LCRA Water Rates for Calendar Year 2021

LCRA Board Meeting Dec. 15, 2020

Water Rates Review

- For rate-setting purposes, costs are divided into the following four pools:
 - 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, City of Austin Lake Travis diversions revenue, Lometa lease revenue
 - 3. Interruptible share of river management paid by firm during eight-year transition period

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 irrigation divisions only
- Irrigation debt (100%)
- Irrigation canals water delivery (100%)

Water Rates Review (Continued)

- River management cost allocation statistics updated to 2020 Water Management Plan
 - Allocated portion of river management to interruptible (Gulf Coast and Lakeside only): 21.3%
 - Includes Arbuckle Reservoir
 - Includes additional drought years 2014 to 2016

Water Rates Review (Continued)

- River management costs transitioned to full-cost allocation to interruptible over eight years beginning in calendar year 2016
 - Full-cost allocation to interruptible is 21.3% by year eight, or CY 2023
 - Firm pays for difference during transition period

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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%

2015 WMP 20 7%

Cost allocation difference is minimal: about \$100,000

2020 WMP. 21 3%

What's Changed From 2020 Rate?

- Operations and maintenance costs updated
 - Based on fiscal year 2020 actual results
 - Adjusted for "known and measurable" changes
 - 3% labor increase
 - Electric costs adjusted to reflect CY 2021 estimate of acres and water use
 - Nonrecurring retirement payouts excluded

What's Changed From 2020 Rate? (Continued)

- River management cost allocation updated
 - Eight-year transition to full-cost recovery of allocated river management costs to interruptible
 - CY 2021 is year six of the eight-year transition
- Firm and interruptible billing units updated
 - Acres based on three-year rolling average of actual acres
 - **2018**, 2019, 2020
 - Water use per acre based on 20+ year statistical analysis

Total Firm Costs – CY 2021

(Dollars in thousands)	CY 2021	CY 2020		Variance – Favorable (Unfavorable)
	Rate	Rate	Amount	Percent
River management costs	\$14,871	\$14,263	(\$608)	(4.3%)
Water debt obligation	\$6,549	\$6,455	(\$94)	(1.5%)
Other adjustments	\$4,803	\$5,165	\$362	7.0%
Less: interruptible share of river management – full-cost allocation	(\$2,980)	(\$2,769)	\$211	7.6%
Total firm costs	\$23,243	\$23,114	(\$129)	(0.6%)

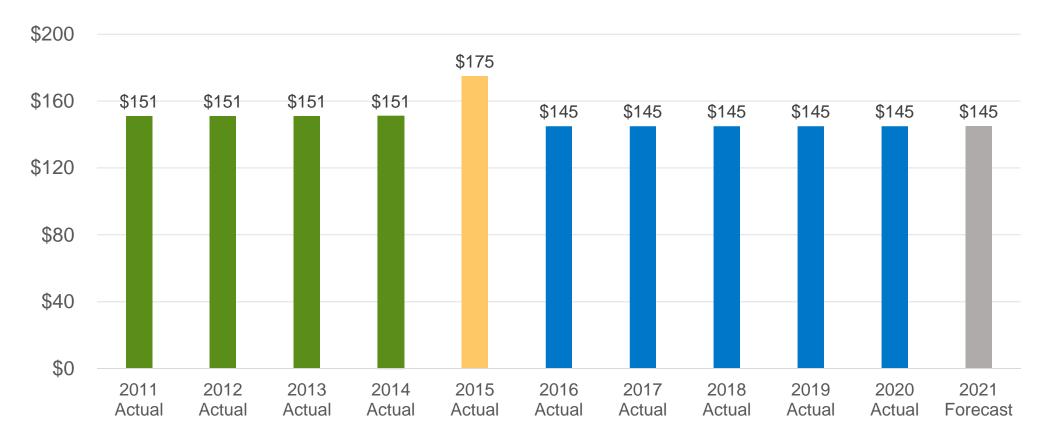
Firm Billing Units – 2021 Rate

			Firr	n Billing Units	(a-f)	
Top 16 Firm Customers in Terms of Billing Units (84% of Total Billing Units)	Customer Type	A Maximum Annual Quantity (acre-feet)	B Use	C (A-B)*50% Reservation	D (B+C) Total Billing Units	% of Firm Billing Units
LCRA generation	LCRA gen	40,000	13,531	13,235	26,766	16.7%
Cedar Park, City of	Municipal	23,000	15,700	3,650	19,350	12.1%
Leander, City of	Municipal	24,000	9,035	7,483	16,518	10.3%
Brazos River Authority	Municipal	25,000	338	12,331	12,669	7.9%
Underground Services Markham	Industrial	11,621	7,537	2,042	9,579	6.0%
Pflugerville, City of	Municipal	12,000	5,051	3,475	8,526	5.3%
Travis County WCID No. 17	Municipal	8,800	7,513	DOES NOT PAY	7,513	4.7%
West Travis County PUA	Municipal	9,000	5,761	1,619	7,380	4.6%
Fayette Power Project – Austin Energy	Industrial	7,500	3,063	2,218	5,281	3.3%
Oxea Corporation	Industrial	5,334	4,072	631	4,703	2.9%
Domestic use and temporary contracts	DU/temp	4,594	4,579	0	4,579	2.9%
Travis County MUD No. 4	Municipal	3,501	2,112	695	2,807	1.8%
Lakeway MUD No. 1	Municipal	3,069	2,292	388	2,680	1.7%
Bastrop Energy Partners	Industrial	3,220	1,591	814	2,405	1.5%
Horseshoe Bay, City of	Municipal	2,225	2,018	103	2,121	1.3%
Lago Vista, City of	Municipal	6,500	1,510	DOES NOT PAY	1,510	0.9%
All others (98 contracts)	Various		17,289	8,623	25,912	16.1%
Total firm billing units			102,992	57,307	160,299	100.0%

Firm Rate - CY 2021

(Dollars in thousands unless otherwise noted)			– Variance (Unfavo	
	CY 2021 Rate	CY 2020 Rate	Amount	Percent
River management costs	\$14,871	\$14,263	(\$608)	(4.3%)
Less: river management costs allocated to interruptible	(\$2,980)	(\$2,769)	\$211	7.6%
Add: water debt obligation	\$6,549	\$6,455	(\$94)	(1.5%)
Add: other adjustments				
Cash-funded capital	\$6,112	\$6,365	\$253	4.0%
STP Nuclear Operating Company – revenue offset	(\$985)	(\$990)	(\$5)	(0.5%)
City of Austin Lake Travis diversions revenue – revenue offset	(\$592)	(\$597)	(\$5)	(0.8%)
Lometa lease – revenue offset	(\$123)	(\$95)	\$28	29.5%
Interruptible's share of river management paid by firm during transition	\$391	\$482	\$91	18.9%
Total firm costs	\$23,243	\$23,114	(\$129)	(0.6%)
Divided by: firm billing units (a-f)	160,299	159,410	889	0.6%
Equals: firm rate (\$ per a-f)	\$145.00	\$145.00	\$0.00	0.0%

Firm Rate (\$ per a-f)



Rate Stabilization Fund

- Established in 2016 as a "lesson learned" from the drought and the drought rate from 2015
- Goal of providing insurance against short-term rate shock for extraordinary events such as major drought
- Initially established with target of two years of fixed costs in irrigation
- Balance: \$19.7 million

Lakeside CY 2020 Acres and Water Use

	First Season Rice	Second Season Rice	Wildlife
Number of contracts	61	37	14
Number of contracts not serviced	1	0	1
Acres contracted	21,460	13,042	1,205
Acres contracted not serviced	0	0	289
Acres serviced	21,460	13,042	916
Water delivered (a-f)	35,598	15,228	1,322
Water use per acre (a-f per acre)	1.659	1.168	1.443
Number of contracts in penalty	1	0	3

Gulf Coast CY 2020 Acres and Water Use

	First Season Rice	Second Season Rice	Turf	Row Crop	Aquaculture	Wildlife	Hay/Pasture
Number of contracts	27	18	6	8	1	15	1
Number of contracts not serviced	0	0	0	0	0	1	0
Acres contracted	9,590	5,035	1,670	1,476	192	1,327	50
Acres contracted not serviced	0	0	0	0	0	289	0
Acres serviced	9,590	5,035	1,670	1,476	192	1,038	50
Water delivered (a-f)	25,998	7,556	1,347	407	258	1,192	17
Water use per acre (a-f per acre)	2.711	1.501	0.806	0.276	1.344	1.149	0.341
Number of contracts in penalty	1	0	0	0	0	1	0

Garwood CY 2020 Acres and Water Use

	First Season Rice	Second Season Rice	Row Crop	Wildlife	Hay/Pasture
Number of contracts	58	46	1	27	2
Number of contracts not serviced	1	0	1	0	2
Acres contracted	19,856	17,890	177	3,912	11
Acres contracted not serviced	100	1,744	177	688	11
Acres serviced	19,756	16,146	0	3,224	0
Water delivered (a-f)	37,999	19,483	0	3,830	0
Water use per acre (a-f per acre)	1.923	1.207	0.000	1.188	0.000
Number of contracts in penalty	0	0	0	3	0

Interruptible Billing Units – CY 2021

	Lakeside	Gulf Coast	Garwood	How Derived
Acres				
Rice – first season	20,624	9,190	18,967	
Rice – second season	12,005	5,288	14,769	Three-year average – 2018, 2019, 2020
Turf		1,577		
Times: water use per acre (a-f per ac	re)*			
Rice – first season	1.884	2.932	1.895	20+ year statistical analysis
Rice – second season	1.047	1.170	1.134	Three year everage 2019 2010 2020
Turf		0.830		Three-year average – 2018, 2019, 2020
Equals: billing units (a-f)*				
Rice – first season	38,855	26,947	35,943	
Rice – second season	12,574	6,187	16,744	
Turf		1,310		
Total interruptible billing units	51,428	34,444	52,687	

*Water use is delivered to the field

Lakeside Rate – CY 2021

(Dollars in thousands unless otherwise noted)				Variance – Favorable (Unfavorable)	
	CY 2021 Rate	CY 2020 Rate	Amount	Percent	
Water delivery costs	\$2,802	\$2,590	(\$212)	(8.2%)	
Add: allocated river management costs – full-cost recovery	\$1,786	\$1,654	(\$132)	(8.0%)	
Total costs – full-cost recovery	\$4,588	\$4,244	(\$344)	(8.1%)	
Less: amount paid by firm during transition of river management costs	(\$235)	(\$288)	(\$53)	(18.4%)	
Less: Agriculture Reserve Fund used*	(\$951)	(\$659)	\$292	44.3%	
Total costs	\$3,402	\$3,297	(\$105)	(3.2%)	
Divided by: billing units (a-f)	51,428	52,337	(909)	(1.7%)	
Equals: rate (\$ per a-f)					
Water delivery costs	\$54.48	\$49.49	\$4.99	10.1%	
River management costs – full-cost recovery	\$34.70	\$31.61	\$3.09	9.8%	
Total full-cost recovery rate	\$89.18	\$81.10	\$8.08	10.0%	
Less: amount paid by firm during transition of river management costs	(\$4.56)	(\$5.50)	\$0.94	17.1%	
Less: Agriculture Reserve Fund used*	(\$18.48)	(\$12.60)	(\$5.88)	(46.7%)	
Total Lakeside rate	\$66.14	\$63.00	\$3.14	5.0%	

*CY 2020 LCRA Strategic Reserves used

Gulf Coast Cost Allocation – CY 2021

 Gulf Coast system provides water to two industrial customers – Underground Services Markham and Oxea

- USM and Oxea pay a separate water delivery rate

- Gulf Coast costs are allocated between agriculture and industry based on relative projected water use for CY 2021
 - 81% agriculture, 19% industry

Projected Gulf Coast Water	% of Total			
Industry:	USM	Oxea	Total	
Diverted at river	7,537	4,072	11,609	
Less: losses (~30%)	(2,306)	(1,217)	(3,523)	
Total industry:	5,231	2,855	8,086	19.0%
Agriculture:			34,444	81.0%
Total Gulf Coast:			42,530	100.0%

Gulf Coast Agriculture Rate – CY 2021

(Dollars in thousands unless otherwise noted)			Varia Favorable (L	
	CY 2021 Rate	CY 2020 Rate	Amount	Percent
Water delivery costs	\$2,396	\$2,456	\$60	2.4%
Add: allocated river management costs – full-cost recovery	\$1,195	\$1,115	(\$80)	(7.2%)
Total costs – full-cost recovery	\$3,591	\$3,571	(\$20)	(0.6%)
Less: amount paid by firm during transition of river management costs	(\$157)	(\$194)	(\$37)	(19.1%)
Less: Agriculture Reserve Fund used*	(\$1,156)	(\$1,156)	\$0	0.0%
Total costs	\$2,278	\$2,221	(\$57)	(2.6%)
Divided by: billing units (a-f)	34,444	35,258	(814)	(2.3%)
Equals: rate (\$ per a-f)				
Water delivery costs	\$69.56	\$69.66	(\$0.10)	(0.1%)
River management costs – full-cost recovery	\$34.70	\$31.61	\$3.09	9.8%
Total full-cost recovery rate	\$104.26	\$101.27	\$2.99	3.0%
Less: amount paid by firm during transition river management costs	(\$4.56)	(\$5.50)	\$0.94	17.1%
Less: Agriculture Reserve Fund used*	(\$33.56)	(\$32.77)	(\$0.79)	(2.4%)
Total Gulf Coast agriculture rate	\$66.14	\$63.00	\$3.14	5.0%

*CY 2020 LCRA Strategic Reserves used

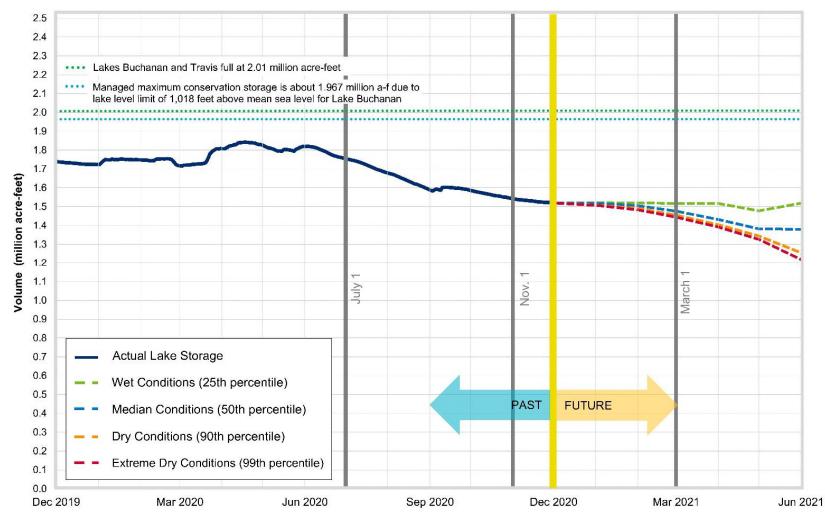
Gulf Coast Industrial Rate – CY 2021

(Dollars in thousands unless otherwise noted)	
	CY 2021 Rate
Gulf Coast costs allocated to industry	\$654
Less: pumping charge – charged separately	(\$33)
Amount to be recovered through Gulf Coast industrial distribution rate	\$621
Divided by: Gulf Coast industry use (a-f)	8,086
Gulf Coast industrial distribution rate (\$ per a-f)	\$76.58
Gulf Coast <u>agriculture</u> delivery rate (\$ per a-f)	\$69.56
Gulf Coast industrial distribution rate (\$ per thousand gallons) Current Gulf Coast industrial distribution rate (\$ per thousand gallons)*	\$0.235 \$0.166
Percent rate increase	41.6%

*Current rate of \$0.166 per thousand gallons last changed effective January 2016

Garwood Rate - CY 2021

(Dollars in thousands unless otherwise noted)			Variance – Favorable (Unfavorable)	
	CY 2021 Rate	CY 2020 Rate	Amount	Percent
Water delivery costs	\$2,089	\$1,997	(\$92)	(4.6%)
Add: allocated river management costs – full-cost recovery	n/a	n/a	n/a	n/a
Total costs – full-cost recovery	\$2,089	\$1,997	(\$92)	(4.6%)
Less: amount paid by firm during transition of river management costs	n/a	n/a	n/a	n/a
Total costs	\$2,089	\$1,997	(\$92)	(4.6%)
Divided by: billing units (a-f)	52,687	51,554	1,132	2.2%
Equals: rate (\$ per a-f)				
Water delivery costs	\$39.65	\$38.74	\$0.91	2.3%
River management costs – full-cost recovery	n/a	n/a	n/a	n/a
Total full-cost recovery rate	\$39.65	\$38.74	\$0.91	2.3%
Less: amount paid by firm during transition of river management costs	n/a	n/a	n/a	n/a
Garwood rate – weighted average	\$39.65	\$38.74	\$0.91	2.3%
Garwood rate – one lift (81% of total volume)	\$38.32	\$37.44	\$0.88	2.4%
Garwood rate – two lifts (19% of total volume)	\$45.42	\$44.38	\$1.04	2.3%



Lakes Buchanan and Travis Total Combined Storage Projections

Date: Dec. 1, 2020 Note: One acre-foot equals 325,851 gallons

Drought Contingency Plan and Contract Rules

- DCP allocates interruptible stored water under the Water Management Plan
- Interruptible Agriculture Contract Rules spell out the "how"

Proposed CY 2021 Drought Contingency Plan, Rule and Rate Changes

- Modify the minimum charge to be equal to 33% of the current year's interruptible water rate
- Reduce the interruptible stored water allocation for second season if rice customer use through June 30 is less than 1.5 a-f per acre
 - 50% allocation for use <= 1.0 a-f per acre</p>
 - 75% allocation for use 1.0-1.5 a-f per acre
- Require prepayment of minimum charge for:
 - Customer with unpaid balance as of Feb. 1 from prior year
 - New customer unless the landowner is also party to contract

CY 2021 Rule, Rate and Drought Contingency Plan Implementation Summary and Timeline

- Firm rates no change for CY 2021
- Interruptible rates increasing
- Agriculture DCP and contract rules
 - Post on website for review and comment mid-December 2020
 - Comment period closing about Jan. 8, 2021
 - Agenda Jan. 20 Board meeting
- Interruptible water availability driven by conditions March 1, 2021

Questions?