



NORTH HARRIS COUNTY REGIONAL WATER AUTHORITY



Water Conservation Plan

Adopted June 2, 2025



NORTH HARRIS COUNTY REGIONAL WATER AUTHORITY

Water Conservation Plan

Adopted June 2, 2025

Contents

SECTION 1	INTRODUCTION	1
1.1	Background	1
1.2	Purpose	1
1.3	Location	2
1.4	Customer Data	2
1.5	Water Use Data	2
1.6	Water Supply System	3
1.7	Wastewater Utility System	3
1.8	Water Rates	4
1.9	Water Conservation Goals	4
1.10	Water Conservation Plan Elements - Best Management Plans (BMPs) and Other Programs	4
1.11	Regional Water Planning and Coordination	6
1.12	Submittal	6
1.13	Authority and Adoption	6
1.14	Successive Customer Conservation	6

Appendices

APPENDIX A	NHCRWA WATER UTILITY PROFILE
APPENDIX B	RESOLUTION ADOPTING WATER CONSERVATION PLAN
APPENDIX C	WHOLESALE CUSTOMERS, AMOUNT OF ANNUAL CONTRACT, AND AMOUNT OF ANNUAL USE

Abbreviations

BMPs	Best Management Plans
CHCRWA	Central Harris County Regional Water Authority
GPCD	Gallons per Capita per Day
MG	Million Gallons
MGD	Million Gallons per Day
NEWPP	Northeast Water Purification Plant
NHCRWA	North Harris County Regional Water Authority
RPS	Regional Pump Station
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TEKS	Texas Essential Knowledge and Skills
TWDB	Texas Water Development Board
WCITF	Water Conservation Implementation Task Force

SECTION 1 INTRODUCTION

1.1 Background

The North Harris County Regional Water Authority (the "Authority") was created in 1999 pursuant to Article 16, Section 59 of the Texas Constitution by the passage of House Bill 2965 by the 75th Texas Legislature. The voters of the Authority confirmed its creation and elected the initial Board of Directors at an election held on January 15, 2000. The Authority is approximately bounded by US 290 on the west, the Harris County line on the north (Spring Creek), Cypress Creek Parkway and Bammel-North Houston Road on the south, and the western shores of Lake Houston on the east. The Authority covers approximately 339 square miles and currently includes approximately 762,000 residents. The Authority is empowered to secure a long-term, reliable, and quality alternative water supply for the well owners within its boundaries permitted to pump five or more million gallons of groundwater annually. The Authority's primary purpose is to develop and implement a strategy for complying with the Harris-Galveston Subsidence District's Regulatory Plan which requires a reduction in groundwater usage to no more than 20 percent of total water demand in the year 2035.

The Authority is the mid-level wholesaler in a water supply chain which starts with the City of Houston treating surface water, the Authority purchasing the water, and then selling it to retail water utilities within its boundaries. As a wholesale water supplier, the Authority is required to adopt a Water Conservation Plan (the "Plan") as required under Section 11.1271, Texas Water Code, and associated administrative rules of the Texas Commission on Environmental Quality (TCEQ) (Title 30, Texas Administrative Code, Chapter 288). These rules are set forth by the Texas Administrative Code, Title 30, Chapter 288, Subchapter A, Rule 288.5.

1.2 Purpose

The purpose of the Plan is to identify, establish, and document principles, practices, and standards to effectively:

- Conserve and use available water supplies
- Reduce water loss and waste
- Utilize water distribution system capacity
- Increase water reuse and recycling

Furthermore, the Authority is committed to developing, maintaining, and enforcing water conservation requirements for its customers, as mandated by its Rate Order. The Authority believes that the implementation of conservation measures should occur largely at the local level and is focused on encouraging and supporting initiatives by its wholesale customers.

1.3 Location

The Authority is bounded, as shown in **Exhibit 1**, by US 290 on the west, the Harris County line on the north (Spring Creek), Cypress Creek Parkway and Bammel-North Houston Road on the south, and the western shores of Lake Houston on the east.

1.4 Customer Data

The Authority operates a wholesale water system supplying water to multiple public water systems within its boundaries. The Authority does not provide retail service, nor does it provide wastewater collection or treatment for customers within its boundary. A full description of the Authority's customer information can be found in **Appendix A**, the Water Utility Profile. A summary of the information is as follows:

Population and Service Area Data

- The Authority's boundary encompasses approximately 339 square miles.
- The 2020 census population for the Authority was approximately 682,000 people.
- Currently, the Authority provides wholesale surface water supply to 61 public water systems within its boundary.
- The Authority expects growth within its service area at a rate of about 2.3% per year for the next five years. This is based on the 2020 Census population and the 2030 population estimate from the 2026 TWDB Regional Water Plan (Region H).

Active Connections

- Currently, the Authority meters all 69 connections to surface water receiving facilities for the 61 public water systems.
- Within the next four years, the Authority will be adding 82 new connections to water receiving facilities to deliver surface water purchased from the City of Houston.
- The Authority has completed the first phase of the Advanced Metering Infrastructure (AMI) project to meter, track, analyze, and compile groundwater pumpage from wells within its boundary.

High Volume Customers

- The Authority has no direct retail connections.

1.5 Water Use Data

A full description of the Authority's water use information can be found in **Appendix A**, the Water Utility Profile. A summary is as follows:

Water Accounting Data

- In the calendar years 2020 through 2024, the Authority has produced or purchased an average of approximately 790 million gallons (MG) per month for use within its boundaries.
- In the Calendar year 2024, the Authority sold a total of approximately 10,460 MG of surface water and transferred approximately an additional 538 MG to the Central Harris County Regional Water Authority (CHCRWA).

- The Authority has taken steps to account for as much water as possible through accurate metering, leak detection, condition assessments, and maintenance and repair programs. The Authority provides wholesale water which is only part of the actual water used by most of the purchasing public water systems; most of the Authority's customers own and operate additional water production facilities which they use to meet their total demand.

Projected Water Demands

- The Authority is able currently to receive and deliver 121 MGD of surface water and provide an additional 4 MGD from its wells. The Authority is currently contracted to receive up to 144 MGD from the City of Houston once the Northeast Water Purification Plant (NEWPP) expansion is completed in 2025.

1.6 Water Supply System

A full description of the Authority's water supply information can be found in **Appendix A**, the Water Utility Profile.

Water Supply Sources

- The Authority's water transmission and distribution system comprises three groundwater wells and two wholesale surface water connections from the City of Houston (COH). Surface water purchased from COH is delivered at the Abney Drive connection to two ground storage tanks with a combined capacity of 20 million gallons (MG) at the Schindewolf Regional Pump Station (RPS). Six service pumps at Schindewolf RPS, featuring a total rated capacity of 100.8 million gallons per day (MGD) and a firm capacity of 80.64 MGD, convey water from the storage tanks into the transmission system.

Similarly, surface water purchased from COH is received at the Greens Crossing Boulevard connection and directed to two ground storage tanks totaling 25 MG at the Rendl RPS. Four service pumps at Rendl RPS, with a rated capacity of 60.48 MGD and firm capacity of 40.32 MGD, then pump water from these storage tanks into the transmission network.

Additionally, three groundwater wells with a total production capacity of 4 MGD supply water to two ground storage tanks (6 MG total) at the Louetta Regional Water Plant. This facility can also receive surface water via the transmission system from Rendl RPS. Four service pumps at Louetta, rated at a combined capacity of 28.8 MGD with a firm capacity of 18.72 MGD, deliver water from these tanks into the distribution system.

A schematic illustrating the layout and key components of the Authority's system is provided in **Exhibit 2**. Enhancements completed with the 2025 system improvements have significantly increased operational reliability by establishing interconnections between transmission mains. These interconnections facilitate strategic transfer of water between pump stations, ensuring optimized utilization and redundancy of the surface water resources acquired from COH.

1.7 Wastewater Utility System

The Authority provides no wastewater collection or treatment.

1.8 Water Rates

The Authority has adopted a rate schedule that promotes conservation of groundwater and provides for a flat rate of wholesale water to its customers. The Authority's Pricing Policy is included in Section 3.01 of the Authority's Rate Order. Section 5.12(b) of the Authority's Rate Order requires each of the Authority's customers to implement a water conservation plan that satisfies 30 TAC § 288.2(a). Many customers within the Authority's boundary utilize increasing block rates to further encourage water efficiency and to promote conservation at the retail level. The Authority uses reasonable efforts to work with its retail water supply customers to promote the implementation of such rate structures.

1.9 Water Conservation Goals

The Texas Water Conservation Implementation Task Force (WCITF), established in 2004, set a statewide municipal water use goal of 140 GPCD. This target was intended to be achieved through an annual reduction of 1% in total GPCD, based on a five-year rolling average, until the 140 GPCD benchmark was met. The WCITF goal serves as a guideline for municipalities across Texas to develop and implement water conservation strategies tailored to their specific needs and circumstances. While some regions and utilities have adopted more aggressive targets, the 140 GPCD benchmark remains a foundational reference point for statewide water conservation efforts. In 2024, based on the total water demand recorded by the Authority and the estimated total served population, the average water use within the Authority's system is 128 GPCD. Since the Authority is already below the statewide target, the Authority's goal is to maintain the same efficiency in water conservation, keeping the demand at 128 GPCD or less for the next ten years.

1.10 Water Conservation Plan Elements - Best Management Plans (BMPs) and Other Programs

The Authority's Water Conservation Plan includes a combination of best management practices (BMPs) and other programs aimed at achieving the stated water conservation goals and targets.

Record Management Program

- To track the effectiveness of the instituted BMPs, the Authority's Program Manager and Operator are compiling the necessary metering data so that ongoing water usage can be compared to historical usage. The Authority authorizes the Program Manager and Operator to establish and maintain this record management system to record water delivery, water sales, and water losses.

Metering Devices

- Each well, purchase point, and wholesale distribution point is metered to measure and account for the amount of water produced from the source of supply, purchase, or wholesale delivery.
- The Authority is committed to a comprehensive metering program. This includes a program to test, repair, and replace water meters as needed. The Authority's goal for meter accuracy is to obtain consistent readings within plus or minus five percent (5%). The Authority maintains a program to identify meters that may be operating outside the expected performance range and is implementing measures, including Advanced Metering Infrastructure, to support continued accuracy overtime.

Measures to Determine and Control Unaccounted Water

- The Authority is committed to measures to determine and control unaccounted uses of water through periodic visual inspections along distribution lines and ongoing audits of the water system to determine illegal connections, abandoned services, etc.

Leak Detection and Repair

- The Authority is committed to a program of leak detection and repair. Operators for the water system are instructed to address reports of leaks in a manner to limit the loss of unbillable water. Additionally, the Program Manager and Operator conduct periodic inspections to identify potential leaks in the distribution system network.

Reservoir System Operating Plan

- The Authority does not own or operate any reservoirs.

Education Programs

- The Authority maintains their website (<http://www.nhcrwa.com>) that contains water conservation information and participates in the Save Water Texas Coalition site, community events, and related programs.
- The Authority actively promotes water efficiency on social media utilizing various platforms including Facebook, LinkedIn, Nextdoor, Instagram, X, and YouTube. ([NHCRWA - Saving Water is as easy as turning off a light switch](#)).

Alternative Water (Reuse Water)

- On January 8, 2018, the Authority Board passed a resolution adopting its Second Amended Alternative Water Use Incentive Program. The program authorized the Authority to enter into a written contract with the owner of a source of alternative water and/or a person engaging in Alternative Water Use. Upon completion of construction and placing in service an Alternative Water Use System, the Authority will issue credits against Authority Fees otherwise owed to the Authority to the Owner and/or Purchaser in the amount of \$25,000 or 10% of the total capital cost of the System, whichever is greater. Thereafter, the Authority will issue Alternative Water Use Credits for metered Alternative Water Use at a rate equal to one-half (1/2) of the rate then being charged by the Authority for "Water Pumped from a Non-Exempt Well," as such rate is stated in the Authority's then-current Pricing Policy. Alternative Water Use Credits will be awarded up to, but not exceeding, the Capital Cost of the System. Alternative Water Use Credits will be issued for 20 years from the date of the Contract or until the total amount of credits issued equal the total capital cost of the System, whichever comes first.
- As of May 5, 2025, the Authority has entered into Contracts for 14 such Systems, with an approximate total Capital Cost of \$26,000,000. These Systems will provide alternative water for 21 utility districts and 5 golf courses within the Authority.
- The Authority's alternative water program produced over 415 MG of water reuse in 2024 within the service area.

1.11 Regional Water Planning and Coordination

The Authority is located within the Region H Water Planning Area. The Authority is in continuous contact with the Region H Water Planning Group during each five (5) year planning cycle of the Region H Water Plan. In accordance with the Texas Administrative Code, Section 288.5 (1) (I), the Authority will review and update its Water Conservation Plan every five (5) years to coincide with the adoption of each Regional H Water Plan and continue to align with the regional strategies. The Authority will submit a copy of the Plan to Region H.

1.12 Submittal

The Authority will submit a copy of this Plan and any revised versions of the Plan to the Executive Director, Texas Commission on Environmental Quality (the "TCEQ") and the Executive Administrator, Texas Water Development Board. The City of Houston will also be provided a copy of this Plan.

1.13 Authority and Adoption

The Board of Directors of the Authority will adopt this Water Conservation Plan by Resolution during their Board meeting on June 2, 2025. The final version of the Water Conservation Plan will include a copy of the Resolution as **Appendix B**. The Authority's General Manager, or his designee, is authorized by the Board to implement and enforce this Plan.

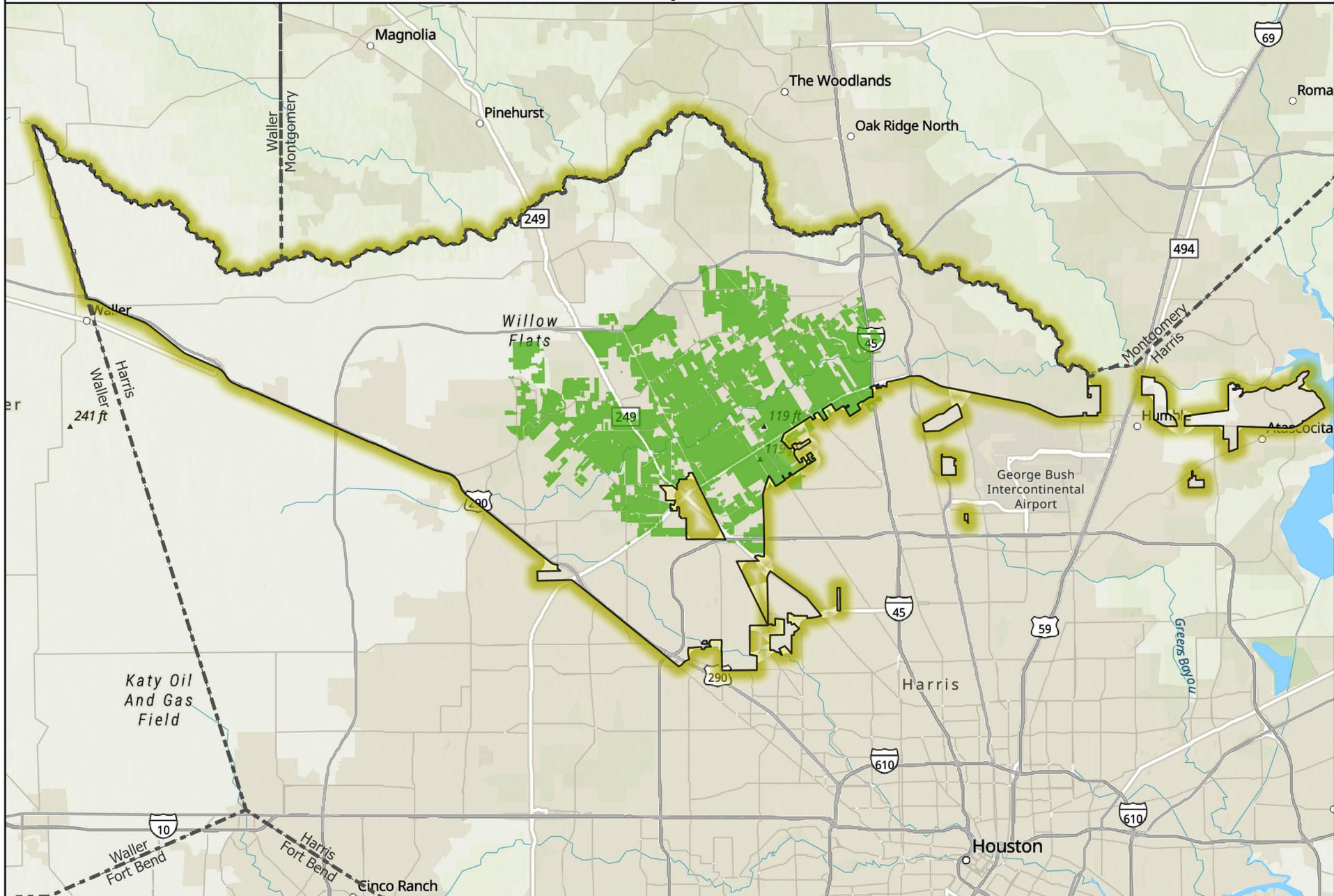
1.14 Successive Customer Conservation

Section 5.12 (b) of the Authority's Rate Order requires (1) any water system which receives water from the Authority to have a water conservation plan and (2) any water system receiving water from the Authority which intends to sell a portion of that water to a wholesale customer shall require the wholesale customer to also implement a water conservation plan. The water conservation plan shall be in compliance with all applicable rules of the TCEQ.

In addition, in accordance with Texas Administrative Code, 288.5(1)(F), every water supply contract entered into or renewed by the Authority, including contract extensions, will require that each successive wholesale customer develops and implements a Water Conservation Plan or water conservation measures using applicable elements of Chapter 288, Texas Administrative Code. If the customer intends to resell the water, then any contracts for such reselling must require all downstream customers to have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with applicable provisions of Chapter 288, Texas Administrative Code.

NHCRWA Boundary and Service Area

APRIL 2025 /CAROLLO



Date Updated on: 4/23/2025 7:08 AM

Exhibit 1

Data Source: NHCRWA/ESRI

Disclaimer: Features shown in this figure are for planning purposes and represent approximate locations.

Engineering and/or survey accuracy is not implied.



-  Current Service Area (2025)
-  County Boundary
-  NHCRWA Boundary



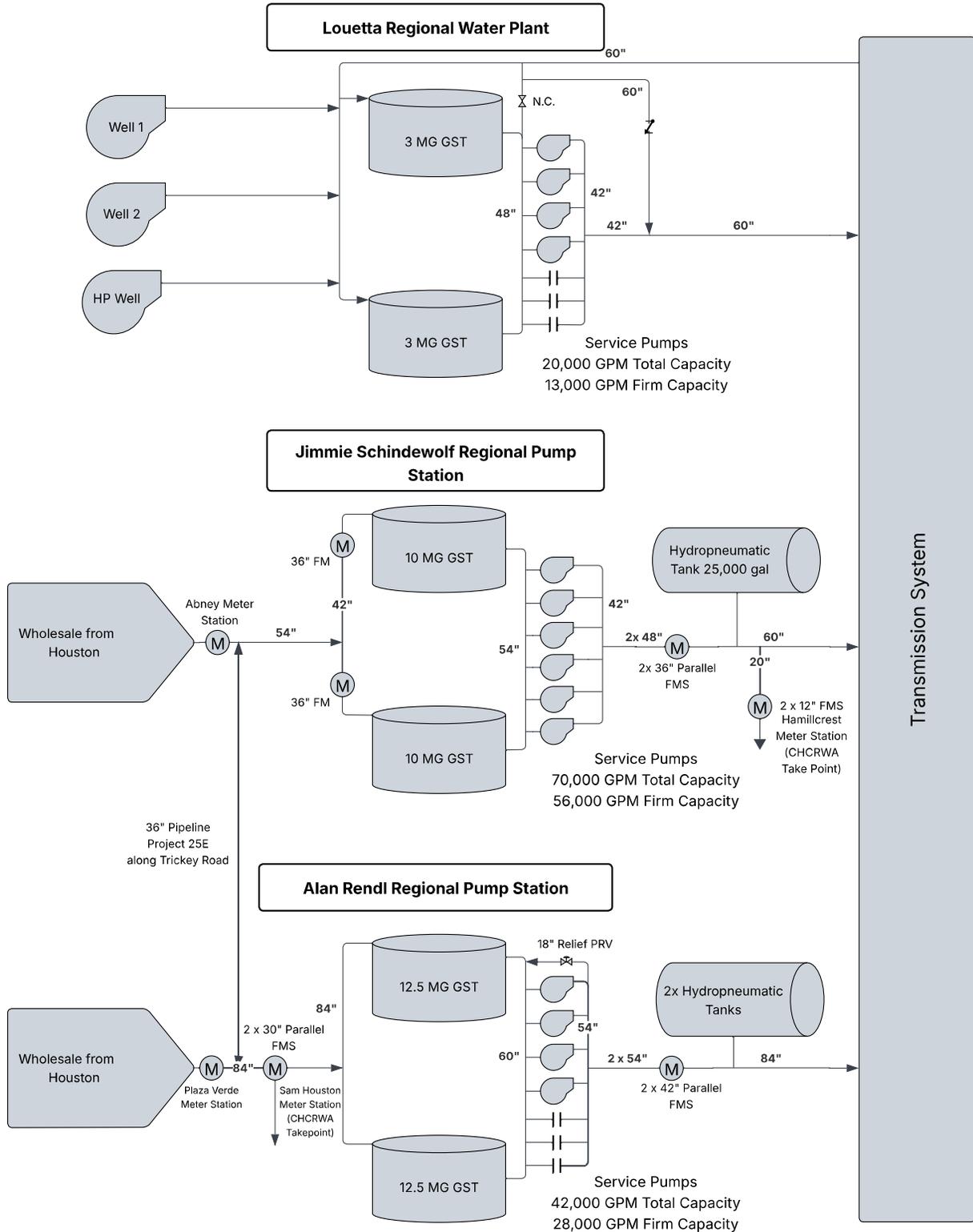


Exhibit 2 NHCRWA Transmission and Distribution System Schematic

APPENDIX A

NHCRWA WATER UTILITY PROFILE





Texas Commission on Environmental Quality
Water Availability Division
 MC-160, P.O. Box 13087 Austin, Texas 78711-
 3087 Telephone (512) 239-4691, FAX (512) 239-
 2214

**Utility Profile and Water Conservation Plan
 Requirements for Wholesale Public Water Suppliers**

This form is provided to assist wholesale public water suppliers in water conservation plan development. If you need assistance in completing this form or in developing your plan, please contact the Conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4691.

Water users can find best management practices (BMPs) at the Texas Water Development Board's website <http://wyvw.twdb.texas.gov/conservation/BMPs/index.asp>. The practices are broken out into sectors such as Agriculture, Commercial and Institutional, Industrial, Municipal and Wholesale. BMPs are voluntary measures that water users use to develop the required components of Title 30, Texas Administrative Code, Chapter 288. BMPs can also be implemented in addition to the rule requirements to achieve water conservation goals.

Contact Information

Name: North Harris County Regional Water Authority

Address: 3648 Cypress Creek Parkway, Suite 110, Houston, TX, 77068

Telephone Number: (281) 440-3924 Fax: (281) 440-4104

Water Right No.(s): None

Regional Water Planning Group: H

Person responsible for implementing conservation program: Jun Chang, P.E., D.WRE Phone: (281) 440-3924

Form Completed By: Amber Batson, P.E.

Title: Associate Vice President

Signature:  Date: 6 / 4 / 25

A water conservation plan for wholesale public water suppliers must include the following requirements (as detailed in 30 TAC Section 288.5). If the plan does not provide information for each requirement, you must include in the plan an explanation of why the requirement is not applicable.

Utility Profile

1. WHOLESALE SERVICE AREA POPULATION AND CUSTOMER DATA

A. Population and Service Area Data:

1. Service area size (in square miles):

339 (Please attach a copy of service-area map) **See Exhibit 1.**

2. Current population of service

area: Estimated 2025 population is 762,000.

3. Current population

served for: a. Water- 293,566

b. Wastewater - None

4. Population served for previous five years:

<i>Year</i>	<i>Population</i>
2020	284,731
2021	286,939
2022	289,148
2023	291,357
2024	293,566

5. Projected population for service area in the following decades:

<i>Year</i>	<i>Population</i>
2030	842,307
2040	861,048
2050	886,112
2060	898,318
2070	927,857

6. List source or method for the calculation of current and projected population size.

Population estimate from the 2026 Texas Water Development Board (TWDB) Regional Water Plan. While the 2030-2070 projected population shown above reflects the total population within the Authority’s boundary, only that population necessary to meet groundwater reduction requirements will actually be served by the Authority.

B. Customer Data

List (or attach) the names of all wholesale customers, amount of annual contract, and amount of annual use for each customer for the previous year:

See Appendix C for table with list of customers, contracted amounts, and water delivered.

II. WATER USE DATA FOR SERVICE AREA

A. Water Delivery

Indicate if the water provided under wholesale contracts is treated or raw water and the annual amounts for the previous five years (in acre feet):

<i>Year*</i>	<i>Treated Water</i>	<i>Raw Water</i>
2020	29,337.915	0
2021	26,210.028	0
2022	29,827.799	0
2023	30,448.411	0
2024	32,111.667	0
Totals	147,935.820	0

*Totals based on calendar year

B. Water Accounting Data

1. Total amount of water diverted at the point of diversion(s) for the previous five years (in acre-feet) for all water uses:

<i>Year</i>	2020	2021	2022	2023	2024
<i>Month</i>					
January	1,760.292	1,731.466	1,900.409	1,964.475	2,102.098
February	1,649.663	1,434.263	1,648.899	1,657.139	1,854.697
March	2,256.416	2,008.336	1,993.918	2,499.793	2,104.347
April	2,209.255	2,311.711	2,500.204	2,327.509	2,650.527
May	2,672.466	2,083.429	2,939.257	2,579.838	2,521.924
June	2,983.280	2,603.258	3,206.302	2,705.497	2,478.554
July	2,708.797	2,289.263	2,873.598	3,065.354	2,607.586
August	3,043.532	2,861.515	2,725.451	3,043.273	3,330.026
September	2,656.985	2,509.291	2,726.675	2,898.566	3,504.698
October	2,712.739	2,162.538	2,892.410	2,844.600	3,884.720
November	2,731.211	2,263.122	2,316.375	2,474.800	2,647.294
December	1,953.277	1,951.838	2,104.303	2,387.567	2,475.256
Totals	29,337.915	26,210.028	29,827.799	30,448.411	32,111.667

2. Wholesale **population** served and total amount of water diverted for **municipal use** for the previous five years (in acre-feet):

<i>Year</i>	<i>Total Population Served</i>	<i>Total Annual Water Diverted for Municipal Use</i>
2020	284,731	29,337.915
2021	286,939	26,210.028
2022	289,148	29,827.799
2023	291,357	30,448.411
2024	293,566	32,111.67

C. Projected Water Demands

If applicable, project and attach water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirements from such growth.

The Authority supplies only supplemental water to most districts. Demand on the Authority's water supply is based solely on the water necessary to reduce groundwater consumption within the Authority's boundaries. Based on groundwater reduction targets set by the Harris-Galveston Subsidence District, it is projected that the Authority will need to provide surface water as portrayed below.

<i>Year</i>	<i>Groundwater Reduction Percentage</i>	<i>Projected Total Demand (MGD)</i>	<i>Projected SW Demand (MGD)</i>
2025	60%	94	56
2035	80%	103	82

III. WATER SUPPLY SYSTEM DATA

A. Projected Water Demands

List all current water supply sources and the amounts authorized (in acre feet) with each.

<i>Water Type</i>	<i>Source</i>	<i>Amount Authorized</i>
<i>Surface Water</i>	<i>N/A</i>	<i>0</i>
<i>Groundwater</i>	<i>3 Wells in Gulf Coast Aquifer</i>	<i>4,480.575 (Maximum)</i>
<i>Other</i>	<i>Contract City of Houston - Lake Houston</i>	<i>161,300.51</i>

B. Treatment and Distribution System (if providing treated water)

1. Design daily capacity of system
(MGD):121
2. Storage capacity (MGD):
 - a. Elevated - 0
 - h. Ground – 51
3. Please attach a description of the water system. Include the number of treatment plants, wells, and storage tanks

The Authority’s water transmission and distribution system comprises three groundwater wells and two wholesale surface water connections from the City of Houston (COH). Surface water purchased from COH is delivered at the Abney Drive connection to two ground storage tanks with a combined capacity of 20 million gallons (MG) at the Schindewolf Regional Pump Station (RPS). Six service pumps at Schindewolf RPS, featuring a total rated capacity of 100.8 million gallons per day (MGD) and a firm capacity of 80.64 MGD, convey water from the storage tanks into the transmission system. Similarly, surface water purchased from COH is received at the Greens Crossing Boulevard connection and directed to two ground storage tanks totaling 25 MG at the Rendl RPS. Four service pumps at Rendl RPS, with a rated capacity of 60.48 MGD and firm capacity of 40.32 MGD, then pump water from these storage tanks into the transmission network.

Additionally, three groundwater wells with a total production capacity of 4 MGD supply water to two ground storage tanks (6 MG total) at the Louetta Regional Water Plant. This facility can also receive surface water via the transmission system from Rendl RPS. Four service pumps at Louetta, rated at a combined capacity of 28.8 MGD with a firm capacity of 18.72 MGD, deliver water from these tanks into the distribution system.

A schematic illustrating the layout and key components of the Authority’s system is provided in **Exhibit 2**. Enhancements completed with the 2025 system improvements have significantly increased operational reliability by establishing interconnections between transmission mains. These interconnections facilitate strategic transfer of water between pump stations, ensuring optimized utilization and redundancy of the surface water resources acquired from COH.

IV. WASTEWATER SYSTEM DATA

A. Wastewater System Data (if applicable)

The North Harris County Regional Water Authority provides no wastewater service.

1. Design capacity of **wastewater** treatment plant(s) (MGD):
Not Applicable
2. Briefly describe the wastewater system(s) of the area serviced by the wholesale public water supplier. Describe how treated wastewater is disposed. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and the receiving stream if wastewater is discharged.
Not Applicable

B. Wastewater Data for Service Area (if applicable) – Not Applicable

1. Percent of water service area served by wastewater system: %

2. Monthly volume treated for previous five years (in 1,000 gallons):

<i>Year</i>	2020	2021	2022	2023	2024
<i>Month</i>					
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Totals					

Water Conservation Plan

In addition to the description of the wholesaler's service area (profile from above), a water conservation plan for a wholesale public water supplier must include, at a minimum, additional information as required by Title 30, Texas Administrative Code, Chapter 288.5. Note: If the water conservation plan does not provide information for each requirement an explanation must be included as to why the requirement is not applicable.

A. Specific, (Quantified 5 & 10-Year Targets)

The water conservation plan must include specific, quantified 5-year and 10-year targets for water savings including, where appropriate, target goals for municipal use in gallons per capita per day for the wholesaler's service area, maximum acceptable water loss, and the basis for the development of these goals. Note that the goals established by a wholesale water supplier under this subparagraph are not enforceable. These goals must be updated during the 5-year review and submittal.

B. Measuring and Accounting for Diversions

The water conservation plan must include a description as to which practice(s) and/or device(s) will be utilized to measure and account for the amount of water diverted from the source(s) of supply.

C. Record Management Program

The water conservation plan must include a monitoring and record management program for determining water deliveries, sales, and losses.

D. Metering/Leak-Detection and Repair Program

The water conservation plan must include a program of metering and leak detection and repair for the wholesaler's water storage, delivery, and distribution system.

E. Contract Requirements for Successive Customer Conservation

The water conservation plan must include a requirement in every water supply contract entered into or renewed after official adoption of the water conservation plan, and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements of Title 30 TAC Chapter 288. If the customer intends to resell the water, then the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of this chapter.

F. Reservoir Systems Operations Plan

The water conservation plan must include a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river basin. The reservoir systems operations plan shall include optimization of water supplies as one of the significant goals of the plan.

G. Enforcement Procedure and Official Adoption

The water conservation plan must include a means for implementation and enforcement, which shall be evidenced by a copy of the **ordinance**, rule, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and a description of the authority by which the water supplier will implement and enforce the conservation plan.

H. Coordination with the Regional Water Planning Group(s)

The water conservation plan must include documentation of coordination with the regional water planning groups for the service area of the wholesale water supplier in order to ensure consistency with the appropriate approved regional water plans.

Example statement to be included within the water conservation plan:

The service area of the _____ (name of water supplier) is located within the _____ (name of regional water planning area or areas) and _____ (name of water supplier) has provided a copy of this water conservation plan to the _____ (planning group or groups).

I. Plan Review and Update

A wholesale water supplier shall review and update its water conservation plan, as appropriate based on an assessment of previous 5-year and 10-year targets and any other new or updated information. A wholesale water supplier shall review and update the next revision of its water conservation plan no later than May 1, 2009, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

V. ADDITIONAL CONSERVATION STRATEGIES

Any combination of the following strategies shall be selected by the water wholesaler, in addition to the minimum requirements of 30 TAC §288.5(1), if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

1. Conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates;
2. A program to assist agricultural customers in the development of conservation, pollution prevention and abatement plans;
3. A program for reuse and/or recycling of wastewater and/or graywater;
4. Any other water conservation practice, method, or technique which the wholesaler shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

VI. WATER CONSERVATION PLANS SUBMITTED WITH A WATER RIGHT APPLICATION FOR NEW OR ADDITIONAL STATE WATER

Water Conservation Plans submitted with a water right application for New or Additional State Water must include data and information which support the

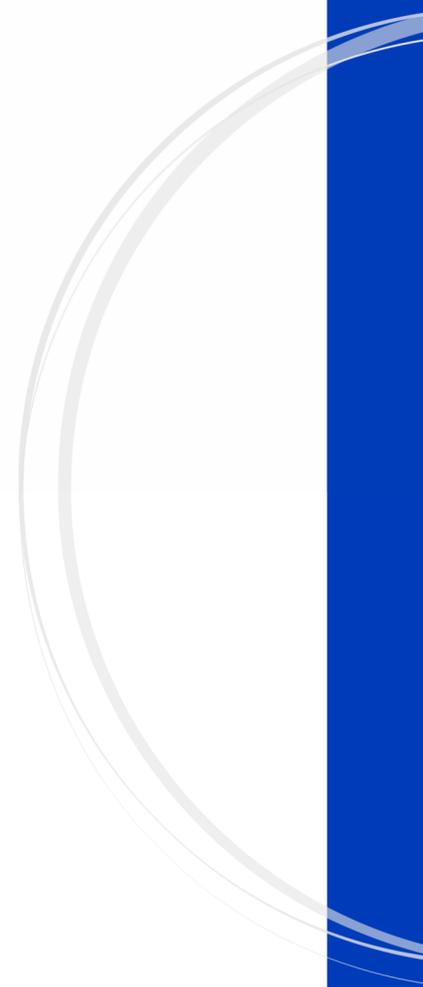
applicant's proposed use of water with consideration of the water conservation goals of the water conservation plan;

1. evaluates conservation as an alternative to the proposed appropriation; and
2. evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Additionally, it shall be the burden of proof of the applicant to demonstrate that no feasible alternative to the proposed appropriation exists and that the requested amount of appropriation is necessary and reasonable for the proposed use.

APPENDIX B

RESOLUTION ADOPTING WATER CONSERVATION PLAN



CERTIFICATE FOR RESOLUTION

THE STATE OF TEXAS §
COUNTY OF HARRIS §
NORTH HARRIS COUNTY REGIONAL WATER AUTHORITY §

I, the undersigned Secretary of the Board of Directors (the "Board") of the North Harris County Regional Water Authority (the "Authority"), hereby certify as follows:

1. The Board convened in regular session, open to the public, on the 2nd day of June, 2025, at the Authority's Office, 3648 Cypress Creek Pkwy., Suite 110, Houston, Harris County, Texas 7706, and the roll was called of the members of the Board, to-wit:

Melissa Rowell	President
Kelly P. Fessler	Vice President
Ron Graham	Secretary
David Barker	Treasurer
Mark Ramsey	Director

All members of the Board were present except Director Mark Ramsey thus constituting a quorum. Whereupon, among other business, the following was transacted at such meeting:

RESOLUTION ADOPTING WATER CONSERVATION PLAN

was duly introduced for the consideration of the Board. It was then duly moved and seconded that such Resolution be adopted; and, after due discussion, such motion, carrying with it the adoption of said Resolution, prevailed and carried by the following vote:

AYES: 4 NOES: 0 ABSTAIN: 0

2. A true, full, and correct copy of the aforesaid Resolution adopted at the meeting described in the above and foregoing paragraph is attached to and follows this Certificate; such Resolution has been duly recorded in said Board's minutes of such meeting; the above and foregoing paragraph is a true, full, and correct excerpt from the Board's minutes of such meeting pertaining to the adoption of such Resolution; the persons named in the above and foregoing paragraph are the duly chosen, qualified, and acting officers and members of the Board as indicated therein; each of the officers and members of the Board was duly and sufficiently notified officially and personally, in advance of the time, place, and purpose of such meeting and that such Resolution would be introduced and considered for adoption at such meeting and each of such officers and members consented, in advance, to the holding of such meeting for such purpose; such meeting was open to the public, as required by law, and public notice of the time, place and purpose of such meeting was given as required by Chapter 551, Texas Government Code, as amended, and Section 49.063, Texas Water Code, as amended.

SIGNED AND SEALED the 2nd day of June, 2025.



Secretary, Board of Directors



RESOLUTION ADOPTING WATER CONSERVATION PLAN

THE STATE OF TEXAS §

COUNTY OF HARRIS §

NORTH HARRIS COUNTY REGIONAL WATER AUTHORITY §

WHEREAS, the North Harris County Regional Water Authority (the "Authority") is a governmental agency and body politic and corporate of the State of Texas created and operating pursuant to Chapter 8888, Texas Special Districts Local Laws Code (the "Act"), to accomplish the purposes provided by Section 59, Article XVI, Texas Constitution; AND

WHEREAS, the Authority was created to, among other things, accomplish the purposes of Article XVI, Section 59 of the Texas Constitution, including the reduction of groundwater withdrawals, the conservation, preservation, protection, recharge and prevention of waste of groundwater, and of groundwater reservoirs or their subdivisions, and the control of subsidence cause by withdrawal of water from those groundwater reservoirs or their subdivisions; and

WHEREAS, the Board of the Authority has carefully considered prior Water Conservation Plans adopted by the Authority, the current water conditions in the Authority and area-wide and has determined that adoption of an updated Water Conservation Plan (the "Plan") is necessary to identify and establish principles, practices and standards to effectively conserve and efficiently use available water supplies and water distribution system capacity; and

WHEREAS, the Board of the Authority desires to evidence its approval of the Plan and to adopt the Plan as the official policy of the Authority.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE NORTH HARRIS COUNTY REGIONAL WATER AUTHORITY THAT:

Section 1. Findings. The recitals and facts set forth above are hereby found to be true and correct and are incorporated by reference as though fully set forth herein.

Section 2. Approval of the Plan. The Board of the Authority hereby approves and adopts the Plan as set forth on Exhibit "A" to this Resolution, and the provisions of the Plan shall be implemented immediately and enforced as rules of the Authority.

Section 3. Wholesale Water Customers. The Authority shall require that each successive wholesale customer of the Authority, develop and implement a water conservation plan or water conservation measures in compliance with all applicable rules of the Texas Commission on Environmental Quality (the "TCEQ"). This requirement will also extend to each successive wholesale customer in the resale of water.

Section 4. Submission. The Authority shall submit the Plan to the Executive Administrator of the TWBD and to the Region H Water Planning Group, with a copy also being provided to the appropriate officer/utility official of the City of Houston.

}

Section 5. Five (5) Year Review. The Authority shall review and update the Plan by December 2025 and every five (5) years thereafter, or more frequently, as may be appropriate, based on an assessment of previous five (5) year and ten (10) year targets and any other new or updated information.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK.]

APPROVED and ADOPTED this 2nd day of June, 2025.

Melina Rowell

President, Board of Directors

ATTEST:

Ron Tuhar

Secretary, Board of Directors



APPENDIX C

WHOLESALE CUSTOMERS, AMOUNT OF ANNUAL CONTRACT, AND AMOUNT OF ANNUAL USE



*Active Public Water Systems as of December 31st, 2024

Wholesale Customer*	Contracted Amount [acre-ft]	Previous Year Amount of Water Delivered [acre-ft]
Aqua Texas (Candlelight Hills)	No Contract	238.394
Bammel UD	No Contract	379.240
Bilma PUD	234.11	356.672
Bridgestone MUD	493.983	1825.464
Champions MUD	No Contract	589.545
Charterwood MUD	No Contract	506.264
CNP UD	No Contract	694.049
Cy-Champ PUD	No Contract	712.490
Cypress Creek UD	No Contract	354.060
Cypress Forest PUD	No Contract	1155.723
Cypress Klein UD	No Contract	674.927
Emerald Forest UD	No Contract	712.058
Faulkey Gully MUD	No Contract	826.481
Fountainhead MUD	672.085	519.949
Grant Road PUD	No Contract	408.416
Harris County MUD 104	No Contract	335.598
Harris County MUD 16	734.813	562.262
Harris County MUD 18	No Contract	363.721

Wholesale Customer*	Contracted Amount [acre-ft]	Previous Year Amount of Water Delivered [acre-ft]
Harris County MUD 191	235.23	401.557
Harris County MUD 202	No Contract	229.776
Harris County MUD 211/233	280.036	233.122
Harris County MUD 230	980.125	725.251
Harris County MUD 24	No Contract	1037.970
Harris County MUD 275	No Contract	112.220
Harris County MUD 286	No Contract	605.748
Harris County MUD 367/383	1344.171	738.100
Harris County MUD 368	No Contract	984.967
Harris County MUD 383	No Contract	897.562
Harris County MUD 44	No Contract	252.133
Harris County MUD 468	1444.984	411.810
Harris County MUD 86	No Contract	551.196
Harris County WCID 109	No Contract	456.002
Harris County WCID 110	No Contract	692.405
Harris County WCID 114	No Contract	739.260
Harris County WCID 116	No Contract	517.156
Harris County WCID 119	No Contract	592.761

Wholesale Customer*	Contracted Amount [acre-ft]	Previous Year Amount of Water Delivered [acre-ft]
Harris County WCID 132	No Contract	329.880
Harris County WCID 132/Cypresswood UD	No Contract	358.762
Harris County WCID 91	No Contract	354.609
Heatherloch MUD	907.315	571.064
Klein PUD	No Contract	369.454
Kleinwood MUD	No Contract	447.004
Louetta North PUD	No Contract	379.725
Malcomson Road UD	750.495	1113.148
Mills Road MUD	No Contract	328.858
Northwest Harris County MUD 20	No Contract	455.741
Northwest Harris County MUD 21 and 22	369.647	607.335
Northwest Harris County MUD 23	672.085	371.270
Northwest Harris County MUD 24	No Contract	205.268
Northwest Harris County MUD 30	No Contract	464.098
Northwest Harris County MUD 32	No Contract	259.222
Northwest Harris County MUD 36	No Contract	417.954
Northwest Harris County MUD 5	No Contract	1271.159
Northwest Harris County MUD 6	No Contract	299.100

Wholesale Customer*	Contracted Amount [acre-ft]	Previous Year Amount of Water Delivered [acre-ft]
Ponderosa Forest UD	168.021	355.285
Prestonwood Forest UD	No Contract	583.883
Spring Creek Forest PUD	No Contract	159.137
Terranova West MUD	No Contract	463.902
Westador MUD	No Contract	551.497