

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

Fill out this form as completely as possible.  
If a field does not apply to your entity, leave it blank.

### CONTACT INFORMATION

Name of Utility: City of River Oaks

Public Water Supply Identification Number (PWS ID): 2200069

Certificate of Convenience and Necessity (CCN) Number: CN600648224

Surface Water Right ID Number: 352

Wastewater ID Number: N/A

Completed By: Gordon Smith Title: Public Works Director

Address: 4900 River Oaks Blvd City: River Oaks Zip Code: 76114

Email: gsmith@riveroakstx.com Telephone Number: 817-626-5421 X 322

Date: April 23, 2021

Regional Water Planning Group: C [Map](#)

Groundwater Conservation District: N/A [Map](#)

Check all that apply:



Received financial assistance of \$500,000 or more from TWDB



Have 3,300 or more retail connections



Have a surface water right with TCEQ

## Section I: Utility Data

### A. Population and Service Area Data

- Current service area size in square miles: 2  
(Attach or email a copy of the service area map.)
- Provide 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 Service
2016	7,427	0	7,427
2017	7,427	0	7,427
2018	7,427	0	7,427
2019	7,427	0	7,427
2020	7,600	0	7,600

- Provide the 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 Service
2020	7,600		7,600
2030	8,283		8,283
2040	8,706		8,706
2050	9,151		9,151
2060	9,619		9,619

- Describe the source(s)/method(s) for estimating current and projected populations.

2016 through 2019- 2010 Census was used  
2020 North Central Texas Council of Governments project population was used.  
River Oaks is 99% built out and an estimate of 0.05% increase every 10 years thereafter was used based on redevelopment to multi-family structures in certain areas of the city would be realistic.

## B. System Input

Provide system input data for the previous five years.

Total System Input = Self-supplied + Imported – Exported

Year	Self-supplied Water in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2016	225,546,200	0	0	225,546,200	83
2017	227,497,000	3,860,000	0	231,357,000	85
2018	120,560,000	85,966,000	0	206,526,000	76
2019	98,157,000	126,260,000	0	224,417,000	83
2020	150,457,000	76,250,000	0	226,707,000	82
<b>Historic 5-year Average</b>	164,443,440	58,467,200	0	222,910,640	82

## C. Water Supply System (Attach description of water system)

- Designed daily capacity of system 2,660,000 gallons per day.
- Storage Capacity:  
Elevated 500,000 gallons  
Ground 1,440,000 gallons
- List all current water supply sources in gallons.

Water Supply Source	Source Type*	Total Gallons
Lake Worth	Surface	2,660,000
City of Fort Worth	Contract	1,080,000
	Choose One	
	Choose One	
	Choose One	
	Choose One	

\*Select one of the following source types: *Surface water, Groundwater, or Contract*

- If surface water is a source type, do you recycle backwash to the head of the plant?  
☒ Yes 60,000 estimated gallons per day  
☐ No

## D. Projected Demands

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

Year	Population	Water Demands (gallons)
2021	7,668	228,891,160
2022	7,736	231,075,320
2023	7,804	233,259,480
2024	7,872	235,443,640
2025	7,940	237,627,800
2026	8,008	239,811,960
2027	8,076	241,996,120
2028	8,144	244,180,280
2029	8,212	246,364,440
2030	8,283	248,644,960

2. Describe sources of data and how projected water demands were determined. Attach additional sheets if necessary.

Based on River Oaks is 99 Percent built out and with a history of reduced consumption largely ,due to water conserving fixtures, conservation plan and drought contingency plans; its not unreasonable to calculate that based on the historical values that the gallons per person per day of 88 gallons will be a good constant calculation to project future demands. The formula used to calculate water demand above is as follows.

2020 Actual gallons used 226,707,000 + (68x365x88) "2,184,160 gallons" =228,891,160  
 and each year after until 2030 where 2,280,520 was used due to population calculation was increased from 68 to 71.

## E. High Volume Customers

1. List the annual water use, in gallons, for the five highest volume **RETAIL customers**. Select one of the following water use categories to describe the customer; choose Residential, Industrial, Commercial, Institutional, or Agricultural.

Retail Customer	Water Use Category*	Annual Water Use	Treated or Raw
Roy's #10 Wash n Dry	Commercial	593,710	Treated
Quick Wash	Commercial	381,823	Treated
River Ranch Apartments	Residential	370,219	Treated
CISD Irrigation	Agricultural	310,430	Treated
Max Gonzalez	Residential	185,800	Treated

\*For definitions on recommended customer categories for classifying customer water use, refer to the online [Guidance and Methodology for Reporting on Water Conservation and Water Use](#).

2. If applicable, list the annual water use for the five highest volume **WHOLESALE customers**. Select one of the following water use categories to describe the customer; choose Municipal, Industrial, Commercial, Institutional, or Agricultural.

Wholesale Customer	Water Use Category*	Annual Water Use	Treated or Raw
none	Choose One		Choose One
	Choose One		Choose One
	Choose One		Choose One
	Choose One		Choose One
	Choose One		Choose One

\*For definitions on recommended customer categories for classifying customer water use, refer to the online [Guidance and Methodology for Reporting on Water Conservation and Water Use](#).

## F. Utility Data Comment Section

Provide additional comments about utility data below.

The top two water customers are for a laundry mats. River Ranch Apartments is an 80 unit complex and Max Gonzalez is a 30 unit apartment complex. CISD is irrigation to school football field and is largely due to landscaping the field.

## Section II: System Data

### A. Retail Connections

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

Water Use Category*	Active Retail Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Residential – Single Family	2,704	0	2,704	89%
Residential – Multi-family (units)	5	121	126	4%
Industrial	0		0	0%
Commercial	200		200	7%
Institutional			0	0%
Agricultural	23		23	1%
<b>TOTAL</b>	<b>2,932</b>	<b>121</b>	<b>3,053</b>	

\*For definitions on recommended customer categories for classifying customer water use, refer to the online [Guidance and Methodology for Reporting on Water Conservation and Water Use](#).

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

Water Use Category*	Net Number of New Retail Connections				
	2016	2017	2018	2019	2020
Residential – Single Family	8	6	10	8	6
Residential – Multi-family (units)	0	0	0	0	0
Industrial	0	0	0	0	0
Commercial	0	2	4	1	4
Institutional	0	0	0	0	0
Agricultural	0	0	0	0	0
<b>TOTAL</b>	<b>8</b>	<b>8</b>	<b>14</b>	<b>9</b>	<b>10</b>

\*For definitions on recommended customer categories for classifying customer water use, refer to the online [Guidance and Methodology for Reporting on Water Conservation and Water Use](#).

## B. Accounting Data

For the previous five years, enter the number of gallons of RETAIL water provided in each major water use category.

Water Use Category*	Total Gallons of Retail Water				
	2016	2017	2018	2019	2020
Residential - Single Family	147,665,685	145,049,030	166,794,276	169,945,891	175,474,046
Residential – Multi-family	5,250,352	6,871,360	7,240,019	6,595,760	6,251,567
Industrial	0	0	0	0	0
Commercial	29,846,601	33,330,955	26,348,599	19,204,286	19,669,909
Institutional	0	0	0	0	3,009,159
Agricultural	5,046,898	306,680	0	363,977	6,216,000
<b>TOTAL</b>	<b>187,809,536</b>	<b>185,558,025</b>	<b>200,382,894</b>	<b>196,109,914</b>	<b>210,620,681</b>

\*For definitions on recommended customer categories for classifying customer water use, refer to the online [Guidance and Methodology for Reporting on Water Conservation and Water Use](#).

## C. Residential Water Use

For the previous five years, enter the residential GPCD for single family and multi-family units.

Water Use Category*	Residential GPCD				
	2016	2017	2018	2019	2020
Residential - Single Family	57	56	65	66	68
Residential – Multi-family	38	50	53	48	45

## D. Annual and Seasonal Water Use

- For the previous five years, enter the gallons of treated water provided to RETAIL customers.

Month	Total Gallons of Treated Retail Water				
	2016	2017	2018	2019	2020
January	16,296,000	15,733,000	15,552,000	14,860,000	13,340,000
February	15,032,100	14,042,000	14,566,000	13,000,000	13,380,000
March	15,695,400	17,387,000	16,218,000	16,091,000	15,479,000
April	16,307,100	16,934,000	12,302,000	16,014,000	15,795,000
May	16,369,800	21,445,000	14,598,000	22,035,000	21,092,000
June	20,137,000	21,031,000	15,998,000	9,937,000	23,937,000
July	25,748,300	24,200,000	18,684,000	25,387,000	24,436,000
August	26,142,100	22,715,000	24,081,000	26,150,000	29,332,000
September	20,495,700	23,463,000	23,917,000	25,884,000	17,920,000
October	19,659,800	19,914,000	21,104,000	23,618,000	20,118,000
November	16,942,700	17,814,000	15,133,300	17,550,000	16,131,000
December	16,720,200	16,679,000	11,762,000	17,325,000	15,297,000
<b>TOTAL</b>	<b>225,546,200</b>	<b>231,357,000</b>	<b>203,915,300</b>	<b>227,851,000</b>	<b>226,257,000</b>

2. For the previous five years, enter the gallons of raw water provided to RETAIL customers.

Month	Total Gallons of Raw Retail Water				
	2016	2017	2018	2019	2020
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
<b>TOTAL</b>	0	0	0	0	0

3. Summary of seasonal and annual water use.

Water Use	Seasonal and Annual Water Use					Average in Gallons
	2016	2017	2018	2019	2020	
Summer Retail (Treated + Raw)	72,027,400	67,946,000	58,763,000	61,474,000	77,705,000	67,583,080 5yr Average
TOTAL Retail (Treated + Raw)	225,546,200	231,357,000	203,915,300	227,851,000	226,257,000	222,985,300 5yr Average

## E. Water Loss

Provide Water Loss data for the previous five years.

Water Loss GPCD = [Total Water Loss in Gallons ÷ Permanent Population Served] ÷ 365

Water Loss Percentage = [Total Water Loss ÷ Total System Input] x 100

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2016	37,736,664	14	17%
2017	41,938,975	15	18%
2018	8,570,131	3	4%
2019	20,657,086	8	9%
2020	13,252,482	5	6%
<b>5-year average</b>	24,431,068	9	11%

## F. Peak Water Use

Provide the 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)
2016	540,000	980,000	1.81
2017	640,000	1,182,000	1.85
2018	590,000	1,016,000	1.72
2019	629,000	1,211,000	1.93
2020	623,800	1,307,000	2.10

## G. Summary of Historic Water Use

Water Use Category	Historic 5-year Average	Percent of Connections	Percent of Water Use
Residential SF	160,985,786	89%	0%
Residential MF	6,441,812	4%	0%
Industrial	0	0%	0%
Commercial	25,680,070	7%	0%
Institutional	601,832	0%	0%
Agricultural	2,386,711	1%	0%

## H. System Data Comment Section

Provide additional comments about system data below.

All consumption is taken from the 2016 thru 2020 SWMOR monthly reports or the annual survey report to the Texas Water Development Board; whichever the case may be. Consumptions billed to customers was taken from the City's Utility Incode System.

## Section III: Wastewater System Data

If you do not provide wastewater system services then you have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the [Water Conservation Plan Checklist](#) to complete your Water Conservation Plan.

### A. Wastewater System Data (Attach a description of your wastewater system.)

- Design capacity of wastewater treatment plant(s): 0  
gallons per day.
- List the active wastewater connections by major water use category.

Water Use Category*	Active Wastewater Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal			0	0%
Industrial			0	0%
Commercial			0	0%
Institutional			0	0%
Agricultural			0	0%
<b>TOTAL</b>	0	0	0	

- What percent of water is serviced by the wastewater system? \_\_\_\_%
- For the previous five years, enter the number of gallons of wastewater that was treated by the utility.

Month	Total Gallons of Treated Wastewater				
	2016	2017	2018	2019	2020
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
<b>TOTAL</b>	0	0	0	0	0

4. Can treated wastewater be substituted for potable water?

☐

Yes

☒

No

## B. Reuse Data

1. Provide data on the types 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 (parks, golf courses)	
Agricultural	
Discharge to surface water	
Evaporation pond	
Other	
<b>TOTAL</b>	<b>0</b>

## C. Wastewater System Data Comment

Provide additional comments about wastewater system data below.

City of River Oaks has no treatment plant and all sewer treatment is contracted with the City of Fort Worth. The sewer is unmetered, due to numerous interconnects between the two Cities. Charges are based off contract to where residential is based monthly on 10,500 gallons and

You have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the [Water Conservation Plan Checklist](#) to complete your Water Conservation Plan.