LCRA Interruptible
Water Rates
for Calendar Year
2023

Water Operations Committee Meeting

Nov. 16, 2022



#### **Water Rates Review**

- For rate-setting purposes, costs are divided into the following four categories:
  - River management operations and maintenance expenses
  - Water debt obligation debt service and coverage
  - Irrigation canals water delivery agriculture and Gulf Coast industry
  - Other adjustments:
    - 1. Additional revenue-funded capital
    - 2. Firm revenue requirement offsets STP Nuclear Operating Company revenue and City of Austin Lake Travis diversions revenue

### Water Rates Review (Continued)

#### Firm pays for:

- Allocated portion of river management (78.7%)
- Water debt obligation (100%)
- Other adjustments and revenue requirement offsets (100%)

#### Interruptible pays for:

- Allocated portion of river management (21.3%) Gulf Coast and Lakeside agricultural divisions only
- Irrigation debt (100%)
- Irrigation canals water delivery (100%)

### Water Rates Review (Continued)

- In 2023, interruptible rates will recover full allocation of river management costs (21.3%)
- Transition occurred over eight years beginning in calendar year 2016

	<b>2015</b> \	2015 WMP: 20.7%			2020 WMP: 21.3%				
		•							

Calendar Year	2016	2017	2018	2019	2020	2021	2022	2023
Transition year:	1	2	3	4	5	6	7	8
Interruptible – 2020 WMP	13.5%	14.7%	15.9%	15.9%	17.1%	18.5%	19.9%	21.3%
Interruptible – 2015 WMP	13.5%	14.7%	15.9%	15.9%	17.1%	18.3%	19.5%	20.7%

### What's Changed From 2022 Rate?

- Agricultural division operations and maintenance costs updated
  - Based on fiscal year 2022 actual results
  - Adjusted for known and measurable changes
    - 3.5% base labor increase; market adjustments
    - Electric costs adjusted to reflect CY 2023 estimate of acres and water use
    - Other adjustments, including outside services and materials costs

### What's Changed From 2022 Rate? (Continued)

- River management cost allocation updated
  - CY 2023 is year eight of the eight-year transition to full-cost recovery of allocated river management costs
- Interruptible billing units updated
  - Acres based on three-year rolling average of actual acres
    - **2**020, 2021, 2022
  - Water use per acre based on 20-plus year statistical analysis

### Gulf Coast Agricultural Division CY 2022 Acres and Water Use

	First Season Rice	Second Season Rice	Turf	Row Crop	Aquaculture	Wildlife	Pasture
Number of contracts	21	0	6	8	5	3	6
Number of contracts not serviced	0	0	0	0	0	0	0
Acres contracted	8,326.6	0	1,790.1	1,804.0	506.0	176.0	386.0
Acres contracted not serviced	0	0	0	0	0	0	0
Acres serviced	8,326.6	0	1,790.1	1,804.0	506.0	176.0	386.0
Water delivered (acre-feet)	22,520.6	0	1,572.0	746.3	1,068.4	265.4096	331.9
Water use per acre (a-f per acre)	2.705	0	.878	.414	2.11	1.51	.860
Number of contracts in surcharge	3	0	0	0	0	0	0

## Lakeside Agricultural Division CY 2022 Acres and Water Use

	First Season Rice	Second Season Rice	Row Crop	Pasture
Number of contracts	55	0	1	1
Number of contracts not serviced	0	0	0	0
Acres contracted	26,563.4	0	865.0	10.0
Acres contracted not serviced	938.7	0	0	0
Acres serviced	25,624.7	0	865.0	10.0
Water delivered (a-f)	64,606.2	0	222.6	12.2
Water use per acre (a-f per acre)	2.52	0	.257	1.2
Number of contracts in surcharge	6	0	0	0

## **Garwood Agricultural Division CY 2022 Acres and Water Use**

	First Season Rice	Second Season Rice	Row Crop	Wildlife	Pasture
Number of contracts	56	47	1	31	0
Number of contracts not serviced	1	3	0	1	0
Acres contracted	20,890.2	18,022.2	82.0	4,408.3	0
Acres contracted not serviced	105.0	2,144.2	0	900.0	0
Acres serviced	20,785.2	15,878.0	82.0	3,508.3	0
Water delivered (a-f)	66,331.5	19,624.6	42.4	4,618.3	0
Water use per acre (a-f per acre)	3.191	1.236	.517	1.316	0
Number of contracts in surcharge	23	0	0	4	0

### Interruptible Billing Units - CY 2023

	Gulf Coast	Lakeside	Garwood	How Derived		
Acres						
Rice – first season	8,956	22,893	19,836	Three-year averages:  • First season rice turf – 2020, 2021, 2022		
Rice – second season	3,762	11,908	15,707	• Second season rice:		
Turf	1,700			Gulf Coast and Lakeside – 2019, 2020, 2021 Garwood – 2020, 2021, 2022		
Times: water use per acre (a-f per acre)*						
Rice – first season	2.826	1.848	1.854	20-plus year statistical analysis		
Rice – second season	1.346	1.165	1.248	Three-year weighted averages:		
Turf	0.710			<ul> <li>Gulf Coast and Lakeside – 2019, 2020, 2021</li> <li>Garwood – 2020, 2021, 2022</li> </ul>		
Equals: billing units (a-f)*						
Rice – first season	25,310	42,311	36,785			
Rice – second season	5,065	13,875	19,601			
Turf	1,206					
Total interruptible billing units	31,581	56,186	56,386			

\*Water use is delivered to the field

### Gulf Coast Agriculture Rate - CY 2023

(Dollars in thousands)			Variance – Favorable (Unfavorable)		
	CY 2023 Rate	<b>CY 2022 Rate</b>	Amount	Percent	
Water delivery costs	\$2,282	\$2,173	(\$109)	(5.0%)	
Add: allocated river management costs – full-cost recovery	\$1,158	\$1,199	\$41	3.4%	
Total costs – full-cost recovery	\$3,440	\$3,372	(\$68)	(2.0%)	
Less: amount paid by firm during transition of river management costs	\$0	(\$79)	(\$79)	(100.0%)	
Less: Agriculture Reserve Funds used	(\$1,094)	(\$1,235)	(\$141)	(11.4%)	
Total costs	\$2,346	\$2,058	(\$288)	(14.0%)	
Divided by: billing units (a-f)	31,581	29,633	1,949	6.6%	
Equal: rate (Dollars per a-f)					
Water delivery costs	\$72.26	\$73.33	(\$1.07)	(1.5%)	
River management costs – full-cost recovery	\$36.67	\$40.45	(\$3.78)	(9.3%)	
Total full-cost recovery rate	\$108.93	\$113.78	(\$4.85)	(4.3%)	
Less: river management costs paid by firm during eight-year transition	\$0.00	(\$2.66)	\$2.66	100.0%	
Less: Agriculture Reserve Funds used	(\$34.63)	(\$41.68)	\$7.05	16.9%	
Total Gulf Coast agriculture rate	\$74.30	\$69.44	\$4.86	7.0%	

### **Gulf Coast Industrial Rate - CY 2023**

(Dollars in thousands unless otherwise noted)	Gulf Coast Industrial Billing Units (a-f)				
	Use	Less: Losses	Billing Units	CY 2023 Rate	
Gulf Coast costs allocated to industry					
Divided by: Gulf Coast industrial billing units					
Underground Services Markham – losses at 23.4%	7,119 (1)	(1,668)	5,451		
OQ Chemicals Corporation – losses at 23%	4,529 (1)	(1,042)	3,487		
Total billing units – delivered to facility	11,648	(2,710)	8,938		
Total billing units (thousand gallons) (1 a-f equals 325,851 gallons)					
Gulf Coast industrial distribution rate (Dollars per thousand gallons) Gulf Coast industrial distribution rate (Dollars per a-f)					

- (1) Use volumes billed at firm rate.
- (2) Current rate is \$0.235 per thousand gallons or \$76.57 per a-f per Board approval in January 2021.
- (3) Increase from current rate of \$0.018 per thousand gallons or \$5.71 per a-f (7.5% increase).

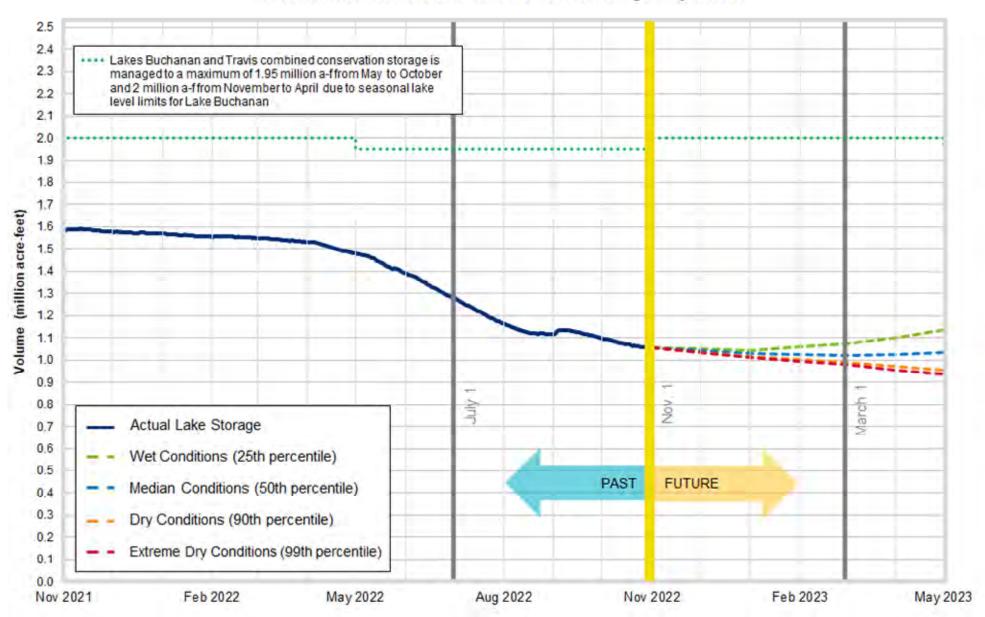
### Lakeside Rate - CY 2023

(Dollars in thousands unless otherwise noted)			<b>Varia</b> Favorable (L	
	CY 2023 Rate	<b>CY 2022 Rate</b>	Amount	Percent
Water delivery costs	\$3,117	\$2,747	(\$370)	(13.5%)
Add: allocated river management costs – full-cost recovery	\$2,060	\$2,088	\$28	1.3%
Total costs – full-cost recovery	\$5,177	\$4,835	(\$342)	(7.1%)
Less: amount paid by firm during transition of river management costs	\$0	(\$137)	(\$137)	(100.0%)
Less: Agriculture Reserve Funds used	(\$1,002)	(\$1,113)	(\$111)	(10.0%)
Total costs	\$4,175	\$3,585	(\$590)	(16.5%)
Divided by: billing units (a-f)	56,186	51,624	4,561	8.8%
Equal: rate (Dollars per a-f)				
Water delivery costs	\$55.48	\$53.21	\$2.27	4.3%
River management costs – full-cost recovery	\$36.67	\$40.45	(\$3.78)	(9.3%)
Total full-cost recovery rate	\$92.15	\$93.66	(\$1.51)	(1.6%)
Less: river management costs paid by firm during eight-year transition	\$0.00	(\$2.66)	\$2.66	100.0%
Less: Agriculture Reserve Funds used	(\$17.85)	(\$21.56)	\$3.71	17.2%
Total Lakeside rate	\$74.30	\$69.44	\$4.86	7.0%

### Garwood Rate - CY 2023

(Dollars in thousands unless otherwise noted)			<b>Varia</b> ı Favorable (U	
	CY 2023 Rate	CY 2022 Rate	Amount	Percent
Water delivery costs	\$2,394	\$2,155	(\$239)	(11.1%)
Add: allocated river management costs – full-cost recovery	n/a	n/a	n/a	n/a
Total costs – full-cost recovery	\$2,394	\$2,155	(\$239)	(11.1%)
Less: amount paid by firm during transition of river management costs	n/a	n/a	n/a	n/a
Total costs	\$2,394	\$2,155	(\$239)	(11.1%)
Divided by: billing units (a-f)	56,386	53,139	3,247	6.1%
Equal: rate (Dollars per a-f)				
Water delivery costs	\$42.46	\$40.55	\$1.91	4.7%
River management costs – full-cost recovery	n/a	n/a	n/a	n/a
Total full-cost recovery rate	\$42.46	\$40.55	\$1. 91	4.7%
Less: amount paid by firm during transition of river management costs	n/a	n/a	n/a	n/a
Garwood rate – weighted average	\$42.46	\$40.55	\$1.91	4.7%
Garwood rate – one lift (81% of total volume)	\$41.04	\$39.19	\$1.85	4.7%
Garwood rate – two lifts (19% of total volume)	\$48.64	\$46.46	\$2.18	4.7%

#### Lakes Buchanan and Travis Total Combined Storage Projections



### Proposed CY 2023 Interruptible Rules, Rates and Drought Contingency Plan Changes

- Reviewing and considering potential changes to the following:
  - Minimum charges
  - Contracting for supplemental water
  - Groundwater transport agreements
  - Change deadline for first season use to be considered for second season allocation
  - Updates to surcharge triggers

# CY 2023 Interruptible Rules, Rates and Drought Contingency Plan Implementation Summary and Timeline

- Interruptible rates increasing
- Agriculture Drought Contingency Plan and contract rules
  - Post on website for review and comment in December 2022
  - Close comment period in early January 2023
  - Consider approval at Jan. 18, 2023, Board meeting
- Interruptible water availability driven by conditions on March 1, 2023

