



NUECES COUNTY WATER
CONTROL &
IMPROVEMENT
DISTRICT #4
WATER CONSERVATION
PLAN

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WATER CONSERVATION PLAN

NUECES COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT #4

Introduction

This water conservation plan is a guideline put forward by Nueces County Water Control and Improvement District #4 (hereinafter referred as the District) pursuant to the requirements of the Texas Commission on Environmental Quality (TCEQ) and the Texas Water Development Board (TWDB). A majority of this plan is based on the requirements set forth by the City of Corpus Christi as both of Nueces County Water Control and Improvement District #4 water supplies are provided through their sources. The introduction chapter will outline the background of the District, service area characteristics, and the purpose of this plan.

1.1 Background of Nueces County Water Control & Improvement 4

Before there was a Water District

Until the late 1920's water supply was strictly an individual effort. The island's population was in the low hundreds and each home had to supply its own needs. There was never a problem of water supply. Water wells could be installed rather easily as the supply existed only a few feet below the surface. What was in short supply was good drinking water. Some of the island's population relied upon cypress cisterns to collect rainwater for drinking. A few who happened to be lucky enough to be located in the right areas found a supply of potable or drinking water about seventeen feet below the surface. Although the water was drinkable, it contained considerable amounts of minerals and was often brackish. There were several windmills used to pump water on the island during this period.

The ground water supply was unpredictable at best. It rested atop salt water and was easily affected by the demand placed on the supply and the ocean tides. This uncertain fresh water supply situation was a constant question in the lives of the island's earliest citizens. It was a time when the water supply for cooking, drinking, and cleaning was a daily problem. Washing clothes was extremely difficult. The mineral laden water was so hard that soap refused to suds and white clothing became dingy after being washed. It was a time that forced people to live by thrift and respect for the environment they chose to inhabit.

The Beginning

The Nueces County Water Control and Improvement District No. 4 began with 300 accounts serving a population of approximately 1000. The system was purchased from the City of Port Aransas in 1958 for \$78,500. The first thing the District did was set a priority for additional water supply. Without an adequate supply, the District could not fulfill its most fundamental service. The District's first directors knew that one four-inch line from Harbor Island could never supply the island's future water needs. Thus began an almost 20-year period of negotiating, issuing bonds, and planning to ensure the island's future needs.

In the first year after the District was formed, an engineering study was made to project the District's future water needs. This study proposed construction of an eight-inch water line from the north end of Padre Island to Port Aransas. This proposal was not accepted by the District for a number of years. Instead, the District chose to bring an eight-inch water supply line from San Patricio Water District through Aransas Pass under the ship channel to Port Aransas. The District signed the first water supply contract with San Patricio Water District in 1958 and received its first billing in November of 1959. To pay for the water billed to the District, a user's fee of \$2.00 per 2,000 gallons was set.

With a contracted supply, storage and delivery capacity planned, the District would undergo all of the growth and maintenance problems associated with a developing system. It was a time when lines had to be laid, repaired, fixed, storage capacity constructed, and daily water needs met.

Early Years

The early years for the District are distinct from the initial demands of the beginning years as the basic supply and delivery system was in place. The years of 1962-1977, were faced with the changes in population and thereby the need for increased water supply and storage and the construction and addition of wastewater treatment for the island. During this 15-year period much upgrading and many additions were made. By the early 1960's, the population had increased enough that the members of the District recognized the problem with wastewater, and in 1962 passed a \$535,000 bond issue to construct the original wastewater treatment plant. Land at the end of Ross Avenue was purchased from the City and a 600,000 GPD treatment facility was constructed. This facility served the island's needs by utilizing a network of lift stations spread throughout the island. Wastewater management on a barrier island is an expensive process and must be maintained properly to accommodate the environmentally sensitive surroundings within which it operates.

Present Management Years

What is characteristic of this period of development for the District is that all of the elements (supply, distribution, wastewater treatment and disposal) are in place and the business of the District turns toward effective management and planning practices. With the construction of a sixteen-inch water supply line up the now park road, the District was virtually assured of an adequate supply for years ahead. A long debate about the best way to satisfy the island's water supply needs, from Aransas Pass and under the ship channel or to come up the park road from North Padre, was settled with the island being served by two water sources, Corpus Christi and

San Patricio. This dual supply system has many advantages and the island's water system is better equipped to handle the District's needs because of this configuration.

The District is one of the few which have already planned and permitted for future wastewater needs. The mid-island treatment plant with a capacity of 2,200,000 GPD has been permitted since the late 1980's, and when the demand is there, the District will be able to fulfill its obligation for service.

The present management approach taken by the District is one which calls for planning and permitting before the need.

It has also allowed the District to take formidable roles in the future of the island, construction standards on the island, and the protection of the island's natural resources.

1.2 Service Area Characteristics

The Nueces County Water and Improvement District #4 currently provides water and wastewater service for residents and businesses within the City of Port Aransas and the surrounding areas. The primary service boundary for both the water and wastewater is bound by the Corpus Christi Ship Channel on the north, the Gulf of Mexico on the east, Mustang Island State Park on the south, and Corpus Christi Bay on the west. The District maintains a secondary service boundary along Harbor Island; which is bound by Redfish Bay on the north, the Corpus Christi Ship Channel on the east, the Corpus Christi Bay on the south, and the City of Aransas Pass on the west.

The area is generally identified by four basic environmental units. These units are the beach, dune complex, barrier flats, and tidal flats. The beach is about 200 to 300 feet wide and comprised of very fine sand. The dune complex varies in height from 15 to 25 feet and averages 800 feet in width. It serves as protection to the barrier island during storm surges. The barrier flat is generally the level plain between the dune complex and the tidal flat on Corpus Christi Bay. The tidal flat of the island consist of the low-lying areas with either water cover or areas impacted by continuous wind and tidal influences. A map of the District's service area can be found in Appendix A.

1.3 Purpose of the Water Conservation Plan

Understanding that water is our state's most precious resource and the growing demand of that resource, Texas Water Development Board (TWDB) and Texas Commission on Environmental Quality (TCEQ) require water systems to provide a long-term plan for conservation.

This Water Conservation Plan (WCP) will explain the District's current water system, sources, supply, and distribution of water. In addition, it will describe the demand of water now and in the future for the District. In conclusion, the WCP will outline our goals for water conservation and explain how these goals will be implemented utilizing Best Management Practices provided by the TWDB.

2. Water System Profile

This chapter will describe the District's supply system. Including supply sources, storage, distribution system, our master meters, and waste water treatment.

2.1. Supply Sources

Nueces County Water Control and Improvement District #4 have two water systems that provide water to our customers. The District purchases treated water from the City of Corpus Christi which in turn obtains its supply from Lake Corpus Christi, Choke Canyon Reservoir, and Lake Texana by the way of the Mary Rhodes Pipeline. The water supply from the North is accomplished by an agreement with San Patricio Municipal Water District (SPMWD). SPMWD purchases treated and untreated water from City of Corpus Christi.

2.2. Storage and Pumping

The current system has an elevated storage capacity of 1.5 MG and ground storage capacity of 2.9 MG. Elevated storage tanks serve three purposes; equalization of peak demands to maintain a fairly constant pumping rate, provide pressure maintenances and system surge protection, and reserve capacity for fire protection and emergency conditions. The ground storage tanks generally serve two purposes, equalizing the different rates of supply and pumping into the system and reserve for emergency conditions.

The District presently has three pump stations. The Beasley pump station and storage tanks are located on Beasley Street in the City of Aransas Pass approximately seven miles west of Port Aransas. Here water is stored that was purchased from SPMWD and pumped to the Ferry Landing pump station. The Ferry Landing pump station and storage tanks are located in the City of Port Aransas at Port Street and Cotter Avenue. Stored water received from the Beasley pump station pump water to an elevated tank and provide service to the distribution system. Lastly, the Mustang Island pump station and storage tanks are located approximately eleven miles south of the City of Port Aransas. At this pump station water purchased from the City of Corpus Christi is stored and pumped to Port Aransas.

2.3. Water Distribution

The District owns and operates the water distribution system which supplies water to the customers of Port Aransas, Mustang Island, and Harbor Island. The system of pipelines range in diameter from 2 inches to 20 inches and cover 100 miles.

2.5. Wastewater

The wastewater collection system can be identified as separate components, one serving the City of Port Aransas and the other serving the remainder of Mustang Island. The two components are interconnected and the flow is transported by a series of lift stations to the

District's wastewater treatment plant. The overall collection system consists of force main and gravity lines varying in diameter from 4" to 24", including 21 lift stations, which are an essential element of design in flat terrain areas such as Port Aransas.

The wastewater treatment plant is located approximately 1/4 mile west of the intersection of Sixth Street and Avenue I, at the end of Ross Avenue in the City of Port Aransas. It is operated under TCEQ's TPDES Permit No.WQOOI0846001 and discharges into the marsh area west of the plant, then into Corpus Christi Bay in water segment No. 2481 of the Bays and Estuaries. The annual average design hydraulic capacity of the plant is 1.88 MGD with a two-hour peak of 3,917 gallons per minute (5.64 MGD).

2.6. Utility Profile

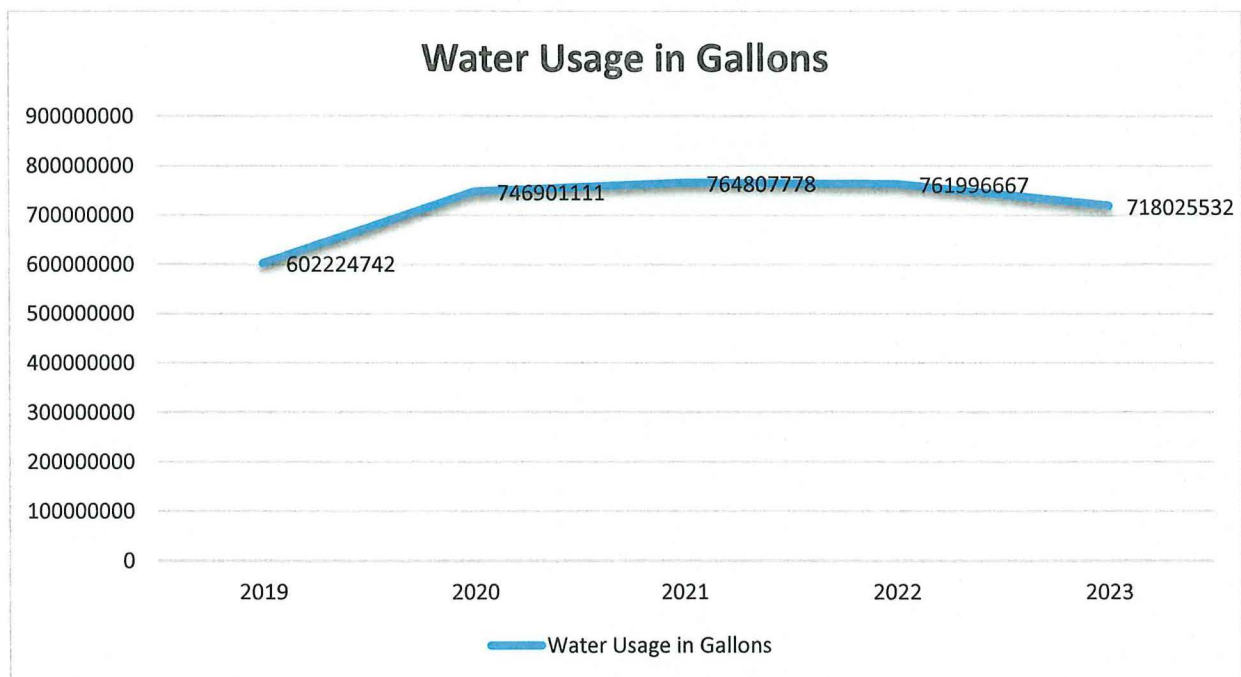
The District's utility profile, a detailed account of the water and wastewater system can be found in Appendix C. This profile will contain historical, present, and projected usage.

3. Water and Wastewater Demand

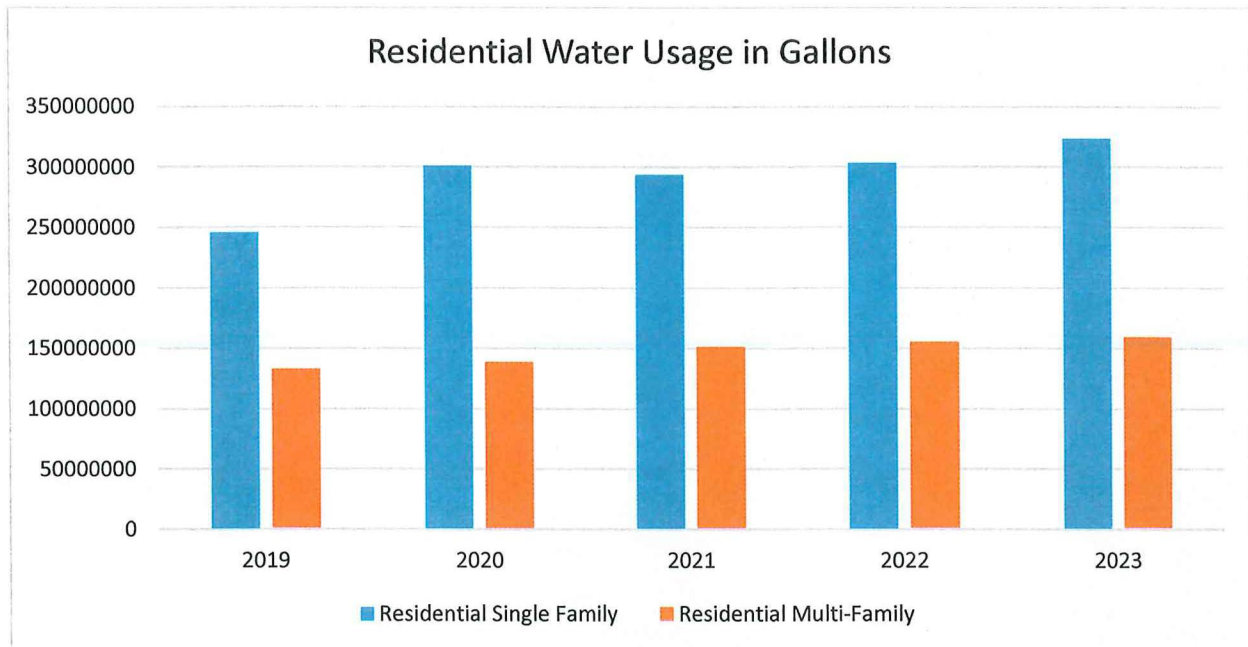
The demand placed on the water and wastewater systems is attributed to three general types of population found within the District. The first type consists of residents that permanently live within the District's service area including the City of Port Aransas. The second type includes customers that have second homes but live elsewhere the majority of the time. The third type includes tourist and vacationers.

To have an understanding of the demand placed on the District's systems will allow this utility to better implement and continue water conservation measures. This chapter will present charts and brief descriptions of past, present, and projected water demand for the District.

3.1. Historical and Present Water Usage



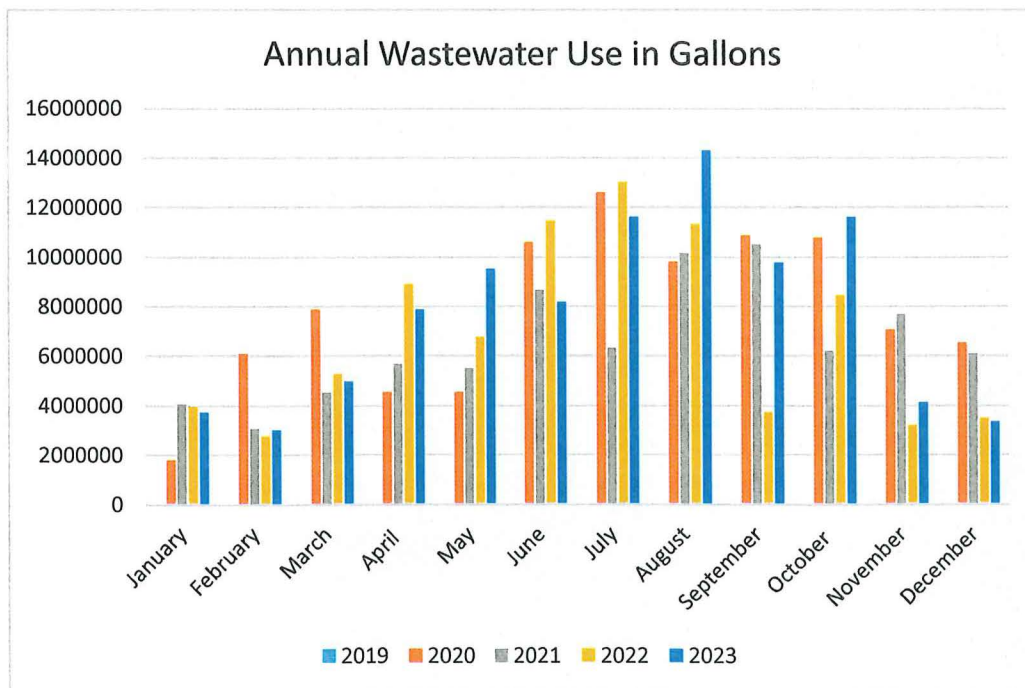
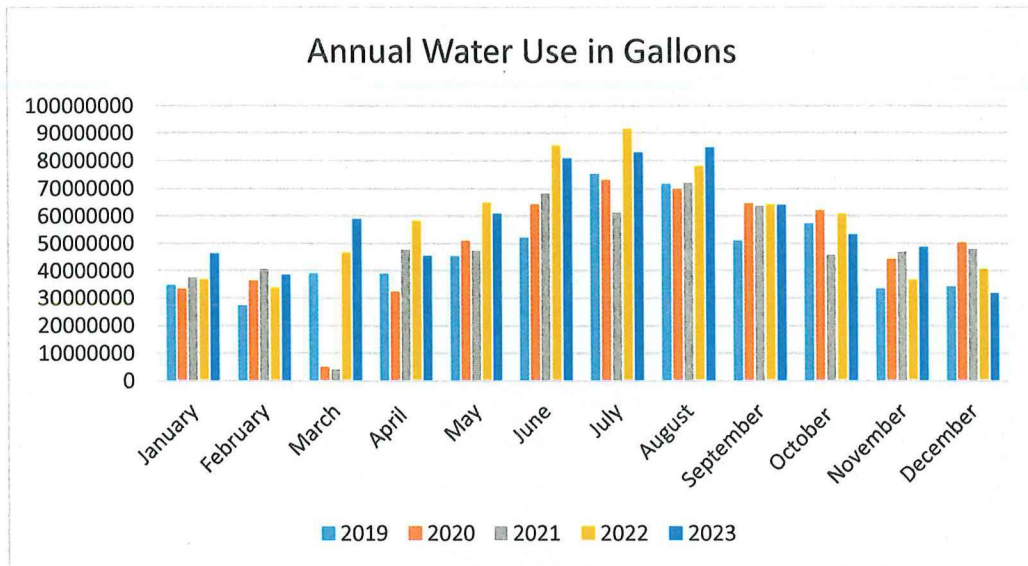
3.1.1 This chart illustrates the previous five years of annual retail water provided to the District's customers measured by gallons. After Hurricane Harvey made landfall in Port Aransas on August 25, 2017 the District has experienced a surge of housing, subdivision, and resort development. The development component continued with the onset of Covid-19 and housing demand for residential homes in the area. Reduction of usage was seen in 2022 when Stage One Watering Restrictions went into effect. A dramatic drop of usage is anticipated with the enactment of Stage Two in 2023 and Stage Three Restrictions in 2025 as lake levels continued to decline.



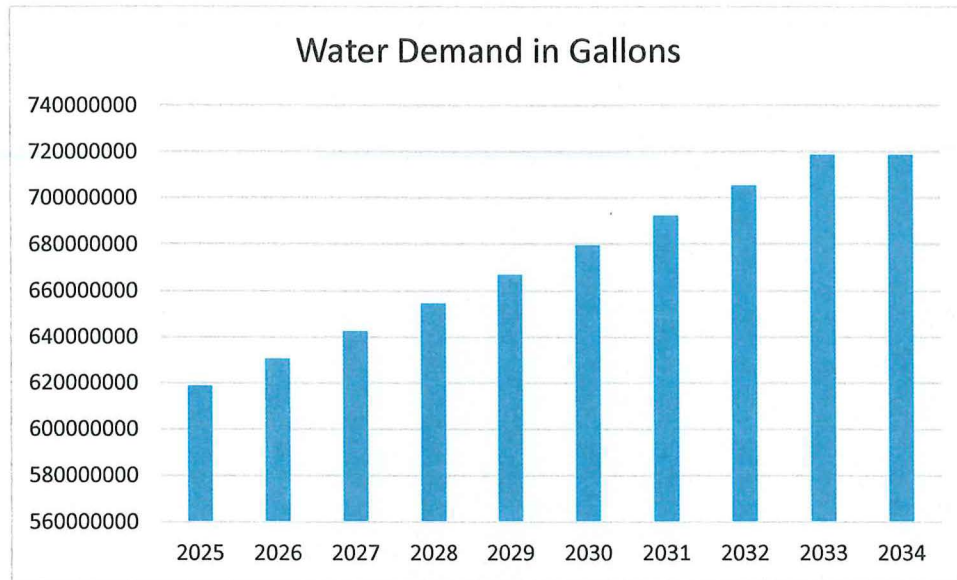
3.1.2 Above is the residential usage for the previous five years measured by gallons. It can be determined with this information that single family homes are responsible for the majority of the demand put on the water and wastewater systems.

3.3 Annual Water and Wastewater Usage in Gallons

The charts below display the water and wastewater usage treated in gallons over the previous five years. The information illustrates usage peaks during the seasonal summer months of June, July, and August.



3.4 Projected Demand



Projected demand using population trends, historical water use and economic growth indicates that in ten years the District could reach an annual nearing 730,000 million gallons a year.

A more aggressive conservation plan and continued implementations of Drought Restrictions could help municipal demand maintain or decrease, even utilizing aforementioned factors.

4. Conservation Practices

The District currently engages in conservation measures that ensures the preservation of water. These measures are on-going and year-round practices. The purpose of these procedures is to restrict supply-side water loss with an emphasis on universal metering. The following is a brief explanation the District's current practices.

4.1. Master Meter:

Two master meters are located the take points from the District's distributors. One is located at Mustang Island pump station which tracks water purchased from the City of Corpus Christi. This meter is read on a daily basis. The other is located in the City of Aransas Pass which tracks the water purchased from San Patricio Municipal District. This meter is read on a daily basis. All daily records are transferred to a database as well as maintained tangibly in the main District office.

4.2 Universal Metering:

The most significant stride in water conservation for the District was the adoption and implantation of Harmony/Master Meter software (hereby known as AMI). Approved by the District's Board of Directors in 2015, every retail meter was equipped with this technology. AMI capabilities allow a real time network that for the District to monitor leaks (24 hours of continuous usage), tampering, defective meters, as well as usage on an inactive service. Customer Service Representatives alert customers on a daily basis of leaks and high usage. Individual alerts are updated and maintained in the meter reading software and billing software. Services listed below are also provided to retail customers in order to correct leak or faulty irrigation usage.

- Toilet flappers and leak detection dye tablets are routinely offered by Customer Service Representatives when customers are alerted.
- On site leak detection available on request

This technology also provides the District's customer's ability to view their utility accounts utilizing a phone application. Customers are alerted to continuous or high usage set by their personal parameters. The District has not launched this program but foresees doing so in the near future. Examples of this software can be found in Appendix D.

4.3 Water Loss Prevention:

Another water conservation measure the District practices is to monitor water loss closely and effectively. Known loss is tracked on a monthly basis through a database created by District personnel. This database can also account for actual and unknown loss. Also, an annual water loss audit is conducted in accordance with TWDB and TCEQ.

4.4 Water Rate Structure:

The rate structure is established in order to deter customers from wasteful practices. After the minimum of 2,000 gallons is used a rate for every 1,000 gallons begins. The minimum is based on the size of the meter. The larger the meter the larger the minimum. This is to prevent commercial entities from excessive usage. A copy of the rate schedule can be found in Appendix E.

As lake levels continue to drop due to drought conditions the District anticipates adopting a tiered rate structure.

4.5 Contractual Obligations:

Both water systems obtain their sources from the City of Corpus Christi. Therefore, the enforceable restrictions the City of Corpus Christi has in place are willingly practiced within this District.

A brief explanation of those measures, extracted from the City of Corpus Christi's WCP, are listed below:

Prohibition on Wasting Water: Under the Prohibition on Wasting Water Conservation Measure, it is unlawful to waste water. Actions leading to the wasting water are prohibited and will be enforced. No person shall:

Allow water to run off property into gutters or streets.

Permit or maintain defective plumbing in a home, business establishment or any location where water is used on the premises. Defective plumbing includes out-of-repair water closets, underground leaks, defective or leaking faucets and taps.

Allow water to flow constantly through a tap, hydrant, valve, or otherwise by any use of water connected to the District water system.

Use any non-recycling decorative water fountain.

Allow irrigation heads or sprinklers to spray directly on paved surfaces such as driveways, parking lots, and sidewalks in public right-of-ways.

Operate an irrigation system at water pressure higher than recommended, causing heads to mist, or to operate with broken heads.

Irrigation timing: Landscape irrigation is most efficient during early morning or nighttime hours, when there is less potential for evaporation from the sun. This conservation measure prohibits irrigation by spray or sprinklers between the hours

of 10 am and 6 pm. It is still permissible to water by hand or by drip irrigation at any time of the day.

Restaurant Water Saving: Under this conservation measure, commercial dining facilities must only serve water upon request. In addition, any hand-held dish-rinsing wand must have an automatic shut-off.

4.5 Leak Detection:

Currently the District's practice for leak detection of main transmission and distribution lines is sight/report only. It is the District's intention to implement and maintain a distribution water loss program.

4.6 Education:

Previously, the only means of education the District provided was conducted on a case-by-case basis utilizing our metering software. Currently, with water restrictions put in place the District updates customers through local newspapers, social media posts, notices on statements directing to District website, and educating new customers upon purchasing a residence or business.

4.7 Wholesale Customers:

Currently the District does not require their wholesale customers to submit a water conservation plan. Upon renewal or an extension of a water contract it will be made a requirement to adopt and submit a water conservation plan.

5. Goals

Ultimately, the goal of the District is to aid the ongoing incentive to conserve water in order to ensure this limited resource for the future. This can be achieved by analyzing historical information, continuing current conservation practices, and implementing new conservation measures. These measures will include the specific conservation practices that are required by TCEQ, enforceable conservation practices by the City of Corpus Christi, and practices unique to the District. This chapter of the WCP will include the District's quantifiable five-to-ten-year goals and a schedule for implementing the District's water conservation plan in order to achieve said goals.

5.1 Five to Ten Year Goal

The long-term goal of the District is to lower the gross per capita consumption by one percent every year over a ten year period. This will be measured, now and in the future, by gross per capita daily (gpcd). This is determined when the total amount system input is divided by permanent population then divided by 365 days. Annual recording of the system gpcd will be tracked and saved in order to ensure progress towards this goal. The total gpcd, residential gpcd, and water loss gpcd is shown on the table below.

	Baseline	5 Year Goal for 2024	10 Year Goal for 2029
Total GPCD	759	581	550
Residential GPCD	508	413	391
Water Loss GPCD	67	29	27

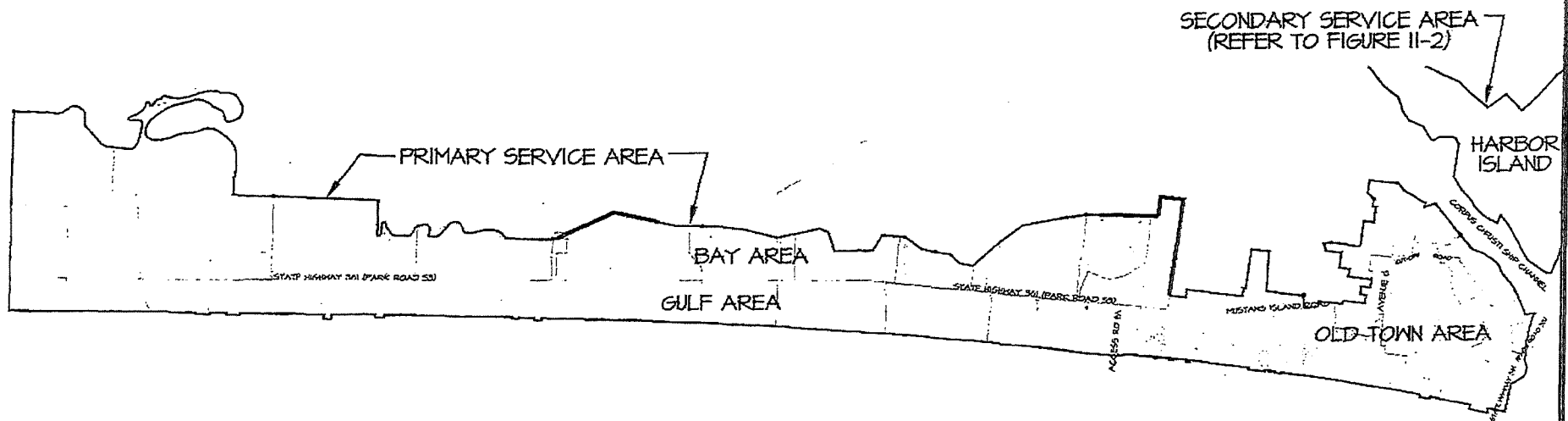
5.2 Water Conservation Implementation Schedule

Conservation Measure	Purpose	Implementation Date	Implementation Schedule
Leak Detection	Reduce real loss of water by introducing and maintaining a program to detect leaks in distribution and main lines	2024	Annually
Public Education	Educate the public of water conservation by providing literature upon every new service, a portal on the District website, coordination with local media, statement notices, and mass emails	2024	Ongoing
School Education	Educate the youth of the importance of water conservation by partnering with local school district	2024	Ongoing
System Water Loss Audit	Identify areas of the water system that contribute to water loss	2016	Annually
Prohibition on wasting water	Reduce consumption of water regardless of drought conditions	2013	Ongoing
Irrigation Timing	Reduce evaporative loss and unnecessary water consumption by limiting hours of irrigation to 10 am to 6pm, regardless of drought conditions	2013	Ongoing
Restaurant water reduction	Reduce unnecessary water loss by requiring restaurants to serve water only upon request	2013	Ongoing
Universal Metering	Continue to utilize software that tracks leaks and high usage and inform customers accordingly.	2015	Ongoing
Website	Add and maintain a conservation page on the District website which will allow for public comments	2020	Ongoing

6.0 Adoption of Water Conservation Plan

On July 23, 2025, the Water Conservation Plan was discussed at a public meeting of the Board of Directors. The Board Meeting agenda was posted along with other items as part of the normal dissemination of the Board Meeting agenda. At this time the Board of Directors adopted the Drought Contingency Plan and the Water Conservation Plan. District Manager, Scott Mack was named enforcement agent. Office Manager, Katie Barrett will be responsible for the annual reporting of the utility profile in accordance to TWDB and TCEQ.

APPENDIX A



NOTE:

PRIMARY SERVICE AREA DIVIDED INTO THREE ZONES:
OLD TOWN AREA, BAY AREA, & GULF AREA.

FIGURE II-1:
PRIMARY SERVICE AREA
NUECES COUNTY WATER CONTROL
AND IMPROVEMENT DISTRICT #4

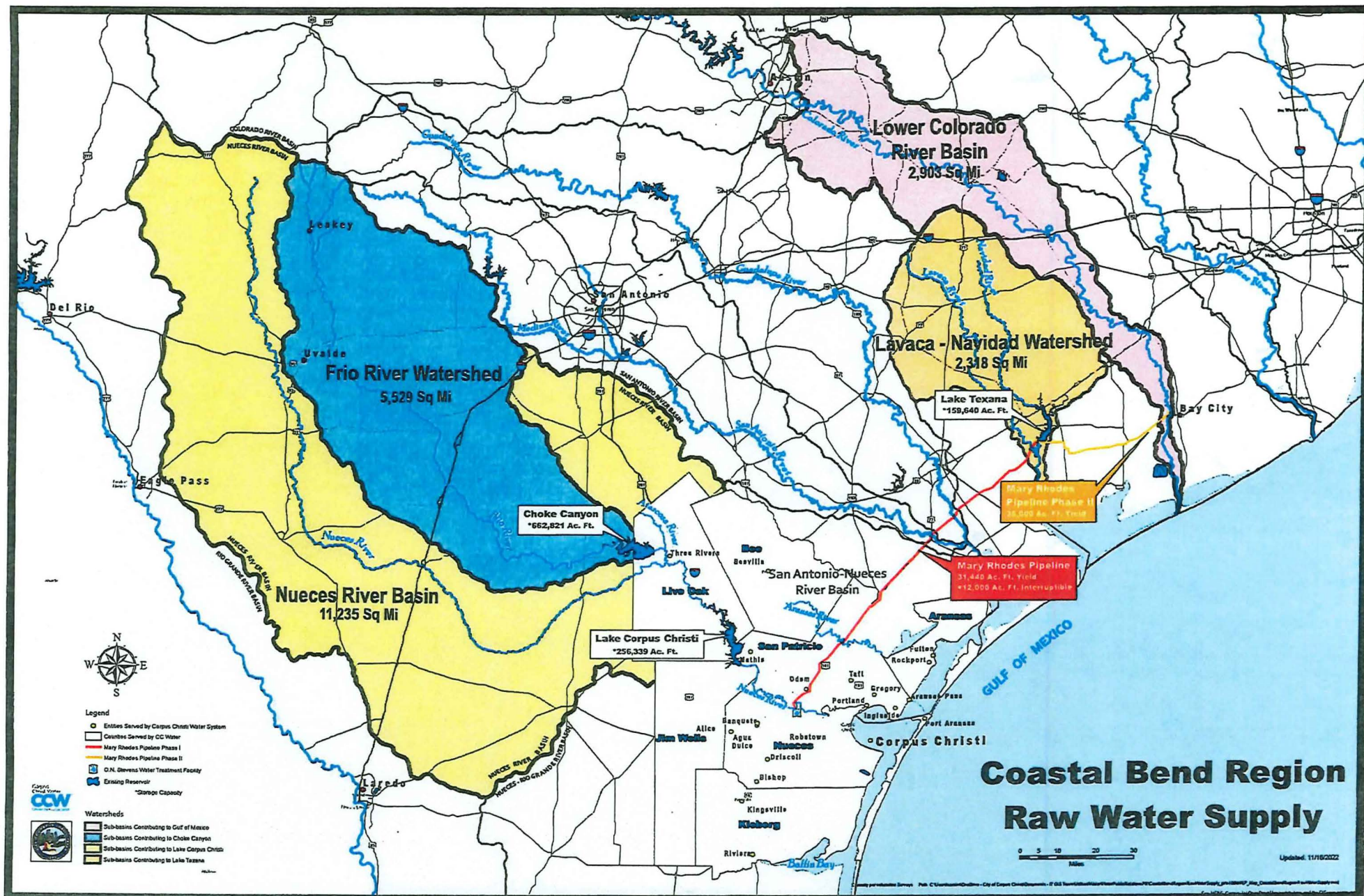
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SCALE: NOT-TO-SCALE



2125 Swamper St., Corpus Christi, TX 78404
PHONE: (361) 834-0101 FAX: (361) 834-6001

APPENDIX B



APPENDIX C

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

CONTACT INFORMATION

Name of Utility: NUECES COUNTY WCID 4

Public Water Supply Identification Number (PWS ID): TX1780006

Certificate of Convenience and Necessity (CCN) Number: 10571

Surface Water Right ID Number: _____

Wastewater ID Number: 20205

Contact: First Name: Katie Last Name: Barrett

Title: Office Manager

Address: 200 Howard Blvd City: Port Aransas State: TX

Zip Code: 78373 Zip+4: _____ Email: kbarrett@ncwcid4.org

Telephone Number: 3617495201 Date: 6/25/2025

Is this person the designated Conservation Coordinator? ☒ Yes ☐ No

Regional Water Planning Group: N

Groundwater Conservation District: _____

Our records indicate that you:

- ☐ Received financial assistance of \$500,000 or more from TWDB
- ☒ Have 3,300 or more retail connections
- ☐ Have a surface water right with TCEQ

A. Population and Service Area Data

1. Current service area size in square miles: 70

Attached file(s):

File Name	File Description
service area map.pdf	Service Area Map

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. Historical service area population for the previous five years, starting with the most current year.

Year	Historical Population Served By Retail Water Service	Historical Population Served By Wholesale Water Service	Historical Population Served By Wastewater Water Service
2024	3,619	1	5,123
2023	3,024	1	4,956
2022	1,638	0	4,650
2021	1,638	0	4,528
2020	4,494	1	4,392

3. Projected service area population for the following decades.

Year	Projected Population Served By Retail Water Service	Projected Population Served By Wholesale Water Service	Projected Population Served By Wastewater Water Service
2030	40,632	0	34,538
2040	51,256	0	43,568
2050	64,658	0	54,960
2060	81,564	0	69,330
2070	102,890	0	87,457

4. Described source(s)/method(s) for estimating current and projected populations.

Previous and projected population was found in the Water and Wastewater Facility Master Plan, developed by Urban/DCCM Engineering. A growth factor of 2.35% was utilized and projected population is based on 3.0 x total connections based on TCEQ guidance. Wastewater was projected due to agricultural usage typically is 15% of total water usage.

Attached file(s):

File Name	File Description
population growth.pdf	Population Growth

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

B. System Input

System input data for the previous five years.

Total System Input = Self-supplied + Imported – Exported

Year	Water Produced in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total
2024	0	727,690,289	2,112,121	725,578,168	
2023	0	718,025,532	5,530,303	712,495,229	
2022	0	761,996,667	3,300,000	758,696,667	
2021	0	764,807,778	0	764,807,778	
2020	0	746,901,111	0	746,901,111	
Historic Average	0	743,884,275	2,188,485	741,695,791	

C. Water Supply System

Attached file(s):

File Name	File Description
system capacity.pdf	Water Supply System

1. Designed daily capacity of system in gallons 4,450,000
2. Storage Capacity
 - 2a. Elevated storage in gallons: 1,500,000
 - 2b. Ground storage in gallons: 2,950,000

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

D. Projected Demands

1. The estimated water supply requirements for the next ten years using population trends, historical water use, economic growth, etc.

Year	Population	Water Demand (gallons)
2026	36,014	618,524,000
2027	36,694	630,214,000
2028	40,444	642,125,000
2029	41,208	654,261,000
2030	41,986	666,626,000
2031	42,779	679,225,000
2032	43,587	692,062,000
2033	44,410	705,141,000
2034	45,249	718,468,000
2035	46,104	732,047,000

2. Description of source data and how projected water demands were determined.

Please find attached the Water System Analysis provided by Urban/DCCM Engineering.

Attached file(s):

File Name	File Description
projected demand.pdf	Water System Analysis

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

E. High Volume Customers

1. The annual water use for the five highest volume
RETAIL customers.

Customer	Water Use Category	Annual Water Use	Treated or Raw
Port Royal Condo	Commercial	13,131,000	Treated
University of Texas	Institutional	12,397,000	Treated
Gulf Waters RV Resort	Commercial	8,146,000	Treated
Sandcastle Co-Owners	Commercial	4,897,000	Treated
Nueces County IB Magee	Commercial	4,627,000	Treated

2. The annual water use for the five highest volume
WHOLESALE customers.

Customer	Water Use Category	Annual Water Use	Treated or Raw
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F. Utility Data Comment Section

Additional comments about utility data.

Section II: System Data

A. Retail Water Supplier Connections

1. List of active retail connections by major water use category.

Water Use Category Type	Total Retail Connections (Active + Inactive)	Percent of Total Connections
Residential - Single Family	4,401	37.35 %
Residential - Multi-Family	4,986	42.32 %
Industrial	19	0.16 %
Commercial	2,092	17.76 %
Institutional	65	0.55 %
Agricultural	219	1.86 %
Total	11,782	100.00 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. Net number of new retail connections by water use category for the previous five years.

Year	Net Number of New Retail Connections						
	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	Total
2024	103	4		9	6	8	130
2023	188	30	5	57	1	19	300
2022	284	84		6	4	20	398
2021	275	180	9	6			470
2020	143	2	1	5	5		156

B. Accounting Data

The previous five years gallons of RETAIL water provided in each major water use category.

Year	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	
2024	286,957,000	146,252,000	8,732,000	92,816,000	27,037,000	45,257,000	6
2023	322,857,000	158,231,000	12,777,000	84,242,000	27,374,000	69,191,000	6
2022	303,071,000	154,228,000	7,070,000	101,123,000	28,647,000	90,404,000	6
2021	293,202,000	150,346,000	7,577,000	100,422,000	24,185,000	89,992,000	6
2020	300,327,000	137,505,000	4,408,000	100,102,000	23,808,000	104,182,000	6

C. Residential Water Use

The previous five years residential GPCD for single family and multi-family units.

Year	Total Residential GPCD
2024	328
2023	436
2022	765
2021	742
2020	310
Historic Average	516

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

D. Annual and Seasonal Water Use

1. The previous five years' gallons of treated water provided to RETAIL customers.

Month	Total Gallons of Treated Water				
	2024	2023	2022	2021	2020
January	43,682,000	48,228,000	40,250,000	43,024,000	39,448,000
February	39,178,000	43,412,000	37,342,000	45,231,000	38,276,000
March	49,045,000	60,540,000	49,531,000	43,076,000	48,724,000
April	47,636,000	47,605,000	60,056,000	53,048,000	41,980,000
May	52,442,000	54,369,000	71,512,000	50,999,000	53,137,000
June	65,184,000	80,507,000	88,853,000	70,349,000	65,825,000
July	66,466,000	82,675,000	92,121,000	64,036,000	74,533,000
August	63,155,000	87,203,000	79,060,000	75,765,000	74,960,000
September	58,084,000	62,931,000	55,407,000	67,390,000	70,950,000
October	46,978,000	53,485,000	62,265,000	49,747,000	67,124,000
November	42,217,000	50,249,000	40,673,000	51,188,000	50,278,000
December	41,918,000	32,882,000	43,384,000	53,857,000	59,094,000
Total	615,985,000	704,086,000	720,454,000	667,710,000	684,329,000

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. The previous five years' gallons of raw water provided to RETAIL customers.

Month	Total Gallons of Raw Water				
	2024	2023	2022	2021	2020
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Total					

3. Summary of seasonal and annual water use.

	Summer RETAIL (Treated + Raw)	Total RETAIL (Treated + Raw)
2024	194,805,000	615,985,000
2023	250,385,000	704,086,000
2022	260,034,000	720,454,000
2021	210,150,000	667,710,000
2020	215,318,000	684,329,000
Average in Gallons	226,138,400.00	678,512,800.00

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

E. Water Loss

Water Loss data for the previous five years.

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2024	111,256,336	84	0.82 %
2023	33,640,645	31	0.95 %
2022	69,012,997	115	0.90 %
2021	95,686,885	160	0.86 %
2020	60,971,847	37	0.91 %
Average	74,113,742	85	0.89 %

F. Peak Day Use

Average Daily Water Use and Peak Day Water Use for the previous five years.

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2024	1,687,630	2117445	1.2547
2023	1,929,002	2721576	1.4109
2022	1,973,846	2826456	1.4320
2021	1,829,342	2284239	1.2487
2020	1,874,873	2340413	1.2483

G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	301,282,800	37.35 %	45.62 %
Residential - Multi-Family	149,312,400	42.32 %	22.61 %
Industrial	8,112,800	0.16 %	1.23 %
Commercial	95,741,000	17.76 %	14.50 %
Institutional	26,210,200	0.55 %	3.97 %
Agricultural	79,805,200	1.86 %	12.08 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

H. System Data Comment Section

Section III: Wastewater System Data

A. Wastewater System Data

Attached file(s):

File Name	File Description
waste water.pdf	Waste Water System

1. Design capacity of wastewater treatment plant(s) in gallons per day: 1,880,000

2. List of active wastewater connections by major water use category.

Water Use Category	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal	9,387		9,387	81.24 %
Industrial			0	0.00 %
Commercial	2,092		2,092	18.10 %
Institutional	65		65	0.56 %
Agricultural	11		11	0.10 %
Total	11,555		11,555	100.00 %

3. Percentage of water serviced by the wastewater system: 91.10 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

4. Number of gallons of wastewater that was treated by the utility for the previous five years.

Month	Total Gallons of Treated Water				
	2024	2023	2022	2021	2020
January	37,358,000	39,612,000	28,106,000	32,235,000	29,999,000
February	33,540,000	32,641,000	28,599,000	35,807,000	28,121,000
March	41,708,000	46,895,000	38,722,000	34,084,000	37,048,000
April	40,179,000	37,906,000	45,432,000	39,564,000	30,347,000
May	43,924,000	43,234,000	52,725,000	39,995,000	39,770,000
June	56,896,000	65,546,000	65,982,000	57,092,000	50,796,000
July	59,029,000	70,147,000	71,869,000	52,917,000	57,600,000
August	55,295,000	57,048,000	60,851,000	58,779,000	55,870,000
September	45,818,000	51,921,000	42,400,000	50,154,000	50,997,000
October	39,699,000	43,892,000	48,023,000	37,062,000	48,239,000
November	34,839,000	42,195,000	30,806,000	36,233,000	35,206,000
December	36,158,000	27,601,000	34,657,000	38,506,000	41,743,000
Total	524,443,000	558,638,000	548,172,000	512,428,000	505,736,000

5. Could treated wastewater be substituted for potable water?

☐ Yes ☒ No

B. Reuse Data

1. Data by type of recycling and reuse activities implemented during the current reporting period.

Type of Reuse	Total Annual Volume (in gallons)
On-site Irrigation	
Plant wash down	
Chlorination/de-chlorination	
Industrial	
Landscape irrigation (park,golf courses)	0
Agricultural	
Discharge to surface water	
Evaporation Pond	
Other	
Total	0

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

C. Wastewater System Data Comment

Additional comments and files to support or explain wastewater system data listed below.

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APPENDIX D



Orders Fixed Network Administrative

Repeaters

Signal: 8
 Connected: 8
 Disconnected: 0

Details



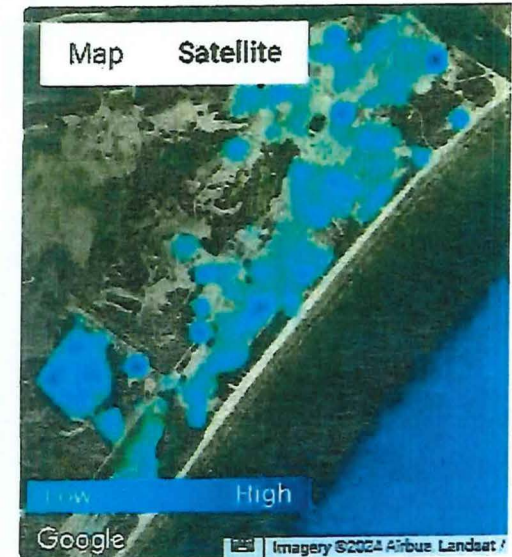
Connected
 Disconnected

Meters with no reception

Meter ID	Unit Type	Address
00010521066	Allegro 4GBL / UT-21	327 TROJAN
00010510491	Allegro 4GBL / UT-21	606 PALMINO
00010678959	Allegro 4GBL / UT-21	682 MORGAN CIRCLE
00010520863	Allegro 4GBL / UT-21	2606 S 11TH ST 11
00010683549	Allegro 4GBL / UT-21	510 BRUMLEY
00010521430	Allegro 4GBL / UT-21	126 MUSTANG ROYALE BLVD
00010956633	Allegro 4GBL / UT-21	141 PORTO VILLAGE DR
00010520998	Allegro 4GBL / UT-21	522 W AVE C
00010680897	Allegro 4GBL / UT-21	6877 HWY 361 S 6
00010443485	Allegro 4GBL / UT-21	820 SEA BREEZE
00010442129	Allegro 4GBL / UT-21	136 Sea Rocket Lane
00010521963	Allegro 4GBL / UT-21	331 Paradise Pointe Dr
00010679591	Allegro 4GBL / UT-21	677 MORGAN CIRCLE UNIT D
00010684091	Allegro 4GBL / UT-21	424 E COTTER

Consumption Map

Map Satellite



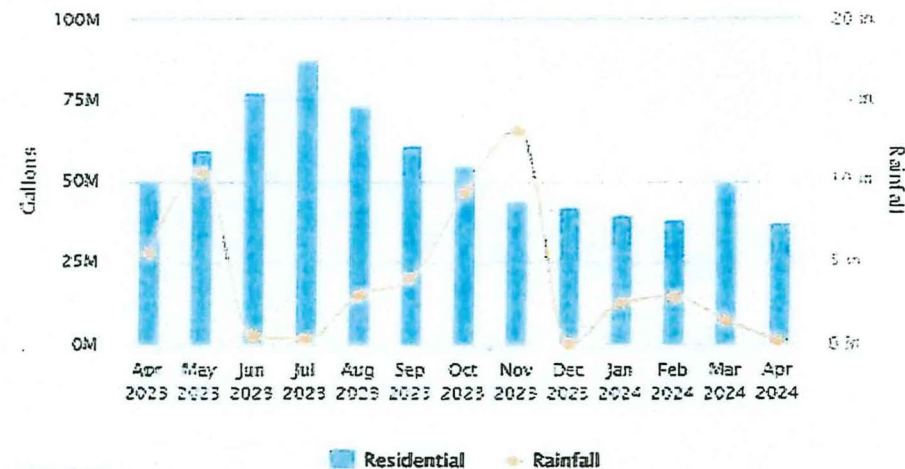
Usage by Meters



RX Level 3 Not Received

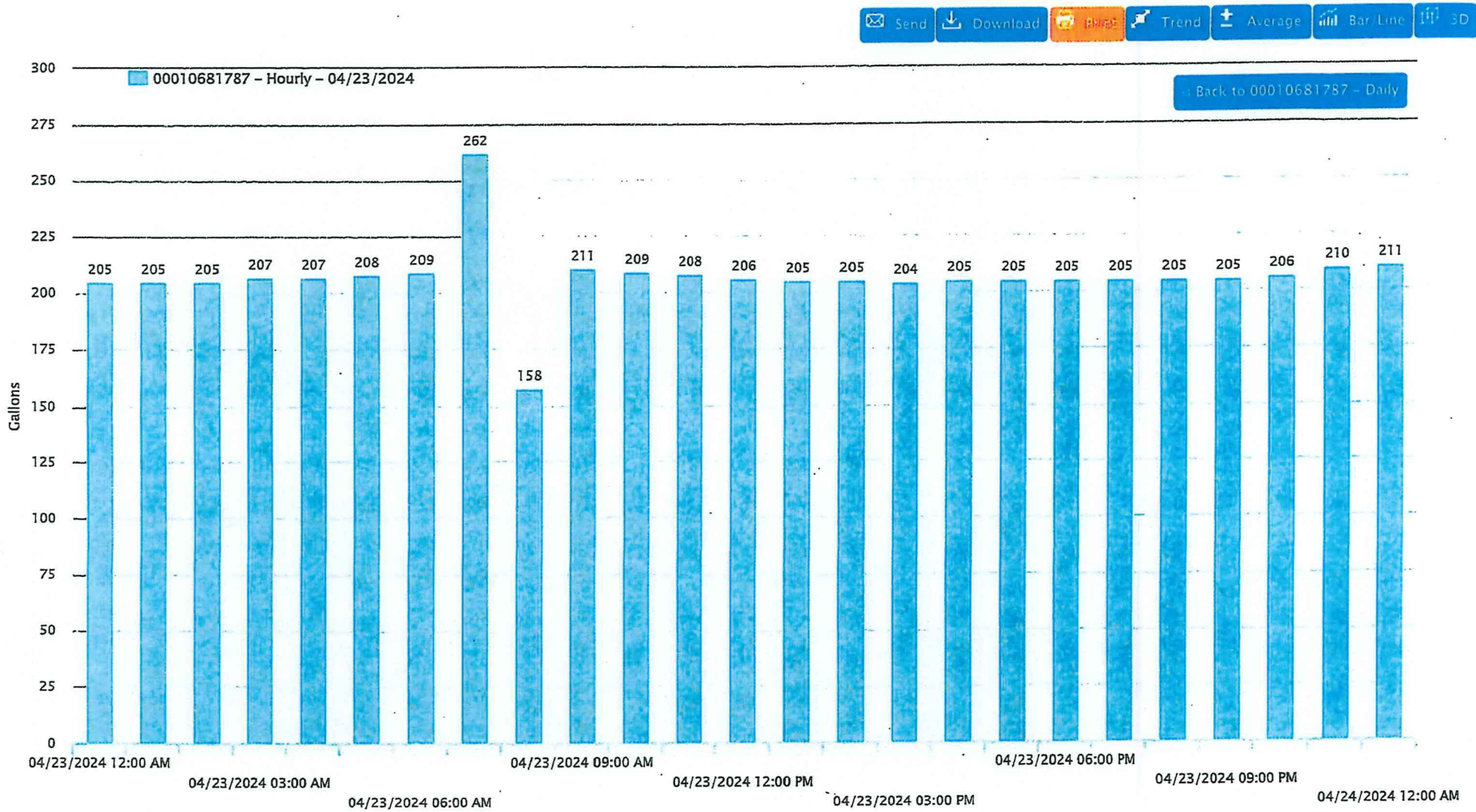
Consumption

Monthly Total Consumption



Monthly

Consumer Name:CAMINATA DE LA PLAYA LLC
Address: 604 E AVE G



APPENDIX E

Amended Rates Effective 10/01/2023- Water rates effective 1/1/2024

Drought Related Rates and Penalties

In accordance with the Resolution Concerning Enforcement Provisions in the Drought Contingency Plan for Nueces County WCID #4

Water Restrictions Violations		Stages of Drought and Surcharges		
1st Offense	Written Notice	Stage 1	Below 50% Combined	No Surcharge
2nd Offense	Disconnect with \$150.00 Reconnect	Stage 2	Below 40% Combined	No Surcharge
3rd Offense	Disconnect with \$300.00 Reconnect	Stage 3	Below 30% Combined	Optional/ Rate may be 1.5 times normal
4th Offense	Disconnect with \$500.00 Reconnect	Stage 4	Below 20% Combined	Two times published rate
5th offense	Disconnect without Reconnect*	Stage 5	Below 10% Combined	Three times published rate

*May appeal to the water allocation and Review Committee

APPENDIX F



200 howard boulevard • port aransas, texas 78373

office 361.749.5201 • fax 361.749.5799

KATIE BARRETT
office manager

July 01, 2025

Nueces River Authority
rfreund@nueces-ra.org

Re: Drought Contingency Plan and Water Conservation Plan

Dear Ms. Fruend

This letter is to notify you that the Nueces County Water Control and Improvement District #4 (PWS 1780006) had adopted a Water Conservation Plan and a Drought Contingency Plan. This notices is in accordance with Texas Water Development Board and Texas Commission on Environmental Quality.

Please contact me if you have any questions or concerns.

Sincerely,

Katie Barrett
Office Manager

RESOLUTION NO. 2025-3

**A RESOLUTION OF THE NUECES COUNTY WATER CONTROL AND
IMPROVEMENT DISTRICT NO. 4 CONCERNING THE APPROVAL OF THE
WATER CONSERVATION PLAN
FOR A RETAIL PUBLIC WATER PROVIDER**

WHEREAS, the Nueces County Water Control and Improvement District No. 4, hereinafter referred to as the “District”, is a water control and improvement district and political subdivision in the State of Texas organized pursuant to Article 16, Chapter 59, of the Texas Constitution; and,

WHEREAS, the District pursuant to Chapters 49 and 51 of the Texas Water Code has the authority to adopt rules and regulations which govern methods, terms and conditions of water and sewer service, within its certificated area as defined in its Certificates of Convenience and Necessity issue by the Texas Commission Environmental Quality for the providing of water and sewer service to parcels or tracts of land in the District; and,

WHEREAS, the District, in order to preserve the available water supply and protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, adopted a Water Conservation Plan (the “Plan”) containing regulations and restrictions on the delivery and consumption of water within the service area of the District; and,

WHEREAS, the Plan adheres to the Water Conservation Plan adopted by the City of Corpus Christi, Texas; and,

WHEREAS, the Nueces County Water Control and Improvement District No. 4 entered into a Treated Water Supply Contract with the City of Corpus Christi (the “Contract”) on April 1, 2010 wherein the City of Corpus Christi (the “City”) agreed to provide to the District a fresh supply of potable water subject to the District abiding by the provisions of said Contract; and,

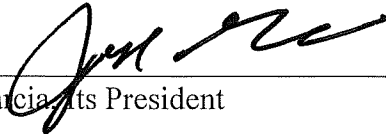
WHEREAS, the Contract provided that the City would have, as a result of rules of the Texas Commission on Environmental Quality and the Texas Water Development Board, a water conservation plan and that any entity that the City has an agreement with to provide either treated or raw water would also have a contractual obligation to adopt a water conservation plan consistent with the City’s plan.

NOW THEREFORE, BE IT RESOLVED by the Board of Directors of the Nueces County Water Control and Improvement District No. 4, that it hereby adopts a revised Water Conservation Plan drawn to be consistent with the revised Water Conservation Plan Adopted by the City of Corpus Christi.

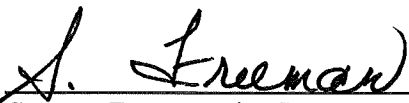
BE IT FURTHER RESOLVED that the revised Water Conservation Plan shall be effective immediately after its adoption by the Board of Directors.

DULY ADOPTED on this 23th day of July 2025.

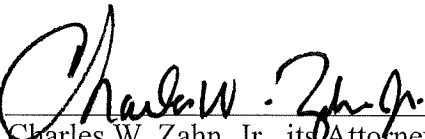
**NUECES COUNTY WATER CONTROL
AND IMPROVEMENT DISTRICT NO. 4**

By: 
Josh Garcia, its President

ATTEST:

By: 
Suzette Freeman, its Secretary

APPROVED AS TO FORM:

By: 
Charles W. Zahn, Jr., its Attorney