0.0	30.0	0.006
36" DUCTILE IRON	14.0	0.0	14.0	0.003
48" DUCTILE IRON	12.0	0.0	12.0	0.002
I6" STEEL	70.0	0.0	70.0	0.013
TOTAL WATER LINES CONSTRUCTED IN 2019	106,074.1	3,220.8	109,294.9	20.700
WATER MANHOLES	BOARD FUNDED	BY OTHERS	TOTAL MANHO	LES BUILT IN 2019
CONSTRUCTED IN 2019	245	34	2	:79
	·			
WATER VALVES	BOARD FUNDED	BY OTHERS	TOTAL WATER VALV	ES INSTALLED IN 2019
INSTALLED IN 2019	447	21	268	
FIRE HYDRANTS	BOARD FUNDED	BY OTHERS	TOTAL FIRE HYDRA	NTS INSTALLED IN 2019
INSTALLED IN 2019	266	4	2	:70

SEWERAGE AND WATER BOARD OF NEW ORLEANS ANNUAL REPORT 2019 - FOR THE CALENDAR YEAR ENDING DECEMBER 31, 2019 WATER TABULATION NUMBER 2 LENGTH OF WATER LINES OF EACH SIZE AND MATERIAL, NUMBER OF VALVES OF EACH SIZE, BOTH GATE AND CHECK, ORIGINALLY INSTALLED, THE QUANTITIES DISCARDED OR BUILT, AND THE QUANTITIES NOW REMAINING IN THE DISTRIBUTION SYSTEM

SIZE	MATERIAL	TOTAL LENGTH IN SYSTEM AS OF 12/31/2018	DESTROYED OR ABANDONED IN 2019	BUILT IN 2019	NOW REMAINING IN THE SYSTEM AS OF 12/31/2019
54"	Concrete Pipe	7,535.1			
50"	Steel Pipe	88,374.0		·	
48"	Cast Iron Pipe	12,759.3	12.0		12,747.3
48"	Steel Pipe	36,637.1			
48"	Concrete Pipe	4,982.9			
48"	Ductile Iron Pipe		12.0	12.0	0.0
43"	Cast Iron Pipe	11,170.1			3
42"	Cast Iron Pipe	4,349.6			
42"	Concrete Pipe	9,361.9			-
36" 36"	Cast Iron Pipe	4,523.3	14.0		4,509.3
36"	Steel Pipe Concrete Pipe	16,922.0 37,374.7			
36"	Ductile Iron Pipe	37,374.7	14.0	14.0	0.0
36"	P.V.C. Pipe	-	11.0	660.5	660.5
36"	Prestressed Concrete	675.0			
30"	Cast Iron Pipe	59,740.1			
30"	Ductile Iron Pipe	296.0			
30"	Steel Pipe	19,863.1			
30"	Concrete Pipe	71,216.4			-
30"	Prestressed Concrete	36,654.4			
30"	Reinforced Concrete	3,919.6			
30"	P.V.C. Pipe	3,716.1			
24"	Cast Iron Pipe	30,090.0			
24"	P.V.C. Pipe	1,372.0			
24"	Ductile Iron Pipe	140.0			2
24" 20"	Concrete Pipe	4,062.5		1,960.0	14 200 0
20"	P.V.C. Pipe Cast Iron Pipe	12,320.5		1,900.0	14,280.5
20"	Ductile Iron Pipe	10,441.4		30.0	10,471.4
20"	Concrete Pipe	18,755.8		50.0	10,471.
20"	Prestressed Concrete	212.5			
20"	Asbestos Cement	12,688.0			
18"	Reinforced Concrete	970.5			
16"	Steel Pipe			70.6	70.0
16"	Cast Iron Pipe	112,441.7	90.0		112,351.7
16"	Ductile Iron Pipe	6,702.7		142.0	6,844.7
16"	Concrete Pipe	5,681.6			
16"	Asbestos Cement	63,245.6			
16"	P.V.C. Pipe	14,649.0		617.0	15,266.0
15"	Reinforced Concrete	1,069.3			
12"	Plastic Pipe			12.0	12.0
12"	Cast Iron Pipe	836,515.7	16,377.0		820,138.7
12" 12"	Ductile Iron Pipe	22,587.1	740.0	4,949.0	26,796.1
12"	Steel Pipe Asbestos Cement	1,272.9 357,603.6	2,460.6		355,143.0
12"	P.V.C. Pipe	259,531.7	2,400.0	9,854.6	269,386.3
10"	Cast Iron Pipe	10,271.7	192.0	2,054.0	10,079.7
10"	Ductile Iron Pipe	670.0			10,077.1
10"	Asbestos Cement	12,763.6			
10"	P.V.C. Pipe	7,896.0			
8"	Cast Iron Pipe	108,455.2	8,364.0		100,091.2
8"	Ductile Iron Pipe	46,790.3	23.0	6,017.3	52,784.0
8"	Asbestos Cement	693,077.5	572.0		692,505.5
8"	P.V.C. Pipe	928,031.6		77,286.0	1,003,174.0
8"	Plastic Pipe	318,036.5			5
6"	Cast Iron Pipe	2,430,930.7	51,741.0		2,379,189.7
6"	Ductile Iron Pipe	25,961.6		600.7	25,070.3
6"	Asbestos Cement	1,034,080.7	13,304.0	2 500 5	1,020,776.
6"	P.V.C. Pipe	316,051.5	358.4	3,699.5	319,392.0
6" 4"	Plastic Pipe Cast Iron Pipe	121,385.5	48.7		121,336.8
4"	Ductile Iron Pipe	1,166,342.5 6,638.1	4,322.0	480.8	1,162,020.5
4"	Asbestos Cement	22,250.8		400.8	/,110.5
4"	P.V.C. Pipe	28,282.4	256.0	858.7	28,885.1
4"	Plastic Pipe	3,833.1	250.0	0.00.7	20,003.1
3"	Galvanized Steel	3,361.7			
2"	Cast Iron Pipe	7,909.9			-
2"	Galvanized Steel	9,620.0			
2"	P.V.C. Pipe	87,114.4		2,030.8	89,145.2
1"	Galvanized Steel	5,346.6			
Cotal L	inear Feet	9,683,294.6		109,295.5	9,690,054.4
	files	1,833.957	19.420	20.700	1,835.238

		VALVI	S	
SIZE	EXISTING IN SYSTEM AS OF 12/31/2018	REMOVED IN 2019	INSTALLED IN 2019	REMAINING IN SYSTEM AS OF 12/31/2019
48"	16			
42"	4			
36"	18			
30"	66			
24"	39			
20"	133		3	136
16"	193	2	1	192
14"	3			
12"	2,326	20	51	2,357
10"	72			
8"	6,866	54	204	7,016
6"	13,097	63	154	13,188
4"	7,263	2	85	7,346
Total	30,096	141	498	30,453

Table of Rainfall of New Orleans

December 31, 2019

YEAR No.	YEAR	JANUARY	NUARY FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTE	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		S r J
		AMO UNF	AMO UNY	Par Par	AMO	A DAT DAT	AMO UNT	TO TO DAT	AMO	AL DAT DAT	AMO	AL DAT DAT	AMO	AL TO DAT	AMO	PAT PAT	AMO	PAT PAT	AMO	AL TO DAT	AMO UNT	Bata Bata	AMO UNT	10 10 DAT	ANNUA L MONTH LY	EXCES SOR DEFICI T
	2010	1.75	5.91	7.66	2.74	10.40	2.97	13.37	6.12	19.49	7.24	26.73	5.62	32.35	9.58	41.93	2.26	44.19	0.39			46.90	1.58	48.49	4.04	-10.72
	total	535.36	538.82	1076.45	589.59	1666.04	561.82	2234.81	563.24	2798.09	655.15	3461.28	757.87	4219.15	692.32	4911.47	655.74	5567.19	378.29		425.10	6373.64	556.23			
117	avg.	4.58	4.61	9.20	5.04	14.24	4.80	19.10	4.81	23.92	5.60	29.58	6.48	36.06	5.92	41.98	5.60	47.58	3.23	50.82	3.63	54.48	4.75	59.21		
	2011	2.99	1.59	4.59	6.49	11.08	0.27	11.35	0.90	12.25	4.18	16.42	11.48	27.91	1.57	29.48	9.99	39.47	0.14	39.61	1.66	41.27	0.78		3.50	-17.02
	total	538.35	540.42		596.08	1677.12	562.09	2246.17	564.13	2810.34	659.33	3477.71	769.35	4247.06	693.89	4940.95	665.73	5606.66	378.43		426.76	6414.91	557.00	6969.26		
118	avg.	4.56	4.58	9.16	5.05	14.21	4.76	19.04	4.78	23.82	5.59	29.47	6.52	35.99	5.88	41.87	5.64	47.51	3.21	50.72	3.62	54.36	4.72			
	2012	1.74	3.38	5.12	6.16	11.28	8.14	19.42	2.45	21.87	4.84	26.71	12.89	39.60	17.79	57.39	3.83	61.22	0.15	61.36	2.13	63.50	2.30		5.48	6.68
	total	540.09	543.79	1086.16	602.24	1688.39	570.23	2265.58	566.58	2832.21	664.17	3504.42	782.25	4286.66	711.68	4998.34	669.55	5667.88	378.57	6046.45	428.90	6478.40	559.30			
1 19	avg.	4.54	4.57	9.13	5.06	14.19	4.79	19.04	4.76	23.80	5.58	29.45	6.57	36.02	5.98	42.00	5.63	47.63	3.18	50.81	3.60	54.44	4.70	59.12		
	2013	5.14	6.82	11.96	0.55	12.51	12.51	25.01	4.51	29.52	4.55	34.08	4.43	38.51	4.58	43.09	5.44	48.53	2.19	50.72	2.81	53.53	4.48		4.83	-1.10
	total	545.24	550.61	1098.12	602.78	1700.90	582.74	2290.60	571.09	2861.73	668.72	3538.49	786.68	4325.17	716.26	5041.43	674.99	5716.41	380.76		431.71	6531.94	563.78			L
120	avg.	4.54	4.59	9.15	5.02	14.17	4.86	19.09	4.76	23.85	5.57	29.49	6.56	36.04	5.97	42.01	5.62	47.64	3.17	50.81	3.60	54.43	4.70	59.11		
	2014	2.72	6.54	9.26	6.44	15.70	2.19	17.89	7.68	25.57	6.41	31.98	6.49	38.47	4.74	43.21	4.20	47.41	1.94	49.35	1.47	50.82	3.70		4.54	-4.55
	total	547.96	557.15	1107.37	609.22	1716.60	584.93	2308.48	578.78	2887.30	675.13	3570.47	793.17	4363.64	721.00	5084.64	679.19	5763.82	382.71	6146.52	433.17	6582.76	567.49			
121	avg.	4.53	4.60	9.15	5.03	14.19	4.83	19.08	4.78	23.86	5.58	29.51	6.56	36.06	5.96	42.02	5.61	47.63	3.16	50.80	3.58	54.40	4.69		(
	2015	4.76	1.65	6.41	4.21	10.62	11.29	21.91	6.86	28.78	2.75	31.53	4.32	35.85	2.59	38.45	4.15	42.60	5.21	47.81	5.52	53.33	6.76		5.01	1.01
(20)	total	552.72	558.80	1113.79	613.43	1727.22	596.22	2330.40	585.64	2916.08	677.88	3602.00	797.50	4399.50	723.59	5123.09	683.34	5806.41	387.92	6194.33	438.69	6636.08	574.25			
122	avg.	4.53	4.58	9.13	5.03	14.16	4.89	19.10	4.80	23.90	5.56	29.52	6.54	36.06	1 7.00	41.99	5.60	47.59	3.18	50.77	3.60	54.39	4.71	59.08	5.00	1 70
	2016 total	4.67	2.48 561.28	7.15	6.99 620.42	14.14 1739.09	11.73 607.95	25.87 2356.27	5.62 591.26	31.49 2947.53	8.16 686.04	39.65 3633.57	4.34	43.99 4443.49	7.63	51.62 5174.71	3.58 686.92	55.20 5861.63	0.02	55.22 6249.57	3.92 442.61	59.14 6692.18	4.70		5.32	4.72
100	avg.	4.53	4.56	9.09	5.04	14.14	4.94	2336.27	4.81	2947.03	5.58	29.54	6.52	36.13	5.94	42.07	5.59	47.66	3.15	50.81	3.60	54.41	4.71	59.11		
iZ3	2017	5.21	4.30	6.91	4.46	11.37	5.50	16.87	10.56	23.30	10.84	38.27	6.79	45.06	14.13	59.19	1.47	60.66	7 16	67.82	0.22	68.04	5.01	73.05	6.09	13.82
	total	562.60	562.98	1125.58	624.88	1750.46	613.45	2363.91	601.82	2965.73	696.88	3662.61	808.63	4471.24	745.35	5216.59	688.39	5904.98	395.10	6300.08	442.83	6742.91	583.96	7344.18	0.03	10.02
124	avg.	4.54	4.54	9.08	5.04	14.12	4.95	19.06	4.85	23.92	5.62	29.54	6.52	36.06	6.01	42.07	5.55	47.62	3.19	50.81	3.57	54.38	4.71	59.23		
124	2018	3.52	2.74	6.26	3.83	10.09	5.22	15.31	3.58	18 89	5.60	24.49	6.79	31.28	7.52	38.80	5.80	44.60	6.28	50.88	5.85	56.73	4.7		5.12	2.29
	total	566.12	565.72		628.71	1760.55	618.67	2379.22	605.40	2984.62	702.48	3687.10	815.42	4502.52		5255.39	694.19	5949.58	401.38		448.68	6799.64	588.63		0.12	2.23
125	avg.	4.53	4.53	9.05	5.03	14.08	4.95	19.03	4.84	23.88	5.62	29.50	6.52	36.02	6.02	42.04	5.55	47.60	3.21	50.81	3.59	54.40	4.71			
120	2019	2.78	4,73	7.51	1.65	9.16	8.36	17.52	8.26	25.78	3.23	29.01	13.52	42.53		49.43	0.62	50.05	7.67	57.72		58.72	2.75		5.12	2.35
	total	568.90	570.45		630.36	1769.71	627.03	2396.74	613.66	3010.40	705.71	3716.11	828.94	4545.05	759.77	5304.82	694.81	5999.63	409.05	6408.68	449.68	6858.36	591.38	7449.74	0.12	L.00
	avg.	4.52	4.53	9.04	5.00	14.05	4.98	19.02	4.87	23.89	5.60	29.49	6.58	36.07	6.03	42.10	5.51	47.62	3.25	50.86	3.57	54.43	4.69			
126	avy.	4.JZ	4.05	9.04	0.00	14.00	4.90	19.0Z	4.07	20.09	0.60	29.49	0.00	36.07	6.03	42.10	0.01	41.62	3.20	30.00	3.07	34.43	4.03	1 09.1Z		i

SEWERAGE AND WATER BOARD OF NEW ORLEANS December 31, 2019 COST OF OPERATIONS IDENTIFICATION PROGRAM BENCHMARKING 2019

ADMINISTRATIVE OFFICER:		
HUMAN RESOURCES:	*	
Cost to Hire an Employee	\$	287.66
Employee Turnover Rate		18.79%
RISK MANAGEMENT:		
Insurance Cost per Employee:		
Workers' Compensation	\$	3,469,856
Auto Liability	\$	110,297
General Liability	\$	2,730,371
GENERAL SUPERINTENDENT:		
ENGINEERING:		
Total Capital Program Design and		
Construction Contracts Cost Growth		10.0%
ENVIRONMENTAL:		
Cost of Typical Industry Sampling Event	\$	1,893.78
FACILITIES MAINTENANCE:		
Cost to set 5/8" water meter	\$	124.50
SUPPORT SERVICES:		
Average Annual Maintenance Cost	\$	1,294.21
Per Piece of Equipment		20-25%
CHIEF CUSTOMER SERVICE OFFICER:		
CUSTOMER REVENUE MANAGEMENT/CUSTOMER		
METER ASSURANCE/CUSTOMER EXPERIENCE:		
Cost to Read a Meter	\$	2.37
Cost to Render a Bill (Less Meter Reading)	\$	0.86
Cost to Manage a Customer by Phone	\$	3.11
Cost to Manage a Customer by Mail	\$	11.97
Cost to Manage a Walk-in Customer	\$	2.90
Cost to Process a Mail-in Payment	\$	1.09
Cost to Process a Walk-in Payment	\$	2.69
CHIEF FINANCIAL OFFICER:		
OFFICE OF CONTROLLER:		
Cost to Process a Miscellaneous Invoice	\$	44.37
Cost to Process a Vendor Invoice	\$	13.56
Cost to Process a Paycheck	\$	3.39
OFFICE OF PROCUREMENT:		
Cost to Process a Sundry Purchase Order	\$	58.56

THANK YOU!



We thank you for your time and interest in our 2019 CAFR. We thank our customers. We thank our men and women who serve to fulfill our mission of providing safe drinking water to everyone in New Orleans; removing waste water for safe return to the environment; draining away storm water; providing water for fire protection; providing information about products and services; and doing all of this continuously at a reasonable cost to the community.