

**LOWER COLORADO RIVER AUTHORITY**

**FINANCIAL STATEMENTS  
AS OF AND FOR THE YEARS ENDED  
June 30, 2017, and 2016**

*With Report of Independent Auditors*

**Lower Colorado River Authority**  
Financial Statements  
As of and for the  
Years Ended  
June 30, 2017, and 2016

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# Lower Colorado River Authority

## Management's Discussion and Analysis

### As of and for the Years Ended June 30, 2017, and 2016

## Financial Statements Overview

In accordance with Governmental Accounting Standards Board (GASB) Statement No. 34, *Basic Financial Statements – Management's Discussion and Analysis – for State and Local Governments*, the Lower Colorado River Authority (LCRA) is considered a special-purpose government engaged only in business-type activities. GASB Statement No. 34 requires the following components in a governmental entity's annual report:

### Management's Discussion and Analysis

This section provides an objective and easily readable analysis of financial activities based on currently known facts, decisions or conditions.

### Statements of Net Position

The presentation of assets and liabilities of proprietary funds should distinguish between current and long-term assets and liabilities. Deferred inflows and deferred outflows are reported as separate line items.

### Statements of Revenues, Expenses and Changes in Net Position

These statements provide the operating results broken into the categories of operating revenues and expenses, nonoperating revenues and expenses, costs to be (prior costs) recovered from revenues, capital contributions, and special items.

### Statements of Cash Flows

Sources and uses of cash are classified using the direct method as resulting from operating, noncapital financing, capital and related financing or investing activities.

### Notes to Financial Statements

The notes explain information in the financial statements and provide additional details.

## Financial Highlights

Condensed Statements of Net Position	June 30, 2017	June 30, 2016	June 30, 2015	2017 vs. 2016	2016 vs. 2015
<i>(Dollars in Millions)</i>					
Current assets	\$ 561.5	\$ 656.3	\$ 607.9	(14%)	8%
Capital assets, net	4,244.3	4,118.1	4,102.4	3%	0%
Other long-term assets	742.5	671.6	512.3	11%	31%
Total Assets	5,548.3	5,446.0	5,222.6	2%	4%
Total Deferred Outflow of Resources	180.7	177.2	146.8	2%	21%
Total Assets and Deferred Outflow of Resources	\$ 5,729.0	\$ 5,623.2	\$ 5,369.4	2%	5%
Current liabilities	\$ 545.5	\$ 423.3	\$ 501.1	29%	(16%)
Long-term liabilities	3,705.7	3,818.5	3,561.5	(3%)	7%
Total Liabilities	4,251.2	4,241.8	4,062.6	0%	4%
Total Deferred Inflow of Resources	29.1	37.9	18.8	(23%)	102%
Net investment in capital assets	806.2	754.7	747.7	7%	1%
Restricted net position	78.6	79.9	79.2	(2%)	1%
Unrestricted net position	563.9	508.9	461.1	11%	10%
Total Net Position	1,448.7	1,343.5	1,288.0	8%	4%
Total Liabilities, Deferred Inflow of Resources and Net Position	\$ 5,729.0	\$ 5,623.2	\$ 5,369.4	2%	5%

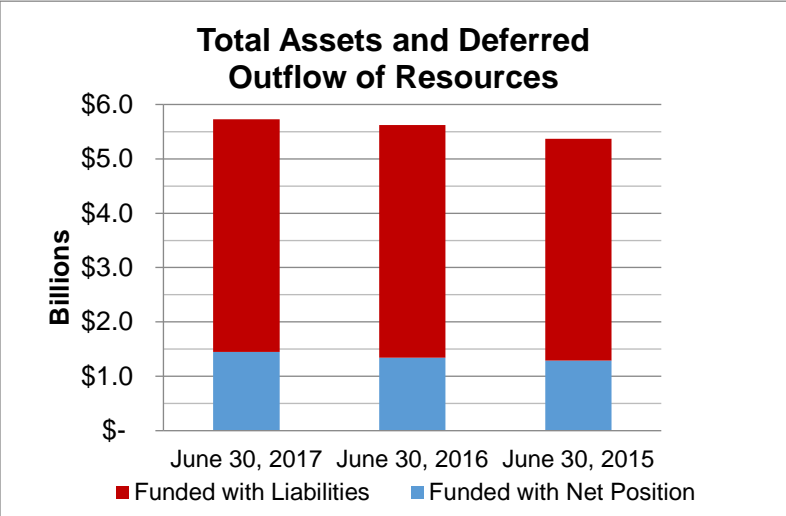
# Lower Colorado River Authority Management’s Discussion and Analysis As of and for the Years Ended June 30, 2017, and 2016

## Statements of Net Position Overview

LCRA continues to be a capital asset driven business with approximately 76 percent of its assets being capital assets. The other assets primarily exist to support the capital assets and their activities. See details in the Capital Asset Activity section below. LCRA uses long-term debt to finance most of its capital activity. The Debt Activity section provides additional details. The following chart shows total assets and deferred outflow of resources for each of the last three years. It also identifies the amount of the assets and deferred outflow of resources funded by liabilities versus net position.

### 2017 Compared to 2016

Total assets and deferred outflow of resources increased by \$105.8 million, or 2 percent, from the prior year. This was primarily caused by a \$126.2 million increase in net capital assets, offset by a \$31.0 million decrease in cash, cash equivalents and investments. Long-term investments increased \$111.1 million and current investments decreased \$73.3 million due to increased holdings in investments with greater weighted average maturities. Cash and cash equivalents decreased \$68.8 million, primarily due to a \$79.1 million decrease in construction funds related to a reservoir project in Lane City. Total current liabilities



increased by \$122.2 million, or 29 percent, from the prior period due to a \$115.5 million increase in tax-exempt commercial paper and notes outstanding. Total long-term liabilities decreased by \$112.8 million, or 3 percent, from the prior year primarily due to a \$149.1 million decrease in the long-term portion of bonds payable related to the increase in tax-exempt commercial paper.

### 2016 Compared to 2015

Total assets and deferred outflow of resources increased by \$253.8 million, or 5 percent, from the prior year. This was primarily caused by a \$159.3 million increase in other long-term assets, which was driven by a \$180.8 million increase in construction fund investments. There also was a \$48.4 million increase in current assets due to a \$61.7 million increase in the current portion of unrestricted cash and investments. Total long-term liabilities increased by \$257.0 million, or 7 percent, from the prior year. This was primarily caused by a \$219.0 million increase in the long-term portion of bonds payable.

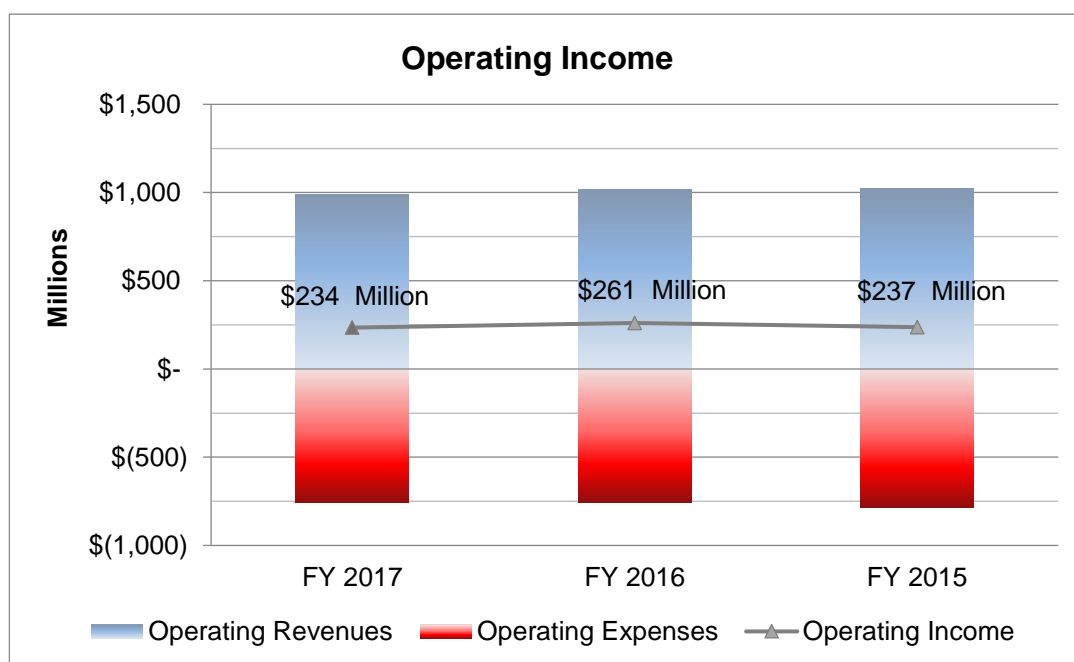
# Lower Colorado River Authority Management's Discussion and Analysis As of and for the Years Ended June 30, 2017, and 2016

## Condensed Statements of Revenues, Expenses and Changes in Net Position

	Year Ended June 30,			2017 vs. 2016	2016 vs. 2015
	2017	2016	2015	Favorable/ (Unfavorable)	Favorable/ (Unfavorable)
<i>(Dollars in Millions)</i>					
Operating revenues	\$ 990.9	\$ 1,017.7	\$ 1,021.3	(3%)	(0%)
Operating expenses	(756.5)	(756.7)	(784.3)	(0%)	4%
Operating Income	234.4	261.0	237.0	(10%)	10%
Nonoperating revenues	34.9	16.2	11.6	115%	40%
Nonoperating expenses	(171.7)	(224.6)	(217.3)	(24%)	(3%)
Nonoperating Loss	(136.8)	(208.4)	(205.7)	34%	(1%)
Capital Contributions	7.6	0.8	1.2	850%	(33%)
Special Item - Gain (loss) on water system sales	-	2.1	(17.0)	(100%)	112%
Contributions and special items	7.6	2.9	(15.8)	162%	118%
Change in Net Position	105.2	55.5	15.5	90%	258%
Total Net Position, Beginning of Year	1,343.5	1,288.0	1,272.5	4%	1%
Total Net Position, End of Year	\$ 1,448.7	\$ 1,343.5	\$ 1,288.0	8%	4%

### Operating Income Overview

Operating income is derived primarily from wholesale energy sales, providing transmission and transformation services, and raw water sales. The Public Utility Commission of Texas (PUC) regulates transmission and transformation rates. LCRA's Board of Directors sets all other rates. The following chart shows LCRA's operating revenues, expenses and income for each of the last three years.



# **Lower Colorado River Authority**

## **Management's Discussion and Analysis**

### **As of and for the Years Ended June 30, 2017, and 2016**

#### ***2017 Compared to 2016***

Operating income for FY 2017 decreased by \$26.6 million, or 10 percent, compared to the prior year. The primary reason for the decrease is a reduction in load demand.

#### ***2016 Compared to 2015***

Operating income for FY 2016 increased by \$24.0 million, or 10 percent, over the prior year. This was primarily due to no material write-offs in FY 2016.

#### ***Nonoperating Loss***

LCRA's nonoperating revenues and expenses primarily are comprised of:

- Interest income and expense.
- Gains or losses on the disposition of assets.
- Deferral of costs to be recovered from future revenues and recognition of prior costs recovered from current revenues.

#### ***2017 Compared to 2016***

LCRA's nonoperating loss for FY 2017 decreased by \$71.6 million, or 34 percent, from the prior year. The most significant item contributing to nonoperating revenues and expenses in FY 2017 was prior cost recovered from revenues decreased from the prior year primarily due to more costs deferred to future years for recovery during FY 2017 compared to FY 2016.

#### ***2016 Compared to 2015***

LCRA's nonoperating loss for FY 2016 increased by \$2.7 million, or 1 percent, from the prior year. The most significant item contributing to nonoperating revenues and expenses in FY 2016 was an increase of \$10.3 million in the nonoperating expense prior costs recovered from revenues, primarily due to a decrease in depreciation expense during FY 2016 compared to prior year, slightly offset by a decrease in debt principal payments.

#### ***Special Item***

LCRA's special item is comprised of gains and losses related to the sale of LCRA water and wastewater systems during FY 2016 and FY 2015. As of June 30, 2017, LCRA is fully divested of wastewater assets.

#### ***2016 Compared to 2015***

LCRA's special item related to the gain on sale of water and wastewater systems increased by \$19.1 million from the prior year due to sales activity during FY 2016.

# Lower Colorado River Authority

## Management's Discussion and Analysis

### As of and for the Years Ended June 30, 2017, and 2016

#### Capital Asset Activity

	FY 2017	FY 2016
<b>Expended for construction activities</b>	\$ 318.5 million	\$ 198.6 million
<b>Depreciation expense</b>	\$ 178.8 million	\$ 173.1 million
<b>Other capital asset activity</b>	No significant non-routine transactions	In June 2016, LCRA completed the sale of the three remaining water and wastewater systems which had a net book value of \$3.3 million. The sale resulted in a gain of \$2.1 million

- For additional details, see the Capital Asset Activity table in Note 7 of the Notes to the Financial Statements.

#### Capital Expansion and Improvement Program

LCRA's capital expansion and improvement program for FY 2018 through FY 2022 is forecasted to be \$1.5 billion with approximately 66 percent to be debt-funded and the remainder to be funded from operations, as summarized in the following table. The majority of forecasted capital costs are for expansion of transmission services and new water supply projects aimed at creating firm water supply and offsetting the use of stored water from the Highland Lakes.

##### LCRA Forecasted Capital Expenditures

*(Dollars in Millions)*

	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Total</u>
Revenue/Other Funded	\$ 90.6	\$ 83.1	\$ 98.4	\$ 124.1	\$ 113.0	\$ 509.2
Debt Funded	<u>295.6</u>	<u>304.6</u>	<u>157.7</u>	<u>137.2</u>	<u>98.1</u>	<u>993.2</u>
Total LCRA Capital	\$ 386.2	\$ 387.7	\$ 256.1	\$ 261.3	\$ 211.1	\$1,502.4
Percent Debt Funded	77%	79%	62%	53%	46%	66%

# Lower Colorado River Authority Management's Discussion and Analysis As of and for the Years Ended June 30, 2017, and 2016

## Debt Activity

	FY 2017	FY 2016
<b>Tax-exempt commercial paper issued</b>	\$119.2 million	\$128.4 million
<b>Scheduled debt payments</b>	\$124.1 million	\$186.3 million
<b>Interest payments</b>	\$170.9 million	\$166.5 million
<b>Bond issuance</b>	<ul style="list-style-type: none"> <li>• There were no new bond issuances in FY 2017.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>LCRA Series 2015 C Refunding Revenue Bonds (\$234.8 million):</b> Proceeds were used to refund \$36.0 million of tax-exempt commercial paper; \$35.4 million was retained in the LCRA construction fund, and \$174.1 million was placed in an escrow account.</li> <li>• <b>LCRA Series 2015 D Refunding Revenue Bonds (\$133.9 million):</b> Proceeds along with cash from the revenue fund were used to refund LCRA 1999A, 2001, 2001A and 2002 Revenue Bonds in the amount of \$146.9 million.</li> <li>• <b>LCRA TSC Series 2016 Refunding Revenue Bonds (\$190.0 million):</b> Proceeds were used to refund LCRA TSC 2006A Revenue Bonds in the amount of \$97.7 million as well as \$120.0 million of tax-exempt commercial paper.</li> </ul>
<b>Other debt activity</b>		<ul style="list-style-type: none"> <li>• In FY 2016, LCRA used cash proceeds related to the sale of water systems to pay down \$3.1 million in debt which included LCRA Series 2001A, 2003, and 2004D Refunding Revenue Bonds.</li> </ul>

- For additional details, see Note 3 of the Notes to the Financial Statements.



**Lower Colorado River Authority  
Management's Discussion and Analysis  
As of and for the Years Ended June 30, 2017, and 2016**

**Contacting LCRA's Management**

This report provides a general overview of LCRA's finances. For more information, contact Bill Lauderback, Executive Vice President for Public Affairs, Lower Colorado River Authority, P.O. Box 220, Austin, TX 78767.



## **Report of Independent Auditors**

To the Board of Directors  
Lower Colorado River Authority

### **Report on the Financial Statements**

We have audited the accompanying financial statements of the Lower Colorado River Authority (LCRA), which consist of the statements of net position as of June 30, 2017 and 2016, and the related statements of revenues, expenses and changes in net position, and of cash flows, and the related notes to the financial statements for the years then ended, which collectively comprise the Lower Colorado River Authority's financial statements.

### ***Management's Responsibility for the Financial Statements***

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### ***Auditors' Responsibility***

Our responsibility is to express an opinion on the financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on our judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, we consider internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### ***Opinion***

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Lower Colorado River Authority as of June 30, 2017 and 2016, and its changes in net position and its cash flows for the years then ended, in accordance with accounting principles generally accepted in the United States of America.



## ***Other Matters***

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the accompanying Management's Discussion and Analysis (MD&A) and Required Supplementary Information (RSI) on pages 1 through 7 and 54 through 56 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in the appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### ***Other Reporting Required by Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated September 19, 2017 on our consideration of the LCRA's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the LCRA's internal control over financial reporting and compliance.

*PricewaterhouseCoopers LLP*

September 20, 2017

# LOWER COLORADO RIVER AUTHORITY

## STATEMENTS OF NET POSITION

(Dollars in Millions)

	<b>June 30, 2017</b>	<b>June 30, 2016</b>
<i>Assets</i>		
<b>Current Assets:</b>		
Cash and cash equivalents	\$ 242.0	\$ 258.0
Investments	74.7	148.0
Receivables, net	153.8	155.1
Inventories, net	85.6	90.8
Other	5.4	4.4
Total current assets	561.5	656.3
<b>Long-term Assets:</b>		
Restricted cash and cash equivalents	72.0	124.8
Restricted investments	272.1	303.3
Unrestricted investments	209.2	66.9
Construction Escrow TWDB Lane City Reservoir	7.3	7.2
<b>Capital assets:</b>		
Depreciable:		
Utility plant in service	5,811.8	5,636.9
Intangible assets - other	9.1	-
Oil and gas property	28.2	28.2
Other physical property	53.6	52.5
Less: accumulated depreciation	(2,334.9)	(2,167.5)
Depreciable capital assets, net	3,567.8	3,550.1
Nondepreciable:		
Utility plant in service	297.6	296.9
Intangible assets - water rights	101.7	101.7
Other physical property	19.9	19.1
Construction work in progress	257.3	150.3
Nondepreciable capital assets	676.5	568.0
Notes receivable	15.9	16.5
<b>Other charges</b>		
Costs to be recovered from future revenues	162.0	148.2
Other	4.0	4.7
Total Other Charges	166.0	152.9
Total long-term assets	4,986.8	4,789.7
<b>Total Assets</b>	<b>5,548.3</b>	<b>5,446.0</b>
<b>Deferred Outflow of Resources:</b>		
Unamortized loss on debt refundings	108.6	126.3
Changes in fair value of hedging derivatives	1.3	1.9
Unrealized contributions and losses related to pension	70.8	49.0
<b>Total Deferred Outflow of Resources</b>	<b>180.7</b>	<b>177.2</b>
<b>Total Assets and Deferred Outflow of Resources</b>	<b>\$ 5,729.0</b>	<b>\$ 5,623.2</b>

# LOWER COLORADO RIVER AUTHORITY

## STATEMENTS OF NET POSITION

*(Dollars in Millions)*

	June 30, 2017	June 30, 2016
<i>Liabilities</i>		
<b>Current Liabilities:</b>		
Accounts payable	\$ 63.1	\$ 50.1
Interest payable	21.8	21.5
Other current liabilities	66.2	71.9
Compensated absences	10.8	9.4
Bonds, notes, and loans payable	383.6	270.4
Total current liabilities	545.5	423.3
<b>Long-term Liabilities:</b>		
Accounts payable from restricted assets	26.5	13.5
Bonds, notes, and loans payable	3,393.2	3,542.3
Other credits and other long-term liabilities	109.6	111.5
Net pension liability	176.4	151.2
Total long-term liabilities	3,705.7	3,818.5
<b>Total liabilities</b>	4,251.2	4,241.8
<b>Deferred Inflow of Resources:</b>		
Regulatory credits from future recovery	24.1	32.5
Other	5.0	5.4
<b>Total Deferred Inflow of Resources</b>	29.1	37.9
<i>Net Position</i>		
Net investment in capital assets	796.4	744.0
Restricted for debt service	6.1	6.5
Restricted for capital projects	-	0.5
Restricted other	72.5	72.9
Unrestricted	573.7	519.6
<b>Total Net Position</b>	1,448.7	1,343.5
<b>Total Liabilities, Deferred Inflow of Resources, and Net Position</b>	\$ 5,729.0	\$ 5,623.2

**LOWER COLORADO RIVER AUTHORITY**  
**STATEMENTS OF REVENUES, EXPENSES AND**  
**CHANGES IN NET POSITION**

*(Dollars in Millions)*

	<b>Year Ended June 30,</b>	
	<b>2017</b>	<b>2016</b>
<b>Operating Revenues</b>		
Electric	\$ 930.1	\$ 957.6
Water, wastewater, and irrigation	25.4	27.0
Other	35.4	33.1
<b>Total Operating Revenues</b>	<u>990.9</u>	<u>1,017.7</u>
<b>Operating Expenses</b>		
Fuel	280.3	266.9
Purchased power	76.2	92.7
Operations	187.1	182.4
Maintenance	33.5	40.7
Depreciation, depletion and amortization	179.4	174.0
<b>Total Operating Expenses</b>	<u>756.5</u>	<u>756.7</u>
<b>Operating Income</b>	<u>234.4</u>	<u>261.0</u>
<b>Nonoperating Revenues (Expenses)</b>		
Interest income	5.2	4.6
Gain on disposition of property	21.7	1.6
Loss on disposition of property	(10.2)	(8.8)
Interest on debt	(161.5)	(165.4)
Other income	2.5	10.0
<b>Total Nonoperating Revenues (Expenses)</b>	<u>(142.3)</u>	<u>(158.0)</u>
Income Before Costs to be Recovered from Revenues, (Prior Costs Recovered from Revenues), Capital Contributions, and Special Item	92.1	103.0
Costs to be Recovered (Prior Costs Recovered) from Revenues	5.5	(50.4)
Capital Contributions	7.6	0.8
Special Item - Gain on Sale of Wastewater Systems	-	2.1
<b>Change in Net Position</b>	<u>105.2</u>	<u>55.5</u>
<b>Total Net Position, Beginning of Year</b>	<u>1,343.5</u>	<u>1,288.0</u>
<b>Total Net Position, End of Year</b>	<u>\$ 1,448.7</u>	<u>\$ 1,343.5</u>

# LOWER COLORADO RIVER AUTHORITY

## STATEMENTS OF CASH FLOWS

(Dollars in Millions)

	Year Ended June 30,	
	2017	2016
<b>Cash Flows From Operating Activities</b>		
Received from customers	\$ 976.1	\$ 1,047.2
Payments for goods and services	(384.0)	(386.5)
Payments to employees	(177.0)	(178.1)
Other receipts	1.9	7.9
Net cash provided by operating activities	<u>417.0</u>	<u>490.5</u>
<b>Cash Flows From Noncapital Financing Activities</b>		
Grant proceeds received	1.2	0.6
Other revenues	1.1	0.3
Net cash provided by noncapital financing activities	<u>2.3</u>	<u>0.9</u>
<b>Cash Flows From Capital and Related Financing Activities</b>		
Purchase of property, plant and equipment	(302.3)	(210.3)
Proceeds from sale of capital assets	23.3	8.7
Debt issue costs	(0.3)	(4.7)
Contributed capital received for capital costs	4.0	0.1
Proceeds from bonds and notes	-	616.3
Proceeds from commercial paper	119.2	128.4
Debt principal payments	(124.1)	(186.3)
Interest paid	(170.9)	(166.5)
Payments to refund and defease debt	(3.7)	(417.0)
Net cash used in capital and financing activities	<u>(454.8)</u>	<u>(231.3)</u>
<b>Cash Flows From Investing Activities</b>		
Sale and maturity of investment securities	484.5	586.6
Purchase of investment securities	(524.9)	(692.6)
Note payments and interest received	7.1	4.2
Net cash used in investing activities	<u>(33.3)</u>	<u>(101.8)</u>
<b>Net Increase (Decrease) in Cash and Cash Equivalents</b>	(68.8)	158.3
<b>Cash and Cash Equivalents, Beginning of Year</b>	<u>382.8</u>	<u>224.5</u>
<b>Cash and Cash Equivalents, End of Year</b>	<u>\$ 314.0</u>	<u>\$ 382.8</u>

# LOWER COLORADO RIVER AUTHORITY

## STATEMENTS OF CASH FLOWS

(Dollars in Millions)

	Year Ended June 30,	
	2017	2016
<b>Reconciliation of Operating Income to Net Cash</b>		
<b>Provided by Operating Activities</b>		
Operating income	\$ 234.4	\$ 261.0
Nonoperating income - cash arbitration award	-	9.0
Adjustments to reconcile operating income to net cash provided by operating activities:		
Depreciation, depletion and amortization	179.4	174.0
Changes in assets, liabilities, and deferred inflows and outflows of resources:		
Accounts receivable	5.9	(9.0)
Allowance for bad debt	0.1	(0.5)
Inventories	3.1	21.7
Other current assets	(1.2)	4.1
Current liabilities	4.6	12.3
Other long-term assets, charges and deferred outflow of resources	1.3	(2.6)
Other credits and other long-term liabilities, and deferred inflow of resources	(10.6)	20.5
Net cash provided by operating activities	<u>\$ 417.0</u>	<u>\$ 490.5</u>
<b>Noncash Financing &amp; Investing Activities</b>		
Investment market adjustments	\$ 2.8	\$ (0.6)
Capital assets financed through short-term liabilities	<u>\$ 17.1</u>	<u>\$ -</u>



# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

#### 1. Significant Accounting Policies

**Reporting Entity:** LCRA is a conservation and reclamation district created by the Texas Legislature in 1934. It receives no state tax money and cannot levy taxes. It operates on revenue from the sale of wholesale electricity, water and other services. The LCRA Board of Directors is appointed by the Texas governor, with state Senate approval, to serve six-year terms. The financial condition of LCRA is not controlled by or dependent on the State of Texas or any other political subdivision. Under the criteria set forth by GASB, LCRA considers its relationship to the State to be that of a related organization.

*GenTex Power Corporation (GenTex):* GenTex, a nonprofit corporation and wholly owned affiliated corporation of LCRA, is governed by a nine-member board appointed by the LCRA Board. Although it is a separate legal entity, GenTex is reported as part of LCRA because its sole purpose is to benefit LCRA.

LCRA and GenTex jointly own a combined-cycle, natural gas-fired generating unit that began operations in June 2001.

*LCRA Transmission Services Corporation (LCRA TSC):* LCRA TSC was created under the Texas Non-Profit Corporation Act under the Development Corporation Act of 1979. Although it is a separate legal entity, LCRA TSC is reported as part of LCRA because it is governed by a board of directors composed in its entirety of the LCRA Board.

*Fayette Power Project (FPP):* Three coal-fired generating units are located at FPP and operate pursuant to a participation agreement with the City of Austin. LCRA has an undivided 50 percent interest in units 1 and 2 and wholly owns Unit 3. LCRA's investment is financed with LCRA funds, and its pro-rata share of operations is recorded as if wholly owned. The original cost of LCRA's share of FPP's generation and transmission facilities is recorded in the utility plant accounts of LCRA in accordance with its accounting policies. The equity interest in FPP is calculated pursuant to the participation agreement and is reported in various asset and liability accounts within LCRA's financial statements. Operation expenses related to unloading, stack-out, handling of fuel and the disposal of ash are considered common to units 1, 2 and 3 and are allocated to LCRA and the City of Austin according to the number of tons of coal received.

*Sandy Creek Energy Station:* LCRA participates as a power purchaser and equity partner in the Sandy Creek Energy Station, a coal-fired electric generation plant located near Waco, Texas. The plant became operational in May 2013. LCRA is committed to purchase 11.14 percent of the generation from the plant. As an equity partner, LCRA owns an 11.13 percent undivided interest in the plant. The cost of LCRA's share of the plant is recorded in the utility plant accounts of LCRA. LCRA's equity interest in Sandy Creek and its share of expense are calculated pursuant to the participation agreement and are reported in various accounts within LCRA's financial statements. Power purchased from the plant is reflected as purchased power expense on LCRA's financial statements.

*LCRA Wholesale Energy Services Corporation (WSC Energy):* WSC Energy, a nonprofit corporation and wholly owned affiliated corporation of LCRA, was created in 2012 to market and sell electric power outside of LCRA's traditional service area. Although it is a separate legal entity, WSC Energy is reported as part of LCRA because it is governed by a board of directors comprised in its entirety of the LCRA Board.

**Basis of Accounting:** The accompanying financial statements of LCRA, a governmental entity, were prepared using proprietary fund and accrual basis accounting. LCRA follows GASB guidance.

LCRA's accounts are maintained in accordance with the Federal Energy Regulatory Commission's Uniform System of Accounts. The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions affecting the reported amounts of assets, deferred outflow of resources, liabilities, deferred inflow of resources, disclosure of contingent assets and liabilities at the date of the financial statements, and reported amounts of revenues and expenses during the reporting period. Actual results could differ from the estimates.

LCRA considers electric revenues and costs directly related to the generation, purchase, transmission and distribution of electricity to be operating revenues and expenses. Water and wastewater revenues and other services related to environmental laboratory operations, licensing and recreation and the costs directly related to

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

these services also are considered operating revenues and expenses. Revenues and expenses related to financing and other activities are reflected as nonoperating revenues and expenses.

**Newly Adopted Standards for FY 2017:** GASB Statement No. 79, *Certain External Investment Pools and Pool Participants*, addresses accounting and financial reporting for certain external investment pools and pool participants. Specifically, it establishes criteria for an external investment pool to qualify for making the election to measure all of its investments at amortized cost for financial reporting purposes. Statement No. 79 also establishes additional note disclosure requirements for qualifying external investment pools that measure all of their investments at amortized cost for financial reporting purposes and for governments that participate in those pools. Statement No. 79 did not have a material impact on LCRA's financial position, results of operations, and cash flows.

GASB Statement No. 80, *Blending Requirements for Certain Component Units – An Amendment of GASB Statement No. 14*, amends the blending requirements for financial statement presentation of component units of all state and local governments. The additional criterion requires blending of a component unit incorporated as a not-for-profit corporation in which the primary government is the sole corporate member. The additional criterion does not apply to component units included in the financial reporting entity pursuant to the provisions of Statement No. 39, *Determining Whether Certain Organizations Are Component Units*. Statement No. 80 did not have a material impact on LCRA's financial position, results of operations, and cash flows.

GASB Statement No. 82, *Pension Issues-An Amendment of GASB Statement No. 67, Statement No. 68 and Statement No. 73*, addresses certain issues that have been raised with respect to pension reporting. The amendment specifically addresses the presentation and clarification of payroll-related measures in required supplementary information. This statement clarifies the selection of assumptions and the treatment of deviations from the guidance in an Actuarial Standard of Practice for financial reporting purposes. Finally, this statement addresses the classification and recognition of payments made by employers to satisfy employee contribution requirements to the plan. Statement No. 82 did not have a material impact on LCRA's financial position, results of operations, and cash flows.

GASB Statement No. 86, *Certain Debt Extinguishment Issues*, improves consistency in accounting and financial reporting for in-substance defeasance of debt by providing guidance for transactions in which cash and other monetary assets acquired with only existing resources – resources other than the proceeds of refunding debt – are placed in an irrevocable trust for the sole purpose of extinguishing debt. Statement No. 86 also improves accounting and financial reporting for prepaid insurance on debt that is extinguished and notes to financial statements for debt that is defeased in substance. Statement No. 86 did not have a material impact on LCRA's financial position, results of operations, and cash flows.

**Issued, But Not Yet Effective Pronouncements:** GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pension (OPEB)*, replaces several GASB Statements related to OPEB. The primary objective of Statement No. 75 is to improve reporting by state and local governments for OPEB. The scope of the Statement addresses accounting and financial reporting for OPEB provided to the employees of state and local government employers. The statement establishes standards for recognizing and measuring OPEB liabilities, deferred outflows of resources, deferred inflows of resources, and expenses. The statement will be effective FY 2018. LCRA currently records Net OPEB liability and will see an increase on the Statements of Net Position, as LCRA will be recording the full unfunded liability. However, the OPEB valuation is bi-annual and impacts will be evaluated in November 2017 with the GASB release of the implementation guide to Statement No. 75.

**Major Customers and Electric Revenues:** Sales of electricity to LCRA's one major customer represented approximately 22 and 25 percent of total electric revenue for FY 2017 and FY 2016, respectively. One additional customer represented 10 percent of total electric revenue for FY 2016. No other customer represented more than 10 percent of LCRA's total electric revenues in FY 2017 or FY 2016.

Electric revenues represented approximately 94 and 96 percent of LCRA's operating revenues for FY 2017 and FY 2016, respectively.

Thirty-four of LCRA's existing wholesale customers, representing approximately 100 percent of LCRA's load, have entered into electric wholesale contracts that extend to 2041.

**Capital Contributions:** Capital contributions consist of donated assets, and grant-funded or customer contributions for capital-related work.

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**ERCOT Settlements Reporting:** LCRA reports wholesale purchases and sales of power with the Electric Reliability Council of Texas (ERCOT), an energy clearinghouse agent, as a net value. In FY 2017 and FY 2016, these settlements resulted in net sales of power by LCRA. These amounts are classified as a reduction to operating expenses and are \$71.6 million for FY 2017 and \$43.6 million for FY 2016.

**Restricted Funds:** Restricted funds consist of construction funds derived from debt issues, system revenues designated for specific purposes by the LCRA Board, and other funds with legal or contractual constraints. It is LCRA's policy to use restricted resources first for the specified purposes, then unrestricted resources if they are needed.

**Accounts Receivable and Allowance for Doubtful Accounts:** Net accounts receivable balances were \$153.8 million and \$155.1 million at June 30, 2017, and 2016, respectively. LCRA accounts receivable balances are subject to risk of nonpayment. Allowances to the account for that risk have been calculated based on a three-year average of customer write-offs, except in certain cases, where direct write-offs of receivables are recorded and are not included in the three-year average. The allowance for doubtful accounts balance was \$0.2 million and \$0.3 million at June 30, 2017, and 2016, respectively.

**Other Current Assets:** Other current assets are comprised primarily of prepaid items, advances and the current portion of other long-term assets. Other current assets balances were \$5.4 million and \$4.4 million on June 30, 2017 and 2016, respectively.

**Notes Receivable:** The notes receivable balances were \$15.9 million and \$16.5 million on June 30, 2017, and 2016, respectively. The balances on both June 30, 2017 and June 30, 2016, were primarily related to the sale of the West Travis County water/wastewater facility in FY 2012. This note balance on June 30, 2017, was \$14.5 million (\$15.1 million with a net discount of \$0.6 million). In FY 2017 and FY 2016 no current portion was recorded. Management believes these balances will be collected. As a result, there is no allowance for doubtful accounts related to the balances as of June 30, 2017, and 2016.

**Other Long-Term Assets:** Other long-term assets are comprised of prepaid rent on the LCRA General Office Complex land.

#### **Capital Assets:**

**Utility Plant:** Utility plant consists of generating plants, electric transmission and distribution facilities, capital spares, dams, reservoir land, natural gas production and development, irrigation systems, water utilities, telecommunications facilities, and related projects under construction, if any. These assets are recorded at cost, which includes materials, labor, overhead and interest capitalized during construction. The cost of repairs and minor replacements are charged to operating expense as incurred. Costs of asset replacements and betterments are capitalized. The net book value of a retired depreciable plant, along with removal expense less salvage value, is charged to nonoperating expense on the Statements of Revenues, Expenses and Changes in Net Position. Gains and losses upon disposition are recorded as nonoperating revenues or expenses in the period incurred. For FY 2017 and FY 2016, expenditures for long-lived items greater than \$1,000 are eligible to be capitalized, though LCRA allows for direct expensing of items where the costs associated with obtaining approval of and tracking a capital project are onerous.

**Intangible Assets:** Intangible assets primarily include water rights, easements, and internally generated software. Water rights and easements are stated at cost, they have an indefinite life, are not amortized, and are disclosed under the provisions of GASB Statement No. 51, *Accounting and Financial Reporting for Intangible Assets*. Internally generated software is included in the depreciable capital assets and is amortized over approximately five years. Easements are included in the nondepreciable utility plant in-service line item of the Statements of Net Position.

#### **Inventories**

**Fuel:** Stored natural gas and fuel oil are stated at average cost in both FY 2017 and FY 2016.

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**Nonfuel:** Nonfuel inventories are stated at the lower of cost or market using the average cost method and are subject to write-off when deemed obsolete. LCRA has established a reserve for excess and obsolete inventory which is based primarily on inventory aging and historical analysis. The reserve is intended to adjust the net realizable value of inventory LCRA may not be able to use due to obsolescence. The balance in the reserve was \$0.8 million on both June 30, 2017, and 2016.

**Investments:** LCRA's investments are stated at fair value. Any changes, unrealized and realized, in the fair value of financial investments are recorded as investment income.

**Bonds, Notes and Loans Payable:** LCRA reports the current portion of long-term debt, which includes all commercial paper and scheduled debt payments to be made within the next 12 months, as a current liability. LCRA debt includes outstanding long-term revenue bonds, commercial paper and other notes. Amortization of debt discount and premium is computed using the constant yield method over the life of the related bond issues.

**Refunding and Defeasance of Debt:** For debt refundings, the difference between the reacquisition price and the net carrying amount of the old debt is deferred and reported as a component of deferred inflows or outflows of resources. Losses created by refunding transactions are amortized over the shorter of the remaining terms of the new issues or the refunded bonds. These amounts are reported as deferred outflow of resources on the Statements of Net Position. The unamortized loss on debt refundings are \$108.6 million and \$126.3 million as of June 30, 2017, and 2016, respectively. Gains created by refunding transactions are amortized over the shorter of the remaining terms of the new issues or the refunded bonds. These amounts are reported as other deferred inflows of resources on the Statements of Net Position. The unamortized gain on debt refundings are \$0.5 million and \$0.6 million as of June 30, 2017, and 2016, respectively. For debt defeasances, the difference between the carrying amount of the debt and the amount of funds needed to retire the debt is recognized immediately in the Statements of Revenues, Expenses and Changes in Net Position as a gain or loss on early defeasance of debt, if material. If the difference is not material, it is recognized immediately as interest expense.

**Compensated Absences:** LCRA records employees' earned vacation leave as a liability and accrues for certain related expenses associated with the payment of compensated absences.

**Rates and Regulations:** LCRA's electric, water and wastewater rates are set by the LCRA Board at a level sufficient to recover its operating costs, debt service and debt service coverage requirements. LCRA's transmission service rates remain regulated by the PUC. While the LCRA Board has original jurisdiction over its water and wastewater rates, the PUC has appellate jurisdiction.

FY 2017 transmission revenues of \$391.0 million were the result of the rate in effect throughout FY 2017, which was \$5.84 per kilowatt. LCRA TSC has no current plans to file an interim update of wholesale transmission rates with the PUC in FY 2018.

FY 2016 transmission revenues of \$376.9 million were the result of rate changes authorized during the current fiscal year. The rates in effect throughout FY 2016 were: \$5.71 per kilowatt from July 1, 2015 through Oct. 1, 2015 and \$5.84 per kilowatt from Oct. 2, 2015 through June 30, 2016.

**Regulatory Assets and Deferred Inflows:** LCRA applies the accounting requirements of GASB Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements*. Accordingly, certain costs may be capitalized as a regulatory asset that otherwise would be charged to expense. A regulatory asset is recorded when it is probable that future revenue in an amount at least equal to the capitalized costs will result from inclusion of those costs in future rates. These regulatory assets, which are included under other charges, will be recovered through rates in future years, and consist of depreciation of debt-funded assets, costs related to outstanding debt and costs related to other postemployment benefits. LCRA's regulatory assets amounted to \$162.0 million and \$148.0 million on June 30, 2017, and 2016, respectively.

In addition, rate actions of the regulator may impose a regulatory credit on LCRA. A regulatory credit occurs when a regulator requires refunds to customers or provides current rates intended to recover costs expected to be incurred in the future. A regulatory credit is reported as a deferred inflow of resources on the Statements of Net Position. A regulatory credit is recognized and charged to income when the associated costs are incurred. The balance of regulatory credits also includes an over recovery of fuel costs. Regulatory credits amounted to \$28.1

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million and \$37.3 million on June 30, 2017, and 2016, respectively. Components of regulatory assets and regulatory credits are summarized in the table below:

<i>(Dollars in Millions)</i>	<u>June 30, 2017</u>	<u>June 30, 2016</u>
Regulatory assets:		
Deferred depreciation on debt-funded capital expenditures	\$ 11.4	\$ 2.4
Deferred pension costs and other post-retirement benefits costs	<u>150.6</u>	<u>145.6</u>
	\$ 162.0	\$ 148.0
Regulatory credits:		
Fuel cost over recovery - See note 9	\$ 2.6	\$ 19.9
Amounts collected from rates to be used for future costs	21.5	12.6
Amounts collected for pension costs	<u>4.0</u>	<u>4.8</u>
	\$ 28.1	\$ 37.3

**Fuel and Power Cost Recovery Factor (Fuel Factor):** Revenues from the sale of electricity include amounts collected through the fuel factor. LCRA records over- or under-recoveries of fuel costs as other current assets or deferred inflow of resources in the Statements of Net Position. These costs are a component of the fuel factor. Over-recoveries may result in credits to customers and under-recoveries may result in additional assessments to customers. LCRA over-recovered fuel costs by \$2.6 million as of June 30, 2017 and \$19.9 million as of June 30, 2016.

**Other Current Liabilities:** Other current liabilities are comprised primarily of transmission cost of service (TCOS) liabilities, property tax accruals, and accrued vendor payments.

**Other Credits and Other Long-term Liabilities:** Other credits and other long-term liabilities are \$109.6 million and \$111.5 million as of June 30, 2017, and 2016, respectively. Other credits and other long-term liabilities consist of environmental liabilities, supplemental executive retirement program liabilities, an accrual for other postemployment benefits, unearned revenues, and other long-term liabilities.

**Capitalized Interest:** Interest can be capitalized as a part of the cost of capital assets if the assets are financed by debt proceeds per regulatory accounting under GASB Statement No. 62. During FY 2017 and FY 2016, LCRA did not capitalize interest.

**Gas Price Management:** Spot prices for natural gas ranged from \$2.02 to more than \$3.77 per million British thermal units (MMBtu) in FY 2017. In an effort to mitigate the financial and market risk associated with these price fluctuations, LCRA entered into futures contracts, swaps and options. Derivative instruments are recorded on the Statements of Net Position at their fair values. Changes in the fair value of derivatives are recorded each period. LCRA is using GASB Statement No. 53, *Accounting and Financial Reporting for Derivative Instruments* accounting as a component of the fuel factor for its hedging derivatives. Gains and losses related to the hedging derivative contracts deemed ineffective hedges are recognized in current earnings. Gains and losses on financial contracts that are effective hedges are deferred on the Statements of Net Position. See Note 9, Derivative Instruments in the Notes to Financial Statements.

**Other Long-Term Liabilities:** In October 1999, LCRA entered into a long term water supply agreement with the City of Austin. LCRA used the proceeds related to the agreement to pay down debt related to the acquisition of water rights, purchase additional water rights, and help fund other programs related to its river management operations. LCRA had unearned revenues related to this agreement in the amounts of \$58.4 million, and \$62.1 million on June 30, 2017, and 2016, respectively.

# LOWER COLORADO RIVER AUTHORITY

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### As of and for the Years Ended June 30, 2017, and 2016

Changes in other long-term liabilities are as follows in millions of dollars:

Description	Balance			Balance			Balance
	June 30, 2015 <sup>(4)</sup>	Increase	(Decrease)	June 30, 2016 <sup>(4)</sup>	Increase	(Decrease)	June 30, 2017 <sup>(4)</sup>
Unearned Revenues - City of Austin <sup>(1)</sup>	\$ 63.9	\$	\$ (1.8)	\$ 62.1	\$	\$ (3.7)	\$ 58.4
Payables Related to Debt Funded Capital <sup>(2)</sup>	13.5	12.2	(14.0)	11.7	19.7	(11.7)	19.7
SAWS Project Advances <sup>(3)</sup>	5.2	0.3	(1.6)	3.9	0.2	(1.4)	2.7
Pension Liability-GASB Statement No. 68	102.8	48.4		151.2	25.2		176.4
Other Long-Term Liabilities	16.2	14.9	(22.3)	8.8	11.5	(6.0)	14.3
Total	\$ 201.6	\$ 75.8	\$ (39.7)	\$ 237.7	\$ 56.6	\$ (22.8)	\$ 271.5

<sup>(1)</sup> City of Austin water agreement liability (see Other Liabilities paragraph)

<sup>(2)</sup> Vendor, sales tax and salary payables related to debt-funded capital spending.

<sup>(3)</sup> Feasibility study with San Antonio Water System to address the long-term water needs in region. Balance on June 30, 2017 represents the long-term portion of payments owed to SAWS as the result of the termination of the project and related settlement. Annual payments are \$1.4 million.

<sup>(4)</sup> Balances exclude Other Postemployment Benefits (OPEB) payable. See Note 5 - Other Postemployment Benefits.

**Natural Gas Development and Production:** LCRA adopted the full-cost method of accounting for natural gas development and production. Under this method, all costs directly associated with acquisition and development of oil and gas properties are capitalized and depleted to expense over the life of proved reserves on a units-of-production method. Depletion expense totaled approximately \$0.1 million for both FY 2017 and FY 2016.

**Contract Extension Settlement with Major Customers:** According to the terms of a 1987 settlement with two major customers, the customers' wholesale power contracts were extended to 2016, and in return, LCRA reimbursed the customers for their costs incurred in planning generating facilities. These costs were amortized through December 31, 2016 per the settlement agreement. The amortization expenses were \$0.4 million and \$0.8 million for FY 2017 and FY 2016, respectively.

**Impairment:** LCRA evaluates the carrying value of its property, plant and equipment, and other long-lived assets when major events or changes in circumstances indicate a decline in an asset's service capacity. Impairment is measured using methods that isolate the asset's service capacity rendered unusable. There were no material impairments noted as of June 30, 2017, and 2016.

**Depreciation, Depletion and Amortization:** LCRA depreciates its plant in-service on a straight-line basis over the estimated useful lives of the various classes of these assets. Annual depreciation expense, expressed as a percentage of depreciable plant, was approximately 3.1 percent for FY 2017 and for FY 2016. Depreciation, depletion and amortization expense for FY 2017 and FY 2016 was \$179.4 and \$174.0 million, respectively.

The estimated useful life of property, plant and equipment by major category is as follows:

Hydraulic Production Plant	5 – 50 years
Steam Production Plant	10 – 40 years
Transmission Facilities	5 – 58 years
General Office Buildings	4 – 45 years
Irrigation Plant	5 – 70 years
Sewage and Water Treatment Plant	5 – 50 years
Telecommunication Facilities	5 – 45 years
Intangible Assets	5 years – Indefinite

**Statements of Cash Flows:** All highly liquid investments with a maturity at the time of acquisition of 90 days or less are considered cash equivalents, including investments in restricted funds.

**Statements of Net Position:** The Net Investment in Capital Assets is the portion of net position that consists of capital assets, net of accumulated depreciation, plus deferred outflows of resources, reduced by outstanding

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debt and construction contracts payable attributable to the acquisition, construction or improvement of those assets. Capital assets for the net investment computation include both capital assets and regulatory assets. In the event there are unspent proceeds from a bond issuance for the stated purpose of capital improvement, the outstanding debt is reduced by the amount not used for capital projects as of period end. As of June 30, 2017, and 2016, debt funded assets not related to capital assets included \$267.0 million and \$358.4 million, respectively in cash and investments restricted for future capital projects or debt service fund requirements.

The categories of restricted net position represent the portion of net position over which there are LCRA Board or externally imposed constraints as to its use. They consist of Board restricted reserves, bond sinking fund requirements, and construction fund cash and investments reduced by any related outstanding debt or deferred inflows of resources related to the debt. As of June 30, 2017, and 2016, these restricted categories of net position consisted of cash and investments of \$366.1 million and \$449.6 million, reduced by liabilities and deferred inflows of resources of \$287.5 and \$369.7 million, respectively.

Unrestricted net position is the share of net position that is neither restricted nor invested in capital assets.

## 2. Financial Instruments

As of June 30, 2017, and 2016, LCRA had the following investments and maturities:

Type of Investment	June 30, 2017		June 30, 2016	
	<i>(Dollars in Millions)</i>			
	Market Value	WAM (Years) <sup>1</sup>	Market Value	WAM (Years) <sup>1</sup>
<b>Investments</b>				
U.S. Government Securities	\$ 387.0	1.67	\$ 518.2	1.38
US Agency Notes <sup>2</sup>	124.4	2.48	-	-
Commercial Paper	44.6	0.68	-	-
<b>Cash Equivalents</b>				
Commercial Paper	-		30.0	0.16
Investment Pools	286.5	0.19	314.3	0.17
Total	<u>\$ 842.5</u>	1.23	<u>\$ 862.5</u>	0.89

### Cash and Investments as of June 30, 2017, and 2016, consisted of the following:

Cash	\$ 27.5	\$ 38.5
Investments and Cash Equivalents	842.5	862.5
Total Cash and Investments	<u>\$ 870.0</u>	<u>\$ 901.0</u>

<sup>1</sup>Weighted Average Maturity

<sup>2</sup>LCRA TSC held one callable U.S. Agency Note as of June 30, 2017

**External Investment Pool:** LCRA investments included an investment pool with TexPool on June 30, 2017, and 2016. The Texas Comptroller of Public Accounts oversees TexPool, and the pool seeks to maintain a \$1 value per share as required by the Texas Public Funds Investment Act. There are no minimum balance requirements for TexPool participants, and there is no limit on the number of accounts per participant.

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LCRA investments included an investment pool with Local Government Investment Cooperative (LOGIC) on June 30, 2017, and 2016. First Southwest Company and J.P. Morgan Investment Management, Inc. oversee LOGIC. The pool seeks to maintain a \$1 value per share as required by the Texas Public Funds Investment Act.

TexPool investments were \$140.7 million and \$144.4 million as of June 30, 2017 and 2016, respectively. Logic investments were \$145.8 million and \$169.9 million as of June 30, 2017 and 2016, respectively.

**Debt Service Reserve Funds:** LCRA has debt service reserve funds which include investments suitable to provide reserves to meet any shortfalls in funds available to make required debt service payments. Debt service reserve funds are not to be used except in the case of insufficient funds. As of June 30, 2017, and 2016, LCRA had investments in separate accounts holding U.S. Treasury notes and U.S. agency notes, held for the use of debt service reserves, totaling \$151.9 million and \$153.4 million, respectively.

**Interest Risk:** LCRA has no formal policy to address exposure to fair value losses resulting from changes in interest rates. However, in accordance with management policy, LCRA manages its exposure to changing interest rates by laddering the investment portfolio, matching maturities against liabilities when possible and holding investments to maturity.

**Credit Risk:** LCRA's investment activities are governed by the state statute Texas Public Funds Investment Act, which specifies the type and ratings of investments governmental entities are allowed to purchase. In addition, LCRA Board policy and internal operating procedures further restrict investment activities. The credit ratings of LCRA's investments and external investment pools are summarized in the table below.

Credit Risk	June 30, 2017		
	Moody's Ratings	Standard & Poor's Ratings	Fitch Ratings
TexPool investment pool		AAAm	
LOGIC investment pool		AAAm	
US Treasuries	Aaa	AA+u	AAA
US Agency Notes	Aaa	AA+	AAA <sup>1</sup>
Toyota Motor Corp.	P-1	A-1+	F-1
US Bank NA	P-1	A-1	F-1+

Credit Risk	June 30, 2016		
	Moody's Ratings	Standard & Poor's Ratings	Fitch Ratings
TexPool investment pool		AAAm	
LOGIC investment pool		AAAm	
US Treasuries	Aaa	AA+u	AAA
Toyota Motor Corp.	P-1	A-1+	F-1
US Bank NA	P-1	A-1+	F-1+
General Electric Co.	P-1	A-1+	

<sup>1</sup>US agency note issued by FHLB not rated by Fitch

**Reporting Requirements:** Under GASB Statement No. 72, *Fair Value Measurement and Application*, LCRA is required to disclose the valuation technique and level of inputs for all investments. One of the acceptable valuation techniques, and that which LCRA uses is the market approach. The market approach is defined as: using prices and other relevant information generated by market transactions involving identical or similar assets, liabilities or a group



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of assets or liabilities, such as quoted prices. GASB Statement No. 72 also requires assets and liabilities to be categorized into three levels. LCRA's investments in treasuries, commercial paper and notes are valued at a Level 1 input, defined as quoted prices for identical assets or liabilities in active markets LCRA can access at the measurement date. LCRA uses Bloomberg Finance LP Service to quote investment market price by uniquely identifying each security with the Committee on Uniform Security Identification Procedures (CUSIP) ID.

### 3. Long-term Debt and Commercial Paper

Changes in long-term debt, including current portions, are as follows in millions of dollars:

Series	Balance			Balance			Balance	Amount Due
	June 30, 2015	Increase	(Decrease)	June 30, 2016	Increase	(Decrease)	June 30, 2017	in FY 2018
LCRATSC 2006A	\$ 102.1		(102.1)	\$ -			\$ -	
LCRATSC 2008	144.7		(7.6)	137.1		(7.1)	130.0	6.6
LCRATSC 2009	118.6		(1.0)	117.6		(1.0)	116.6	1.0
LCRATSC 2010	182.4		(4.0)	178.4		(6.3)	172.1	12.5
LCRATSC 2011A	340.9		(16.3)	324.6		(16.6)	308.0	16.8
LCRATSC 2011B	152.5		(15.2)	137.3		(15.2)	122.1	15.1
LCRATSC 2013	303.7		(6.4)	297.3		(6.6)	290.7	6.8
LCRATSC 2013A	195.7			195.7			195.7	
LCRATSC 2015	246.0		(5.0)	241.0		(4.2)	236.8	4.4
LCRATSC 2016	-	190.0		190.0		(2.3)	187.7	6.3
LCRA 1999A	88.9		(88.9)	-			-	
LCRA 2001	25.1		(25.1)	-			-	
LCRA 2001A	19.7		(19.7)	-			-	
LCRA 2002	16.1		(14.9)	1.2			1.2	
LCRA 2003	1.5		(1.5)	-			-	
LCRA 2004D	0.1		(0.1)	-			-	
LCRA 2006	-			-			-	
LCRA 2008	0.2		(0.2)	-			-	
LCRA 2008A	24.6		(6.1)	18.5		(0.5)	18.0	8.2
LCRA 2009	146.6		(3.2)	143.4		(3.4)	140.0	3.5
LCRA 2010	120.4		(68.1)	52.3		(11.7)	40.6	12.4
LCRA 2010A	222.1		(6.3)	215.8		(6.4)	209.4	6.9
LCRA 2010B	103.6		(7.1)	96.5		(6.4)	90.1	6.6
LCRA 2012A	272.2		(5.6)	266.6		(6.3)	260.3	6.5
LCRA 2012B	176.6		(1.3)	175.3		(5.4)	169.9	5.6
LCRA 2013	184.0		(4.1)	179.9		(4.3)	175.6	4.5
LCRA 2015 A	23.3			23.3			23.3	
LCRA 2015 B	96.6			96.6			96.6	
LCRA 2015 C	-	234.8		234.8			234.8	
LCRA 2015 D	-	133.9	(24.3)	109.6		(20.4)	89.2	
Unamortized Net Premium	203.7	66.6	(29.2)	241.1		(27.3)	213.8	5.6
Subtotal	\$ 3,511.9	\$ 625.3	\$ (463.3)	\$ 3,673.9	\$ -	\$ (151.4)	\$ 3,522.5	\$ 129.3
Tax-Exempt Commercial Paper/Private Notes	176.0	128.4	(165.6)	138.8	119.2	(3.7)	254.3	254.3
Total	\$ 3,687.9	\$ 753.7	\$ (628.9)	\$ 3,812.7	\$ 119.2	\$ (155.1)	\$ 3,776.8	\$ 383.6 <sup>(1)</sup>

(1) Total amount due in FY 2017 was \$270.4 million.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

Interest rates and maturity dates for bonds, notes and commercial paper as of June 30, 2017, are as follows:

<u>Series</u>	<u>From</u>	<u>To</u>
LCRA TSC 2008 (5.00%-5.25%)	2018	2035
LCRA TSC 2009 (4.25%-5.50%)	2018	2036
LCRA TSC 2010 (4.00%-5.00%)	2018	2040
LCRA TSC 2011A (4.50%-5.00%)	2018	2041
LCRA TSC 2011B (5.00%)	2018	2026
LCRA TSC 2013 (3.25%-5.00%)	2018	2043
LCRA TSC 2013A (5.00%)	2024	2036
LCRA TSC 2015 (3.00%-5.00%)	2018	2045
LCRA TSC 2016 (3.00%-5.00%)	2018	2046
LCRA 2002 (5.00%)	2027	2031
LCRA 2008A (5.00%-5.75%)	2018	2023
LCRA 2009 (5.00%-5.625%)	2018	2039
LCRA 2010 (4.00%-5.00%)	2018	2020
LCRA 2010A (5.00%)	2018	2040
LCRA 2010B (3.625%-5.00%)	2018	2024
LCRA 2012A (5.00%)	2018	2039
LCRA 2012B (3.00%-5.00%)	2018	2037
LCRA 2013 (4.125%-5.50%)	2018	2039
LCRA 2015A (3.00%-5.00%)	2021	2037
LCRA 2015B (3.25%-5.00%)	2020	2031
LCRA 2015C (2.50%-5.00%)	2021	2045
LCRA 2015D (3.75%-5.00%)	2019	2032
Commercial paper <sup>(1)</sup>		
Private notes <sup>(2)</sup>		

<sup>(1)</sup> Commercial paper rates are variable as of June 30, 2017. Rates ranged from 0.77 percent to 0.98 percent, with maturities of 270 days or less from their respective issue dates.

<sup>(2)</sup> Private note rates are variable as of June 30, 2017. Rates ranged from 1.38 percent to 1.63 percent, with maturities of 364 days or less from their respective issue dates.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

LCRA's debt as of June 30, 2017, was rated by Moody's, Standard & Poor's and Fitch, as follows:

Debt Program	June 30, 2017		
	Moody's Ratings	S&P Ratings	Fitch Ratings
LCRA Refunding and Improvement Revenue Bonds	A2 (Stable)	A (Stable)	A (Stable)
LCRA Tax-Exempt Commercial Paper Series B	P-1	A-1+	F-1+
LCRA Tax-Exempt Commercial Paper Series A	Inactive	Inactive	Inactive
LCRA Transmission Services Corporation Contract Refunding Revenue Bonds	A1 (Stable)	A (Stable)	A+ (Stable)
LCRA Transmission Services Corporation Tax-Exempt Commercial Paper Series	P-1	A-1	F-1+
LCRA Transmission Services Corporation Tax-Exempt Commercial Paper Series B	Inactive	Inactive	Inactive

Bond and note debt payments, excluding commercial paper, are as follows in millions of dollars:

	<u>Ending June 30.</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2018	\$	123.7	\$ 159.8	\$ 283.5
2019		115.6	154.0	269.6
2020		129.1	148.2	277.3
2021		141.0	141.9	282.9
2022		141.0	134.9	275.9
2023-2027		689.0	570.3	1,259.3
2028-2032		752.7	394.9	1,147.6
2033-2037		676.4	215.2	891.6
2038-2042		393.6	79.3	472.9
2043-2046		146.6	12.9	159.5
	\$	3,308.7	\$ 2,011.4	\$ 5,320.1
Unamortized Net Premium		213.8		213.8
Total	\$	3,522.5	\$ 2,011.4	\$ 5,533.9

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

**New and Refunding Bonds:** The following schedules summarize new and refunding bonds as of June 30, 2017 and June 30, 2016, respectively.

#### FY 2017

(Dollars in Millions)

Program	Issued Amount	Commercial Paper / Private Note Repayment	Debt Repayment	Debt Defeasance	Accounting Gain / (Loss)	Reduction to Aggregate Debt Service Payment	Economic Gain
Commercial Paper / Private Notes Refunding Bonds <sup>2</sup>	\$ 119.2 <sup>1</sup>	\$ (3.7)	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 119.2</b>	<b>\$ (3.7)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<sup>1</sup> Commercial paper and private notes issuances used to fund capital projects in FY 2017 were \$3.8 million for LCRA and \$115.4 million for LCRA TSC, respectively.

<sup>2</sup> No refunding bonds issued.

#### FY 2016

(Dollars in Millions)

Program	Issued Amount	Commercial Paper Repayment	Debt Repayment	Debt Defeasance	Accounting Gain / (Loss)	Reduction to Aggregate Debt Service Payment	Economic Gain
Commercial Paper Refunding Bonds	\$ 128.4 <sup>1</sup>	\$ (9.6)	\$ -	\$ -	\$ -	\$ -	\$ -
LCRA Refunding Revenue Series 2015C <sup>2</sup>	234.8	(36.0)					
LCRA Refunding Revenue Series 2015D <sup>3</sup>	133.9		(146.9)		(37.0)	5.7	12.1
LCRA TSC Refunding Revenue Series 2016 <sup>4</sup>	190.0	(120.0)	(97.7)		0.6	21.0	16.0
Defeasance related to sale of wastewater system				(3.1) <sup>5</sup>			
<b>Total</b>	<b>\$ 687.1</b>	<b>\$ (165.6)</b>	<b>\$ (244.6)</b>	<b>\$ (3.1)</b>	<b>\$ (36.4)</b>	<b>\$ 26.7</b>	<b>\$ 28.1</b>

<sup>1</sup> Commercial paper issuances used to fund capital projects in FY 2017 were \$26.9 million for LCRA and \$101.5 million for LCRA TSC, respectively.

<sup>2</sup> LCRA refunding revenue series 2015C issued with a net premium. The bond proceeds are to be used for the Lane City Reservoir project; the proceeds were used to pay down \$36.0 million in commercial paper, \$35.4 million was retained in the LCRA construction fund, \$7.9 million was placed in a 2015C debt service reserve fund, and \$0.3 million was placed in an issue cost reserve. The remaining \$174.1 million was placed in an escrow account at Bank of New York.

<sup>3</sup> LCRA refunding revenue series 2015D issued with a net premium. The bond proceeds were used to pay down \$146.9 million in previously outstanding, LCRA 1999A, 2001, 2001A, and 2002 Revenue Bonds.

<sup>4</sup> LCRA TSC refunding revenue series 2016 issued with a net premium. This was an advance refunding in which the bond proceeds were used to pay off \$97.7 million of the remaining LCRA TSC 2006A Revenue Bonds. The series was also a refunding of \$120.0 million in tax-exempt commercial paper.

<sup>5</sup> LCRA 2001A, 2003, and 2004D revenue bonds.

The principal associated with the bonds that have been previously refunded by LCRA but remain outstanding at June 30, 2017 and 2016, totaled \$136.7 million and \$200.9 million, respectively. There was no principal outstanding at June 30, 2017, associated with the bonds that have been previously refunded by LCRA TSC; the related amount was \$97.7 million at June 30, 2016. Proceeds from these refunding bond issues were escrowed to purchase U.S. government obligations that will mature at such time, and yield interest at such amounts, so sufficient monies are available for payment of principal, premium, if any, and interest on the refunded bonds when due. None of these refunded bonds are included in LCRA's outstanding long-term debt on June 30, 2017, and 2016.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

**Optional Redemption:** The following bonds are redeemable at the option of LCRA according to the following schedule:

<b>Series</b>	<b>Redeemable on or after:</b>	<b>In increments of:</b>	<b>At a redemption price of:</b>	<b>Maturing on and after:</b>
LCRA TSC 2008	May 15, 2018	5,000	100 + accrued interest	May 15, 2019
LCRA TSC 2009	May 15, 2019	5,000	100 + accrued interest	May 15, 2020
LCRA TSC 2010	May 15, 2020	5,000	100 + accrued interest	May 15, 2021
LCRA TSC 2011A	May 15, 2021	5,000	100 + accrued interest	May 15, 2022
LCRA TSC 2011B	May 15, 2021	5,000	100 + accrued interest	May 15, 2022
LCRA TSC 2013	May 15, 2022	5,000	100 + accrued interest	May 15, 2023
LCRA TSC 2013A	May 15, 2023	5,000	100 + accrued interest	May 15, 2024
LCRA TSC 2015	May 15, 2025	5,000	100 + accrued interest	May 15, 2026
LCRA TSC 2016	May 15, 2026	5,000	100 + accrued interest	May 15, 2027
LCRA 2002	Currently Callable	5,000	100 + accrued interest	
LCRA 2008A	May 15, 2018	5,000	100 + accrued interest	May 15, 2019
LCRA 2009	May 15, 2019	5,000	100 + accrued interest	May 15, 2020
LCRA 2010A	May 15, 2020	5,000	100 + accrued interest	May 15, 2021
LCRA 2010B	May 15, 2020	5,000	100 + accrued interest	May 15, 2021
LCRA 2012A	May 15, 2022	5,000	100 + accrued interest	May 15, 2023
LCRA 2012B	May 15, 2022	5,000	100 + accrued interest	May 15, 2023
LCRA 2013	May 15, 2023	5,000	100 + accrued interest	May 15, 2024
LCRA 2015A	May 15, 2025	5,000	100 + accrued interest	May 15, 2026
LCRA 2015B	May 15, 2025	5,000	100 + accrued interest	May 15, 2026
LCRA 2015C	May 15, 2025	5,000	100 + accrued interest	May 15, 2026
LCRA 2015D	May 15, 2025	5,000	100 + accrued interest	May 15, 2026

LCRA bonds outstanding as of June 30, 2017, and 2016, are parity debt under the Master Resolution and are collateralized by a lien on and pledge of revenues. Pledged revenues include all amounts received pursuant to contractual commitments and all lawfully available LCRA funds. The LCRA Transmission Contract Revenue Bonds Series 2008, 2009, 2010, 2011A, 2011B, 2013, 2013A, 2015 and 2016 are solely secured by the obligation of LCRA TSC to make installment payments to LCRA from the net revenues of LCRA TSC (subordinate to first lien on gross revenues securing the purchase price payments under the initial contractual commitment). Net revenues are defined as gross revenues less any purchase price payments due to LCRA and less the operating and maintenance expenses during the period.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

**Commercial Paper and Private Notes:** LCRA is authorized to issue short term debt under ten separate board approved programs. The following schedule summarizes the commercial paper and private note programs at June 30, 2017.

(Dollars in Millions)

<u>Program</u>	<u>Status</u>	<u>Taxability</u>	<u>Board Approved Program</u>	<u>Program Expiration Date</u>	<u>Facility Available</u>	<u>Facility Expiration Date</u>	<u>Amount Outstanding</u>
LCRA TSC Project Tax-Exempt Series Commercial Paper	Active	Tax-Exempt	\$ 200.0	May 15, 2042	\$ 200.0	April 25, 2018	\$ 95.4
LCRA TSC Tax-Exempt Series B Commercial Paper	Inactive	Tax-Exempt	150.0	May 15, 2042	NA	NA	-
LCRA TSC Private Revolving Note Program Series C	Active	Both	150.0	May 01, 2027	100.0	June 26, 2020	20.0
LCRA TSC Private Revolving Note Program Series D	Active	Tax-Exempt	100.0	May 01, 2027	100.0	June 19, 2020	-
LCRA Tax-Exempt Series A Commercial Paper	Inactive	Tax-Exempt	350.0	May 15, 2020	NA	NA	-
LCRA Taxable Series A Commercial Paper	Inactive	Taxable	350.0	May 15, 2020	NA	NA	-
LCRA Taxable/Tax-Exempt Series B Commercial Paper	Active	Both	250.0	May 15, 2032	150.0	Sep. 10, 2018	58.9
LCRA Taxable/Tax-Exempt Private Revolving Note Series C	Active	Both	100.0	May 15, 2025	60.0	Jan. 25, 2019	25.0
LCRA Taxable/Tax-Exempt Private Revolving Note Series D	Active	Both	100.0	May 01, 2027	100.0	May 01, 2020	5.0
LCRA Taxable/Tax-Exempt Private Revolving Note Series E	Active	Both	75.0	May 01, 2027	75.0	May 01, 2020	50.0
<b>Total</b>			<b>\$ 1,825.0</b>		<b>\$ 785.0</b>		<b>\$ 254.3</b>

<sup>(1)</sup> Permitted to issue either taxable, or tax-exempt debt under a commercial paper/private revolving note.

The proceeds from these LCRA and LCRA TSC programs can be used to provide system improvements, acquire fuel reserves and facilities, refund outstanding debt, and pay interest on outstanding debt. All debt under the commercial paper programs is issued in minimum denominations of \$100,000. Note programs have various denominations. Failure by LCRA or LCRA TSC to meet certain restrictive covenants under any of these agreements could result in the withdrawal of the banks' commitments for the unused line of credit. There were no borrowings under any of the facility agreements as of June 30, 2017, and 2016.

The total outstanding commercial paper for LCRA and LCRA TSC at June 30, 2017 was \$58.9 and \$95.4 million, respectively. The total outstanding commercial paper for LCRA and LCRA TSC at June 30, 2016 was \$138.8 million and \$0.0 million, respectively. There were \$80.0 million and \$20.0 million in outstanding notes at June 30, 2017, respectively for both LCRA and LCRA TSC. There were no outstanding notes at June 30, 2016. Both LCRA and LCRA TSC issue commercial paper on a regular basis. Therefore, any issuances of commercial paper or notes after June 30, 2017 are not considered subsequent events and are not disclosed in the Notes to the Financial Statements.

**Letters of Credit:** LCRA maintains one facility with a bank for the issuance of a letter of credit. On June 30, 2017, a \$40.0 million letter of credit was outstanding under the facility. The facility will expire on Jan. 6, 2018.

**Mandatory Redemption:** A number of LCRA's term bonds are subject to mandatory sinking fund redemption at the redemption price, which equals the principal amount plus accrued interest, to the redemption date. The particular bonds or portions thereof to be redeemed are to be selected and designated by LCRA (provided a portion of a bond may be redeemed only in integral multiples of \$5,000). The mandatory sinking fund redemption dates range from May 15, 2020, to May 15, 2046.

**Estimation of Fair Value:** The fair value measurements of long-term debt were estimated based on published market prices, and were \$3.9 billion and \$4.4 billion at June 30, 2017, and 2016, respectively.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

**Debt Covenant Requirements:** LCRA has no quantitative ratios, calculations or requirements to maintain any level of debt service coverage by long-term debt covenants. There are no quantitative ratios, calculations or debt service coverage requirements in any credit facility agreements for LCRA debt obligations. As of June 30, 2017, LCRA is in compliance with its long-term debt covenants and credit facility agreements.

LCRA TSC is required by its long-term debt covenants to maintain annual revenues sufficient to:

- I. produce a 1.25x coverage ratio on certain payments under the Initial Contractual Commitment due LCRA;
- II. pay all Operating and Maintenance Expenses;
- III. produce a 1.25x coverage ratio on debt service on existing LCRA TSC debt and any other parity debt;
- IV. pay all other debt of LCRA TSC;
- V. produce amounts to fund any required capital charge coverage ratios required by the financial policies of LCRA TSC and to accumulate the required funds in any debt service reserve fund or any other funds of LCRA TSC

There are no additional quantitative ratios or calculations required by credit facility agreement for LCRA TSC. As of June 30, 2017, LCRA TSC is in compliance with all of its long-term debt covenants and credit facility agreements.

#### 4. Retirement and 401(K) Plan Benefits

**Plan Description:** The LCRA Retirement Benefits Board of Trustees is the administrator of the single-employer defined benefit pension plan sponsored by the LCRA. The LCRA Board has sole authority to amend the plan. The plan issues a stand-alone report pursuant to GASB Statement No. 67, which is available from the Board of Trustees. The report includes all information about the plan fiduciary net position. The report may be obtained by writing the LCRA Retirement Benefits Board of Trustees at P. O. Box 220, Austin, TX 78767.

As of the plan date, the Lower Colorado River Authority Retirement Plan and Trust is in compliance with GASB Statement No. 72. Under Statement No. 72, LCRA is required to disclose the valuation technique and level of inputs for all investments. One of the acceptable valuation techniques, and that which LCRA uses, is the market approach. The market approach is defined as: “using prices and other relevant information generated by market transactions involving identical or similar assets, liabilities or a group of assets or liabilities, such as quoted prices.” Statement No. 72 also requires assets and liabilities to be categorized into three levels.

Level 1 inputs are quoted (unadjusted) prices in active markets for identical assets or liabilities the government can access at the measurement date. Observable markets include exchange markets, dealer markets, brokered markets and principal-to-principal markets.

Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. These inputs are derived from or corroborated by observable market data through correlation or by other means, e.g., quoted prices for similar assets or liabilities in active markets quoted prices for identical or similar assets or liabilities in inactive markets; or, market-corroborated inputs.

Level 3 inputs are unobservable inputs for the asset or liability; they should be used only when relevant Level 1 and Level 2 inputs are unavailable. Governments may use their own data to develop unobservable inputs if there is no information available without undue cost and effort.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

The following is a summary of the pension plan investments by fair level value:

Asset Category	Cash	Level 1	Level 2	Level 3	Total
<i>(Dollars in Millions)</i>					
Cash and Cash Equivalents	\$ 24.3	\$	\$	\$	\$ 24.3
Fixed Income		104.1			104.1
Equity		74.9	198.3		273.2
Total	\$ 24.3	\$ 179.0	\$ 198.3	\$ -	\$ 401.6

**Benefits Provided:** Eligible LCRA employees hired before May 1, 2012, are covered by the plan, which provides retirement, death and disability benefits. Effective Jan. 1, 2002, the plan was amended to provide cash-balance benefits for all employees employed or reemployed on or after Jan. 1, 2002, who become plan participants. Active employees as of Dec. 31, 2001, were given the opportunity through the LCRA Retirement Choice Program to elect to become participants under cash-balance provisions (cash-balance participants) or to remain under the pension provisions (pension participants).

A pension participant's retirement benefit for each year of service is 1.75 percent of the highest five-year average monthly compensation plus 0.4 percent of that portion of the highest five-year average monthly compensation which exceeds the monthly integration level. The monthly integration level is a sliding scale based upon the calendar year in which termination of employment occurs, with the level being \$3,245 for those terminating employment in 2016 and increasing to \$3,300 for those terminating employment in 2020, and later. The retirement benefits for pension participants became 100 percent vested after three years of vesting service. Pension participants may retire with unreduced accrued benefits at age 65 with five years of employment or when the total of age and service equals 80. There are no automatic or guaranteed post-retirement cost of living adjustments, but ad hoc retiree benefit increases may be granted by plan amendment. Pension participants are not required to contribute to the plan, although the plan retains employee contributions and associated liabilities from plan years prior to April 1, 1984, when the plan did require employee contributions.

All employees initially employed or reemployed by the LCRA on or after Jan. 1, 2002, and before May 1, 2012, who complete three consecutive months of credited service are eligible to participate in the plan as a cash-balance participant. The cash-balance account consists of a beginning balance, monthly contribution credits and monthly interest credits. The beginning balance is zero unless the cash-balance participant was employed prior to Jan. 1, 2002, in which case the beginning balance is the pension plan lump sum value, if any, as of Dec. 31, 2001, or, if greater, the transition value determined as of Dec. 31, 2001. The transition value was based on credited service and compensation averaged over 60 months of employment as of Dec. 31, 2001. Contribution credits are equal to 4.0 percent of compensation paid during a month. Interest credits are added at the end of each month to the cash-balance account based on an annual effective interest rate of 7.0 percent. Cash-balance participants became 100.0 percent vested after three years of service

#### Employees Covered by the Plan:

In the fiscal year actuarial valuation, the following numbers of employees were covered by the plan:

	2017	2016
Retirees and beneficiary in pay status	860	808
Vested terminated and disabled deferred beneficiaries	93	107
Active plan members	1,227	1,306
Total Participants	2,180	2,221



# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

**Contributions:** At its March 21, 2012 meeting, the LCRA Board amended the plan to close it to new entrants effective May 1, 2012. Given the closing of the plan to new entrants, the plan's actuaries recommended a new funding policy beginning with the plan year April 1, 2012 - March 31, 2013. The LCRA Board has sole authority to determine the employer's contribution, taking into consideration the actuaries' recommended contribution.

In order for a public employee retirement plan to have an adequate contribution arrangement, contributions must be sufficient to pay the plan's normal cost and to amortize the plan's Net Pension Liability over a reasonable period of time. Based on the professional judgment of the plan's actuaries and the actuarial assumptions and methods used in the April 1, 2012 valuation, the actuaries recommended the amortization period for the plan be 25 years beginning April 1, 2012. Given the closed group of employee participants, the amortization of the Net Pension Liability was switched from level percent of participant payroll contributions to level dollar contributions.

Based on this funding policy, the actuaries' recommended contributions for the plan periods ending Dec. 31, 2017 and Dec. 31, 2016, are \$20.1 million and \$17.9 million payable as of Jan. 1, 2018, and Jan. 1, 2017, respectively. For FY 2017 and FY 2016, the total recommended contributions are \$20.5 million and \$18.6 million, respectively. These amounts will fund the plan's normal cost for the fiscal years and will amortize the Net Pension Liability at a level dollar amount over the remaining 21 and 22 years respectively. There are no required contributions by the participants; however some employee contributions are made to purchase optional credited service.

The funding policy also depends upon the total return of the plan's assets, which varies from year to year. Investment policy decisions are established and maintained by the LCRA Retirement Benefits Board of Trustees. The board employs and selects investment managers with the advice of their investment consultant who is completely independent of the investment managers. For the years ending Dec. 31, 2016 and Mar. 31, 2016 the money-weighted rate of return on pension plan investments was 3.8 percent and 0.2 percent, respectively. This measurement of the investment performance is net of investment-related expenses, reflecting the effect of the contributions received and the benefits paid during the year.

**Net Pension Liability:** LCRA's net pension liability was measured as of Dec. 31, 2016, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of Jan. 1, 2017.

2017	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a)-(b)
	<i>(Dollars in Millions)</i>		
<b>Amounts as of June 30, 2016<sup>1</sup></b>	\$ 551.2	\$ 400.0	\$ 151.2
<b>Changes for the year:</b>			
Service cost	5.0		5.0
Interest	30.1		30.1
Differences between expected and actual experience	7.6		7.6
Contributions by the employer		15.1	(15.1)
Contributions by the participants		0.7	(0.7)
Net investment income		14.9	(14.9)
Benefit payments	(27.5)	(27.5)	
Administrative expenses		(0.1)	0.1
Assumption changes	12.4		12.4
Purchase of optional credited service	0.7		0.7
Plan amendments			
<b>Net changes</b>	<b>28.3</b>	<b>3.1</b>	<b>25.2</b>
<b>Amounts as of June 30, 2017<sup>2</sup></b>	<b>\$ 579.5</b>	<b>\$ 403.1</b>	<b>\$ 176.4</b>

<sup>1</sup> Measurements for the fiscal year ended June 30, 2016, were taken as of March 31, 2016.

<sup>2</sup> Measurements for the fiscal year ended June 30, 2017, were taken as of Dec. 31, 2016.

LCRA's net pension liability was measured as of FY 2016, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of Dec. 31, 2016.

**LOWER COLORADO RIVER AUTHORITY**  
**NOTES TO FINANCIAL STATEMENTS**  
**As of and for the Years Ended June 30, 2017, and 2016**

2016	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a)-(b)
<i>(Dollars in Millions)</i>			
<b>Amounts as of June 30, 2015<sup>1</sup></b>	\$ 517.8	\$ 415.0	\$ 102.8
<b>Changes for the year:</b>			
Service cost	6.5		6.5
Interest	38.1		38.1
Differences between expected and actual experience	4.6		4.6
Contributions by the employer		21.1	(21.1)
Contributions by the participants		1.2	(1.2)
Net investment income		0.8	(0.8)
Benefit payments	(38.1)	(38.1)	
Assumption changes	21.0		21.0
Purchase of optional credited service	1.2		1.2
Plan amendments	0.1		0.1
<b>Net changes</b>	<b>33.4</b>	<b>(15.0)</b>	<b>48.4</b>
<b>Amounts as of June 30, 2016<sup>2</sup></b>	<b>\$ 551.2</b>	<b>\$ 400.0</b>	<b>\$ 151.2</b>

<sup>1</sup> Measurements for the fiscal year ended June 30, 2015, were taken as of March 31, 2015.

<sup>2</sup> Measurements for the fiscal year ended June 30, 2016, were taken as of March 31, 2016.

**Optional Credited Service:** Under certain conditions, plan members may purchase optional credited service once they are 100.0 percent vested. After crediting such optional service, employees would be eligible for immediate payment of an early retirement or normal retirement benefit. Plan members may purchase optional credited service to accelerate fulfilling the rule of 80, early retirement or normal retirement eligibility or to increase the amount of an early retirement or normal retirement benefit to which the employee would otherwise be entitled with recognition of optional credited service. A rollover from the employees LCRA 401(k) plan account, LCRA deferred compensation plan account or from any other monetary sources (e.g., checking account) can be used to purchase the optional credited service.

**Actuarial Assumptions:** The total pension liability in the Jan.1, 2017 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Actuarial cost method	Entry age
Amortization method	Level amount, closed period
Remaining amortization period	21 years for year ending Dec. 31, 2016; 22, 23 and 24 years, respectively, for years ending March 31, in 2016, 2015 and 2014
Asset valuation method	5-year smoothed market
Inflation	3.0 percent for year ending Dec. 31, 2016; 3.25 percent for years ending March 31, in 2016, 2015 and 2014
Salary increases	3.5 percent plus merit and promotion increases that vary by age and service for year ending Dec. 31, 2016; 4.0 percent plus merit and promotion increases that vary by age and service for years ending March 31, in 2016, 2015 and 2014
Investment rate of return	7.25 percent for year ending Dec. 31, 2016; 7.5 percent, net of pension plan investment expense, for years ending March 31, in 2016, 2015 and 2014
Retirement age	Rates that vary by age and service
Mortality	RP-2000 Combined Healthy Mortality Table for males and for females (sex distinct) projected to 2018 by scale AA

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

Mortality rates were based on the RP-2000 Combined Healthy Mortality Table for males and for females (gender distinct) projected to 2018 by scale AA. The assumed retirement rates, termination rates, and rates of merit and promotion increases were based on an experience study over the five plan years ending in 2010.

The long-term expected rate of return on pension plan investments is reviewed annually and was determined using a building-block method in which expected future net real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These components are combined to produce the long-term expected rate of return by weighting the expected future net real rates of return by the target asset allocation percentage (4.53 percent in 2017 and 4.46 percent in 2016), and by adding expected inflation (3.0 percent in 2017 and 3.25 percent in 2016). In addition, the final 7.25 percent assumption was selected by "rounding down" and reflects a reduction of 0.03 percent for adverse deviation in 2016.

**Investment Policies:** The LCRA Board approved the Lower Colorado River Authority Retirement Plan and Trust, as most recently amended and restated effective April 1, 1994. Section 9.01 created the LCRA Retirement Board of Trustees. The board was delegated the responsibility to administer the plan in accordance with its terms, and all powers necessary to accomplish that purpose including, but not limited to, the right, power and authority to: (1) employ and supervise an investment consultant to assist the board in selection and ongoing evaluation of one or more investment managers, the establishment of investment objectives and guidelines, and the allocation of plan assets among the various investments, and (2) select, employ and compensate, pension trust consultants, actuaries, accountants, attorneys, and investment managers, as the board deems necessary and advisable for the proper and efficient administration of the plan.

The board administers the plan. The plan is a defined benefit pension plan maintained to provide retirement benefits and/or death benefits to participants and their beneficiaries. The board is charged by law with the overall responsibility for the administration of the plan's assets. The board is authorized and permitted to delegate its responsibilities to investment managers who possess the necessary specialized research facilities and skilled professionals, to act as prudent experts in investing the plan's assets. In keeping with responsibilities under applicable laws, the Master Statement defines the plan's investment objectives and discusses the plan's tolerance for risk and volatility. The Master Statement also communicates to the investment managers their duties and responsibilities, and the investment objectives of this plan.

The primary goal of the plan is to provide participants and their beneficiaries with retirement benefits according to the plan's provisions. The plan's assets must be invested with the care, skill, and diligence that a prudent expert acting in this capacity would undertake. The investment objective of the plan is to invest the funds within the framework of the Master Statement and in such a manner as to achieve a reasonable growth while maintaining a consistent payout capability. The minimum expected total return is the actuarial assumption approved by the board on an annualized basis. The actuarial rate of return is net of expenses. This is a long-term goal designed to maximize the benefits available without exposure to undue risk.

The target plan assets allocation is: 22.0 percent large cap domestic equities, 5.5 percent small cap domestic equities, 15.0 percent long/short equity, 27.5 percent international equities, 15.0 percent domestic fixed income, 10.0 percent absolute return and 5.0 percent global fixed income. There were no changes to this target in the current plan year.

**LOWER COLORADO RIVER AUTHORITY**  
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The target allocation and expected arithmetic net real rates of return for each major asset class changed between 2016 and 2017 and will not be presented in a comparative table. FY 2017 is summarized in the following table:

2017		
Asset Class	Target Allocation	Long-Term Expected Net Real Rate of Return
Domestic equity		
Large cap	22.0%	6.37%
Small cap	5.5	5.95
International equity		
Developed	20.0	6.23
Emerging	7.5	7.55
Fixed income		
Core	15.0	1.71
Global	5.0	1.94
Alternatives		
Long/short equity	15.0	3.23
Absolute return	10.0	1.56
Total	100.0%	
Weighted average		4.53%

The target allocation and expected arithmetic net real rates of return for each major asset class are summarized for 2016 in the following table:

2016		
Asset Class	Target Allocation	Long-Term Expected Net Real Rate of Return
Domestic equity		
Large cap	22.0%	6.37%
Small cap	5.5	5.95
International equity		
Developed	20.0	6.10
Emerging	7.5	7.55
Fixed income		
Core	15.0	1.71
Global	5.0	1.94
Alternatives		
Long/short equity	15.0	2.85
Absolute return	10.0	1.62
Total	100.0%	
Weighted average		4.46%

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

**Discount Rate:** The discount rate used to measure the total pension liability was 7.25 percent in 2017 and 2016. No projection of cash flows was used to determine the discount rate because the Jan. 1, 2017, and April 1, 2016 actuarial valuations showed expected contributions would pay the normal cost and amortize the Net Pension Liability in 21 and 22 years, respectively. For FY 2017, because of the 21-year amortization period with level dollar amortization of the Net Pension Liability, the pension plan's fiduciary net position was expected to be available to make all projected future benefit payments of current active and inactive members. The long-term expected rate of return on pension plan investments of 7.25 percent was applied to all periods of projected benefit payments as a discount rate to determine the total pension liability.

For FY 2017, the Net Pension Liability was based on an actuarial value of assets that was \$6.3 million less than the plan fiduciary net position as of March 31, 2016. Because of the 21-year amortization period with the lower value of assets and with level dollar amortization of the Net Pension Liability, the pension plan's fiduciary net position was expected to be available to make all projected future benefit payments of current active and inactive members. The long-term expected rate of return on pension plan investments of 7.25 percent was applied to their respective period's projected benefit payments as the discount rate to determine the total pension liability in FY 2016.

**Sensitivity of the Net Pension Liability to Changes in the Discount Rate:** The following presents LCRA's net pension liability for FY 2017 and FY 2016, respectively. The net pension liability was calculated using the discount rate of 7.25 percent in 2017 and 7.25 percent in 2016, as well as the employer's net pension liability would be if it were calculated using a discount rate 1-percentage-point lower (6.25 percent in 2017 and in 2016) or 1-percentage-point higher (8.25 percent in 2017 and 2016) than the current rate:

<i>(Dollars in Millions)</i>			
<b>2017</b>	<b>1 Percent Decrease (6.25%)</b>	<b>Current Discount Rate (7.25%)</b>	<b>1 Percent Increase (8.25%)</b>
Employer's Net Pension Liability	\$234.5	\$176.4	\$126.5

<i>(Dollars in Millions)</i>			
<b>2016</b>	<b>1 Percent Decrease (6.25%)</b>	<b>Current Discount Rate (7.25%)</b>	<b>1 Percent Increase (8.25%)</b>
Employer's Net Pension Liability	\$206.8	\$151.2	\$103.5

**Plan Fiduciary Net Position:** The plan fiduciary net position reported above is the same as reported by the plan. Detailed information about the plan fiduciary net position is available in the plan's separately issued audited financial statements, which are reported using the economic resources measurement focus and accrual basis of accounting in conformity with accounting principles generally accepted in the U.S. Revenues are recorded when earned, and expenses are recorded when a liability is incurred, regardless of the timing of the related cash flows. Investments are reported at fair value.

**Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions:** For the years ended June 30, 2017, and 2016, LCRA's GASB Statement No. 68 pension expense was \$25.2 million, and \$22.4 million, respectively. Amounts recognized in the fiscal year are for the plan year between the current and prior measurement dates.

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**Components of Pension Expense for the Fiscal Year Ended**

	2017	2016
	<i>(Dollars in Millions)</i>	
Service Cost	\$ 5.0	\$ 6.5
Interest	30.1	38.1
Projected earnings on pension plan investments	(21.4)	(29.5)
Amortization of differences between expected and actual experience on plan investments	5.9	4.6
Amortization of changes in assumptions	4.7	2.8
Amortization of differences between expected and actual experience	0.9	(0.2)
Pension plan administrative expenses		
Plan amendments		0.1
Total pension expense	<u>\$ 25.2</u>	<u>\$ 22.4</u>

**Deferred Outflows of Resources and Deferred Inflows of Resources to Be Recognized in Pension Expense in Future Years**

2017	Deferred Outflows of Resources	Deferred Inflows of Resources
	<i>(Dollars in Millions)</i>	
Net difference between projected and actual earnings on pension plan investments	\$ 22.6	\$
Changes of assumptions	25.9	
Differences between expected and actual experience	9.9	4.0
Subtotal	<u>\$ 58.4</u>	<u>\$ 4.0</u>
Contributions subsequent to measurement date	12.4	
Total	<u>\$ 70.8</u>	<u>\$ 4.0</u>

2016	Deferred Outflows of Resources	Deferred Inflows of Resources
	<i>(Dollars in Millions)</i>	
Net difference between projected and actual earnings on pension plan investments	\$ 22.0	\$
Changes of assumptions	18.2	
Differences between expected and actual experience	4.0	4.8
Subtotal	<u>\$ 44.2</u>	<u>\$ 4.8</u>
Contributions subsequent to measurement date	4.8	
Total	<u>\$ 49.0</u>	<u>\$ 4.8</u>

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

Amounts reported as deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year Ended June 30	Net of Deferred Outflows Less Deferred Inflows
	<i>(Dollars in Millions)</i>
2018	\$ 11.5
2019	14.0
2020	12.7
2021	7.0
2022	5.7
Therafter	3.5
Total	\$ 54.4

A total of \$12.4 million and \$4.8 million were contributed subsequent to the measurement dates of the net pension liabilities for FY 2017 and FY 2016, respectively. The amounts are deferred outflows of resources that were recognized as a reduction in the net pension liability in the fiscal years ending June 30, 2017, and 2016, respectively.

**401(k) Plan:** The LCRA’s Retirement Benefits Board of Trustees administers this single-employer defined contribution plan. The plan is accounted for on the accrual basis and all assets are recorded at fair value. The plan offers the choice of making pretax contributions, Roth (after taxes) contributions or a combination of both. The plan has received a favorable determination letter from the Internal Revenue Service and is exempt from federal income taxes, under the appropriate section of the Internal Revenue Code. Amendments to the plan are made only with LCRA Board approval.

Employees are eligible to participate in the plan immediately upon employment. Eligible employees who elect to participate in the plan may contribute a minimum of 1.0 percent of their annual compensation, up to a maximum not to exceed \$18,000 in both 2017 and 2016. Employees age 50 or older may contribute an additional \$6,000 in both 2017 and 2016.

Effective Jan. 1, 2002, employees under Program A of the pension plan receive an LCRA matching contribution equal to 25.0 percent of the first 4.0 percent of compensation the employee elected to contribute to the plan. Under Program B of the pension plan, LCRA provides matching contributions equal to 100 percent of the first 4.0 percent of compensation and 50.0 percent of the next 2.0 percent of compensation the employee elected to contribute to the plan. Contributions made by the employer and employee are vested immediately.

Employees hired on or after May 1, 2012 are eligible to participate in retirement Program C only. New hires are automatically enrolled in the plan unless they elect otherwise within 30 days of hire. LCRA provides matching contributions equal to 100.0 percent of the first 8.0 percent of compensation. Employees may make contributions on a pretax basis, Roth (after tax) basis, or a combination of the two from 1.0 percent of their income up to the maximum set by the IRS. LCRA matching contributions and related earnings will be vested after three years of service. Employee contributions and related earnings are immediately vested. Both employer and employee contributions are immediately vested for employees who are rehired.

Contributions by the LCRA and its employees for the years ended June 30, 2017 and 2016 are presented below:

	2017	2016
	<i>(Dollars in Millions)</i>	
<b>Employer contributions</b>	\$ 6.4	\$ 5.5
<b>Employee contributions</b>	12.0	11.9

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

#### 5. Other Postemployment Benefits

**Plan Description:** The LCRA Employees' Post-Retirement Health Benefits Program (OPEB Plan) is a single-employer defined benefit healthcare plan administrated by the LCRA Board. The OPEB Plan provides postemployment healthcare benefits to retirees and terminated employees eligible for such benefits. The OPEB Plan does not issue a stand-alone financial report. Amendments to the OPEB Plan are made only with LCRA Board approval.

**Funding Policy:** In January 2011, LCRA began funding employee and retiree medical healthcare claim costs (see Note 6 in the Notes of Financial Statements). The LCRA OPEB funding policy pays only for current healthcare costs. LCRA contributes a portion of healthcare costs for retirees but makes no contribution for terminated employees. LCRA may contribute up to 80 percent of the total healthcare costs (cost share amount) depending on the retiree's retirement option choice (see Note 4 in the Notes of the Financial Statements). For Program A retirees, LCRA contributes 100 percent of the cost share amount. For Program B and Program C retirees, LCRA may contribute 0, 25, 50, 75 or 100 percent of the cost share amount based on the retiree's length of service. In FY 2017 and FY 2016, retirees contributed \$3.1 million and \$3.3 million respectively toward their health care costs.

**Annual OPEB Cost and Net OPEB Obligation:** The Annual Required Contribution (ARC) to the OPEB Plan is actuarially determined as of each valuation date. Actuarial valuations are performed on the OPEB Plan every two years. The ARC represents a level of funding that, if paid on an ongoing basis, is projected to cover the normal cost each year and amortize any unfunded actuarial liabilities over a period not to exceed 30 years. The LCRA OPEB funding policy pays only for current health care costs, which means no assets were set aside for future benefits. A net OPEB obligation exists at year-end. The following represents the ARC, OPEB cost, contributions made, and changes in the net OPEB obligation for FY 2017 and FY 2016:

	<b>Year Ended June 30,</b>	
	<b>2017</b>	<b>2016</b>
	<i>(Dollars in Millions)</i>	
Annual required contribution	\$ 10.0	\$ 9.6
Interest on net OPEB obligation, beginning of year	1.6	1.4
Adjustment to annual required contribution	(1.3)	(1.2)
Annual OPEB cost (expense)	10.3	9.8
Contributions made - LCRA	(7.8)	(7.9)
Increase in net OPEB obligation	2.5	1.9
Net OPEB obligation, beginning of year	38.5	36.6
Net OPEB obligation, end of year	<u>\$ 41.0</u>	<u>\$ 38.5</u>

LCRA's annual OPEB cost, the percentage of the annual OPEB cost contributed and the net OPEB obligation for FY 2015 through FY 2017 were:

**Unaudited**  
*(Dollars in Millions)*

Fiscal Year Ended	Annual OPEB Cost	Percentage of Annual OPEB Cost Contributed	Net OPEB Obligation
June 30, 2015	\$ 11.1	101%	\$ 36.6
June 30, 2016	9.8	81	38.5
June 30, 2017	10.3	76	41.0



# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

**Funded Status and Funding Progress:** The Schedule of Funding Progress (unaudited), is designed to present multi-year trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liabilities for future benefits. The schedule is presented below and immediately following the notes to the financial statements.

**Unaudited**  
(Dollars in Millions)

Actuarial Valuation Date <sup>1</sup>	(1) Actuarial Value of Assets	(2) Actuarial Accrued Liability Entry Age	(3) Funded Ratio (1)/(2)	(4) Unfunded Actuarial Accrued Liability (2)-(1)	(5) Annual Covered Payroll <sup>2</sup>	(6) Unfunded Actuarial Accrued Liability as a Percentage of Covered Payroll (4)/(5)
July 1, 2011	\$ -	\$ 213.1	0%	\$ 213.1	144.5%	147%
July 1, 2013	-	211.7	0	211.7	135.8	156
July 1, 2015	-	180.8	0	180.8	128.4	141

<sup>1</sup> Actuarial valuations are only required on a biennial basis.

<sup>2</sup> Based on projected payroll as of valuation date.

**Actuarial Methods and Assumptions:** Actuarial valuations of an ongoing plan involve estimates of the value of reported amounts and assumptions about the probability of events far into the future. Examples include, but are not limited to, assumptions about future employment, mortality and future health care costs. Actuarially determined amounts are subject to periodic revisions as actual results are compared with past expectations and new estimates are made about the future.

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and the plan members). The plan included types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan member to that point. Actuarial calculations reflect a long-term perspective. Consistent with that perspective, the actuarial methods and assumptions used include techniques designed to reduce short-term volatility in actuarial accrued liabilities and the actuarial value of assets.

In the July 1, 2015, actuarial valuation, the Entry Age Normal cost method was used. The actuarial assumptions included a 4.0 percent discount rate, a 3.25 percent inflation rate and a projected annual health care cost trend rate of 7.5 percent for FY 2015 reduced by decrements of 0.5 percent to an ultimate rate of 5.5 percent after six years. As of the July 1, 2015, valuation, the Unfunded Actuarial Accrued Liability is being amortized on an open basis as a level 7.48 percent of projected payroll over a 30-year amortization period.

There were changes in benefit provisions from the prior valuation so that all retirees and spouses will participate at ages 65 and over in a package of plans to supplement Medicare and the Medicare prescription drug plan, causing the actuarial accrued liability to decrease from \$211.7 million in FY 2013 to \$180.8 million in FY 2015 (see table above).

## 6. Commitments and Contingencies

**Construction:** LCRA construction commitments through calendar year 2022 total \$87.3 million for LCRA, with \$72.3 million committed through calendar year 2018.

**Cash Arbitration Award:** In FY 2016, LCRA received a cash arbitration award in the amount of \$0.6 million and LCRA was released from any other obligation with the vendor, which included an \$8.4 million retainage on a contractor payable related to the incident. \$9.0 million is reflected as nonoperating revenues on the Statements of Revenues, Expenses and Changes in Net Position.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

**Leases:** LCRA leases and operates certain transmission facilities and equipment owned by eight of its wholesale electric customers. The leases are the basis for LCRA to provide the same service to all of its customers and for the cost of such service to be shared by all customers on a consistent basis. Payments for the leased facilities vary from year to year, are based on the original cost of the facilities, adjusted for depreciation, and are updated annually to reflect additions, retirements and depreciation. The terms of the leases are perpetual but may be terminated by LCRA or the lessors upon five years written notice. LCRA also leases a portion of its office facilities and towers and related space to provide shared communications with a number of public entities. As of June 30, 2017, three lessors have notified LCRA of their intent to terminate their lease within five years, the earliest of which will occur in January 2020. LCRA's lease payments totaled approximately \$12.7 million and \$13.0 million in FY 2017 and FY 2016, respectively. Leases associated with transmission facilities comprise approximately 86 percent of total LCRA leases for FY 2017.

The following is a schedule by year of future minimum rental payments required under these operating leases for the remaining noncancellable lease terms as of June 30, 2017:

*(Dollars in Millions)*

Fiscal Year	Minimum Lease Payments
2018	\$ 12.7
2019	12.7
2020	12.8
2021	12.8
2022	12.8

**Coal Contracts:** The fuel for FPP comes from mines in Wyoming's Powder River Basin and more than half of the annual fuel requirements are planned or being planned to be supplied under annual and multi-year contracts.

LCRA coal and related transportation commitments for calendar years 2017 - 2018 total approximately \$225.0 million. Both the Union Pacific Railroad and the BNSF Railway Company have transportation access to FPP. Currently, LCRA and Austin Energy use a variable rate long-term transportation contract to deliver coal to FPP.

**Natural Gas:** LCRA has several long-term contracts to provide a portion of the natural gas requirements to its gas-fired generation units through 2020. LCRA is committed to buy a fixed amount of gas annually. LCRA's gas purchases under these contracts totaled \$85.4 million for FY 2017. LCRA paid \$2.0 million in FY 2017 for firm transportation rights on intrastate pipelines to deliver gas from supply points.

**Purchased Power:** LCRA has no contract with power marketers who provide firm electric energy in FY 2017. LCRA has a 30-year power purchase agreement to purchase 11.14 percent of the capacity and associated energy from Sandy Creek Energy Station. LCRA is committed to paying a capacity payment and a portion of O&M and fuel costs of the plant based on contract terms.

**Wind Power:** In FY 2017, LCRA had two contracts for the purchase of up to 251 megawatts of wind energy from Papalote Creek Wind Farm and Indian Mesa Wind Farm. As of October 2016, LCRA has not accepted any energy and is paying liquidated damages to Papalote Creek Wind Farm per the contract. Liquidated damages paid in FY 2017 were \$17.1 million and were collected from customers during FY 2017. The contract limits LCRA's liability to \$60 million. The remaining liquidated damages to be paid by LCRA in FY 2018 and FY 2019 will be collected from customers in future periods. LCRA is in litigation regarding the liquidated damages cap, but will continue to pay liquidated damages. The term of the contract for wind from Indian Mesa Wind Farm ended in December 2016.

**Water Project Study:** In FY 2012, San Antonio Water Systems (SAWS) and LCRA settled a lawsuit filed by SAWS against LCRA. As part of the settlement LCRA agreed to pay SAWS \$1.4 million per year for eight years, without interest, beginning Nov. 1, 2012. The remaining payments of \$4.2 million are being recovered from LCRA's water customers as payments are made.

**Insurance Self-Funding:** In addition to the purchase of commercial insurance, LCRA has established a self-insurance program to finance risk of loss. In the normal course of business, LCRA is exposed to various risks of loss related to torts; theft of, damage to and destruction of assets; errors and omissions; injuries to employees; natural disasters; and employee medical costs.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

LCRA self-funds each worker's compensation claim up to \$0.75 million. Self-funding of property damage ranges from \$0.1 million to \$2.0 million depending on the insurance deductible for the loss event. Several commercial liability insurance policies cover liability claims up to the policy limits after meeting the deductibles. Based on an insurance risk analysis, LCRA carries no commercial insurance on transmission lines or dam structures. Settled claims have not exceeded commercial insurance limits in any of the past three fiscal years.

LCRA pays active employees' and pre-65 retirees' medical and pharmacy claims up to \$275,000 per covered member per plan year. Claims incurred and paid in a plan year above the limit are reimbursed to LCRA through stop loss insurance. Both groups contribute premiums for their coverage. The accrued liability presented in the table below is associated with obligations resulting from workers' compensation, long-term disability liabilities, and medical claims for employees and retirees. Currently, no materially adverse impacts are anticipated.

Changes in the accrued liability amount for FY 2015 through FY 2017 were (dollars in millions):

	<b>Balance Beginning of Year</b>	<b>Claims<sup>1</sup></b>	<b>Payments</b>	<b>Balance End of Year</b>
FY 2015	3.1	26.5	(26.8)	2.8
FY 2016	2.8	23.1	(22.5)	3.4
FY 2017	3.4	23.8	(24.3)	2.9

<sup>1</sup> Net of contributions and rebates.

**Single audit:** LCRA has received federal and state grants for specific purposes subject to review and audit by the grantor agencies. Such audits could lead to requests for reimbursements to the grantor agency for expenditures disallowed under terms of the grants. LCRA believes such disallowances, if any, would be immaterial.

**LOWER COLORADO RIVER AUTHORITY**  
**NOTES TO FINANCIAL STATEMENTS**  
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**7. Capital Asset Activity**

Capital asset activity for the year ended June 30, 2017, was as follows:

	Beginning Balance	Additions	Transfers from Construction in Progress	Retirements	Depreciation	Ending Balance
<i>(Dollars in Millions)</i>						
Utility plant in service:						
Depreciable assets	\$ 5,636.9	\$	\$ 197.9	\$ (23.0)	\$	\$ 5,811.8
Non-depreciable assets	296.9		2.0	(1.3)		297.6
Total utility plant in service	5,933.8	-	199.9	(24.3)	-	6,109.4
Construction work in progress:						
Non-depreciable assets	150.3	308.5	(201.5)			257.3
Oil and gas property:						
Depletable assets	28.2					28.2
Other physical property:						
Depreciable assets	52.5		1.6	(0.5)		53.6
Non-depreciable assets	19.1	0.8				19.9
Total other physical property	71.6	0.8	1.6	(0.5)	-	73.5
Less accumulated depreciation	(2,167.5)	-		11.3	(178.7)	(2,334.9)
Intangible assets - water rights	101.7					101.7
Other intangible assets		9.2			(0.1)	9.1
<b>Capital assets, net</b>	<b>\$ 4,118.1</b>	<b>\$ 318.5</b>	<b>\$ -</b>	<b>\$ (13.5)</b>	<b>\$ (178.8)</b>	<b>\$ 4,244.3</b>

Capital asset activity for the year ended June 30, 2016, was as follows:

	Beginning Balance	Additions	Transfers from Construction in Progress	Retirements	Depreciation	Ending Balance
<i>(Dollars in Millions)</i>						
Utility plant in service:						
Depreciable assets	\$ 5,534.2	\$	\$ 128.5	\$ (25.8)	\$	\$ 5,636.9
Non-depreciable assets	291.6		5.5	(0.2)		296.9
Total utility plant in service	5,825.8	-	134.0	(26.0)	-	5,933.8
Construction work in progress:						
Non-depreciable assets	84.2	198.6	(135.1)	2.6		150.3
Oil and gas property:						
Depletable assets	28.2					28.2
Other physical property:						
Depreciable assets	51.7		0.8			52.5
Non-depreciable assets	19.1		0.2	(0.2)		19.1
Total other physical property	70.8	-	1.0	(0.2)	-	71.6
Less accumulated depreciation	(2,008.3)			13.9	(173.1)	(2,167.5)
Intangible assets - water rights	101.7					101.7
<b>Capital assets, net</b>	<b>\$ 4,102.4</b>	<b>\$ 198.6</b>	<b>\$ (0.1)</b>	<b>\$ (9.7)</b>	<b>\$ (173.1)</b>	<b>\$ 4,118.1</b>

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

## 8. Segment and Component Unit Reporting

Governments using enterprise fund accounting and reporting standards to report activities are required to present segment information. A segment is an identifiable activity reported as or within an enterprise fund or another stand-alone entity having one or more bonds outstanding with a revenue stream pledged in support of that debt.

Governments that have legally separate organizations for which the primary government is responsible are required to present component units. For segment and component unit reporting, the activities' revenues, expenses, gains and losses, assets, deferred outflow of resources, liabilities and deferred inflow of resources are required to be accounted for separately. LCRA TSC qualifies as a component unit and segment. GenTex Power Corporation and LCRA WSC qualify as component units.

Segment and component unit information for LCRA TSC:

### LCRA TRANSMISSION SERVICES CORPORATION

#### STATEMENTS OF NET POSITION

(Dollars in Millions)

	June 30, 2017	June 30, 2016
<b>Assets</b>		
<b>Current Assets:</b>		
Cash and cash equivalents	\$ 45.7	\$ 50.4
Unrestricted investments	74.7	104.2
Receivables, net	68.3	57.7
Inventories, net	15.7	2.0
Other	0.7	0.3
Total current assets	<u>205.1</u>	<u>214.6</u>
<b>Long-term Assets:</b>		
Restricted cash and cash equivalents	-	11.3
Unrestricted investments	49.9	20.1
Accounts receivable from LCRA - restricted	95.6	95.4
Capital assets:		
Depreciable:		
Utility plant in service	2,726.9	2,600.8
Less: accumulated depreciation	(719.7)	(653.5)
Depreciable capital assets, net	<u>2,007.2</u>	<u>1,947.3</u>
Nondepreciable:		
Utility plant in service	260.8	260.2
Construction work in progress	89.8	57.4
Nondepreciable capital assets	<u>350.6</u>	<u>317.6</u>
Other charges:		
Costs to be recovered from future revenues	-	11.6
Prepaid capital expense	46.6	19.2
Other charges, net	46.6	30.8
Total long-term assets	<u>2,549.9</u>	<u>2,422.5</u>
<b>Total Assets</b>	<u>2,755.0</u>	<u>2,637.1</u>
<b>Deferred Outflow of Resources:</b>		
Unamortized loss on debt refundings	43.9	49.7
<b>Total Deferred Outflow of Resources</b>	<u>43.9</u>	<u>49.7</u>
<b>Total Assets and Deferred Outflow of Resources</b>	<u>\$ 2,798.9</u>	<u>\$ 2,686.8</u>

**LOWER COLORADO RIVER AUTHORITY**  
**NOTES TO FINANCIAL STATEMENTS**  
As of and for the Years Ended June 30, 2017, and 2016

**LCRA TRANSMISSION SERVICES CORPORATION**  
**STATEMENTS OF NET POSITION**

*(Dollars in Millions)*

	Year Ended June 30,	
	2017	2016
<i>Liabilities</i>		
<b>Current Liabilities:</b>		
Accounts payable to LCRA	\$ 18.8	\$ 5.3
Accounts payable	7.1	0.7
Interest payable	11.6	10.8
Other current liabilities	28.4	30.9
Bonds, notes, and loans payable	199.9	80.5
<b>Total current liabilities</b>	<u>265.8</u>	<u>128.2</u>
<b>Long-term Liabilities:</b>		
Accounts payable to LCRA from construction fund	3.0	14.6
Accounts payable from restricted assets	16.1	3.3
Bonds, notes, and loans payable	1,876.2	1,971.1
Other credits	0.7	0.7
<b>Total long-term liabilities</b>	<u>1,896.0</u>	<u>1,989.7</u>
<b>Total Liabilities</b>	<u>2,161.8</u>	<u>2,117.9</u>
<b>Deferred Inflow of Resources:</b>		
Regulatory credits from future recovery	4.7	-
Other	0.5	0.6
<b>Total Deferred Inflow of Resources</b>	<u>5.2</u>	<u>0.6</u>
<i>Net Position</i>		
Net investment in capital assets	421.3	375.4
Restricted for capital projects	-	0.5
Unrestricted	210.6	192.4
<b>Total Net Position</b>	<u>631.9</u>	<u>568.3</u>
<b>Total Liabilities, Deferred Inflow of Resources</b>		
<b>Net Position</b>	<u>\$ 2,798.9</u>	<u>\$ 2,686.8</u>

**LOWER COLORADO RIVER AUTHORITY**  
**NOTES TO FINANCIAL STATEMENTS**  
As of and for the Years Ended June 30, 2017, and 2016

**LCRA TRANSMISSION SERVICES CORPORATION**  
**STATEMENTS OF REVENUES, EXPENSES AND**  
**CHANGES IN NET POSITION**

*(Dollars in Millions)*

	Year Ended June 30,	
	2017	2016
<b>Operating Revenues</b>		
Transmission	\$ 391.0	\$ 376.9
Transformation	13.8	13.6
Other	1.0	0.5
<b>Total Operating Revenues</b>	<u>405.8</u>	<u>391.0</u>
<b>Operating Expenses</b>		
Operations	124.6	116.0
Maintenance	9.2	7.9
Depreciation and amortization	73.3	67.2
<b>Total Operating Expenses</b>	<u>207.1</u>	<u>191.1</u>
<b>Operating Income</b>	<u>198.7</u>	<u>199.9</u>
<b>Nonoperating Revenues (Expenses)</b>		
Interest income	1.5	1.6
Gain on disposition of property	0.1	-
Loss on disposition of property	(10.1)	(10.4)
Interest on debt	(89.2)	(91.5)
Other expenses	(19.0)	(18.9)
<b>Total Nonoperating Revenues (Expenses)</b>	<u>(116.7)</u>	<u>(119.2)</u>
Income Before Prior Costs Recovered from Revenues, Capital Contributions and Transfers Out	82.0	80.7
<b>Prior Costs Recovered from Revenues</b>	(16.3)	(23.9)
<b>Capital Contributions</b>	4.4	0.1
<b>Transfers Out</b>	(6.5)	(7.1)
<b>Change in Net Position</b>	63.6	49.8
<b>Total Net Position, Beginning of Year</b>	568.3	518.5
<b>Total Net Position, End of Year</b>	<u>\$ 631.9</u>	<u>\$ 568.3</u>

**LOWER COLORADO RIVER AUTHORITY**  
**NOTES TO FINANCIAL STATEMENTS**  
As of and for the Years Ended June 30, 2017, and 2016

**LCRA TRANSMISSION SERVICES CORPORATION**  
**STATEMENTS OF CASH FLOWS**

*(Dollars in Millions)*

	Year Ended June 30,	
	2017	2016
<b>Cash Flows From Operating Activities</b>		
Receipts from customers	\$ 395.2	\$ 401.6
Payments to suppliers	(163.7)	(127.3)
Net cash provided by operating activities	<u>231.5</u>	<u>274.3</u>
<b>Cash Flows From Noncapital Financing Activities</b>		
Other expenses	(19.0)	(18.9)
Transfers out	(6.5)	(7.1)
Net cash used in noncapital financing activities	<u>(25.5)</u>	<u>(26.0)</u>
<b>Cash Flows From Capital and Related Financing Activities</b>		
Purchase of property, plant and equipment	(164.7)	(118.8)
Proceeds from sale of capital assets	1.4	-
Debt issue costs	(0.3)	(1.2)
Contributed capital received for capital costs	0.2	0.1
Proceeds from long-term debt	-	220.7
Proceeds from commercial paper	115.4	101.5
Debt principal payments	(85.1)	(88.4)
Interest paid	(89.9)	(87.1)
Payments to refund and defease debt	-	(218.4)
Net cash used in capital and financing activities	<u>(223.0)</u>	<u>(191.6)</u>
<b>Cash Flows From Investing Activities</b>		
Sale and maturity of investment securities	169.0	167.0
Purchase of investment securities	(169.8)	(206.1)
Note payments and Interest received	1.8	1.3
Net cash provided by (used in) investing activities	<u>1.0</u>	<u>(37.8)</u>
<b>Net Increase (Decrease) in Cash and Cash Equivalents</b>	(16.0)	18.9
<b>Cash and Cash Equivalents, Beginning of Year</b>	<u>61.7</u>	<u>42.8</u>
<b>Cash and Cash Equivalents, End of Year</b>	<u>\$ 45.7</u>	<u>\$ 61.7</u>



**LOWER COLORADO RIVER AUTHORITY**  
**NOTES TO FINANCIAL STATEMENTS**  
As of and for the Years Ended June 30, 2017, and 2016

**LCRA TRANSMISSION SERVICES CORPORATION**  
**STATEMENTS OF CASH FLOWS**

*(Dollars in Millions)*

	Year Ended June 30,	
	2017	2016
<b>Reconciliation of Operating Income to Net Cash</b>		
<b>Provided by Operating Activities</b>		
Operating income	\$ 198.7	\$ 199.9
Adjustments to reconcile operating income to net cash provided by operating activities:		
Depreciation, depletion and amortization	73.3	67.2
Changes in assets, liabilities, and deferred outflows of resources:		
Accounts receivable	(6.3)	(6.9)
Inventories	(12.9)	0.2
Other current assets	(0.2)	(0.2)
Current liabilities	1.9	15.4
Other charges and deferred outflow of resources	(27.5)	(1.7)
Other credits and long-term liabilities	4.5	0.4
Net cash provided by operating activities	<u>\$ 231.5</u>	<u>\$ 274.3</u>
<b>Noncash Investing and Capital and Related Financing Activities</b>		
Investment market adjustments	<u>\$ 0.5</u>	<u>\$ (0.2)</u>
Capital assets financed through short term liabilities	<u>\$ 16.9</u>	<u>\$ -</u>

**LOWER COLORADO RIVER AUTHORITY**  
**NOTES TO FINANCIAL STATEMENTS**  
**As of and for the Years Ended June 30, 2017, and 2016**

Component unit information for GenTex Power Corporation:

**GENTEX POWER CORPORATION**  
**STATEMENTS OF NET POSITION**

*(Dollars in Millions)*

	<b>June 30, 2017</b>	<b>June 30, 2016</b>
<i>Assets</i>		
<b>Current Assets:</b>		
Cash and cash equivalents	\$ 12.9	\$ 14.0
Inventories, net	1.8	1.8
Other	-	0.2
Total current assets	<u>14.7</u>	<u>16.0</u>
<b>Long-term Assets:</b>		
Restricted cash and cash equivalents	4.1	4.1
Capital assets:		
Depreciable capital assets, net	6.7	6.7
Total long-term assets	<u>10.8</u>	<u>10.8</u>
<b>Total Assets</b>	<u><u>\$ 25.5</u></u>	<u><u>\$ 26.8</u></u>
<i>Liabilities</i>		
<b>Current Liabilities:</b>		
Accounts payable to LCRA	\$ -	\$ 0.4
Accounts payable	0.5	0.8
Other current liabilities	0.9	0.8
Total current liabilities	<u>1.4</u>	<u>2.0</u>
<b>Long-term Liabilities:</b>		
Other credits	9.8	10.8
Total Liabilities	<u>11.2</u>	<u>12.8</u>
<b>Deferred Inflow of Resources:</b>		
Regulatory credits	4.1	4.1
<b>Total Deferred Inflow of Resources</b>	<u>4.1</u>	<u>4.1</u>
<b>Net Position</b>		
Net investment in capital assets	6.6	6.4
Unrestricted	3.6	3.5
<b>Total Net Position</b>	<u>10.2</u>	<u>9.9</u>
<b>Total Liabilities, Deferred Inflow of Resources, and Net Position</b>	<u><u>\$ 25.5</u></u>	<u><u>\$ 26.8</u></u>

**LOWER COLORADO RIVER AUTHORITY**  
**NOTES TO FINANCIAL STATEMENTS**  
As of and for the Years Ended June 30, 2017, and 2016

**GENTEX POWER CORPORATION**  
**STATEMENTS OF REVENUES, EXPENSES, AND**  
**CHANGES IN NET POSITION**

*(Dollars in Millions)*

	Year Ended June 30,	
	2017	2016
<b>Operating Revenues</b>		
Electric Revenues	\$ 33.4	\$ 36.9
<b>Total operating revenues</b>	<u>33.4</u>	<u>36.9</u>
<b>Operating Expenses</b>		
Fuel	21.6	25.0
Operations	2.4	2.5
Maintenance	3.3	5.7
General and Administrative	4.2	3.8
Depreciation Expense	0.4	0.3
<b>Total operating expenses</b>	<u>31.9</u>	<u>37.3</u>
<b>Operating Income (Loss)</b>	<u>1.5</u>	<u>(0.4)</u>
<b>Nonoperating Expenses</b>		
Interest income from Investments	0.1	-
Public Service Fund and Other Expenses	(1.3)	(1.1)
<b>Total Nonoperating Expenses</b>	<u>(1.2)</u>	<u>(1.1)</u>
<b>Change in Net Position</b>	0.3	(1.5)
<b>Total Net Position, Beginning of Year</b>	<u>9.9</u>	<u>11.4</u>
<b>Total Net Position, End of Year</b>	<u>\$ 10.2</u>	<u>\$ 9.9</u>

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

As of and for the Years Ended June 30, 2017, and 2016

### GENTEX POWER CORPORATION

### STATEMENTS OF CASH FLOWS

(Dollars in Millions)

	Year Ended June 30,	
	2017	2016
<b>Cash Flows From Operating Activities</b>		
Receipts from customers	\$ 33.4	\$ 36.9
Payments to suppliers	(31.7)	(36.9)
Other payments	(1.2)	(0.2)
Net cash provided by (used in) operating activities	<u>0.5</u>	<u>(0.2)</u>
<b>Cash Flows From Noncapital Financing Activities</b>		
Other expenses	(1.2)	(1.1)
Net cash used in noncapital financing activities	<u>(1.2)</u>	<u>(1.1)</u>
<b>Cash Flows From Capital and Related Financing Activities</b>		
Purchases of property, plant and equipment	(0.4)	-
Net cash used in capital and financing activities	<u>(0.4)</u>	<u>-</u>
<b>Cash Flows From Investing Activities</b>		
Sale and maturity of investments	-	17.5
Net cash provided by investing activities	<u>-</u>	<u>17.5</u>
<b>Net Increase / (Decrease) in Cash and Cash Equivalents</b>	(1.1)	16.2
<b>Cash and Cash Equivalents, Beginning of Year</b>	18.1	1.9
<b>Cash and Cash Equivalents, End of Year</b>	<u>\$ 17.0</u>	<u>18.1</u>
<b>Reconciliation of Operating Income to Net Cash Provided by Operating Activities</b>		
Operating income	\$ 1.5	\$ (0.4)
Adjustments to reconcile operating income to net cash provided by operating activities:		
Depreciation and amortization	0.4	0.3
Changes in assets, liabilities, and deferred outflow of resources:		
Inventories	-	(0.1)
Other current assets	-	0.1
Current liabilities	(0.4)	-
Other charges	-	0.8
Other credits and other long-term liabilities	(1.0)	(0.9)
Net cash provided by (used in) operating activities	<u>\$ 0.5</u>	<u>\$ (0.2)</u>

#### Other component unit:

WSC Energy financial activity is not material to these financial statements; however, for FY 2017, total assets are \$0.8 million, liabilities are \$1.0 million, and net position is (\$0.2) million.

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

#### 9. Derivative Instruments

**Hedging Instruments** LCRA enters into natural gas and power transactions and power-related transactions to hedge its price exposure to fluctuations in the market price of natural gas and ERCOT power. A portion of LCRA's power transactions and power-related hedges are physical in nature and excluded from the scope of the financial trades disclosed below. LCRA typically sells power when forecasted economic generation is expected to exceed its forecasted load and buys power when forecasted load exceeds its forecasted economic generation. This activity helps insure that the actualized Fuel and Power Cost Recovery Rate (F&PCRF) is close to the forecasted F&PCRF and set in rates at the beginning of the year.

Contracts are accounted for in accordance with Statement No. 53, which addresses recognition, measurement and disclosure related to derivative instruments. Statement No. 53 requires derivatives to be reported on the Statements of Net Position at fair value and changes in fair value are deferred and reported on the Statements of Net Position or recognized on the Statements of Revenues, Expenses and Changes in Net Position depending on effectiveness.

Contracts are evaluated pursuant to Statement No. 53 to determine whether they meet the definition of derivative instruments, and if so, whether they effectively hedge the expected change in cash flows associated with energy prices.

At the end of each month, LCRA tests its gas and power derivative instruments for effectiveness according to Statement No. 53. If the net cash flow of the future gas purchased and the associated family of derivative instruments falls within the target unit price range established by management, the derivative contracts are considered effective and the change in fair value of the instruments is deferred on the Statements of Net Position. If deemed to be ineffective, the change in fair value of the instruments is immediately recognized in the Statements of Revenues, Expenses and Changes in Net Position as an operating expense and then deferred to the Statements of Net Position through the fuel factor (see Note 1, *Fuel and Power Cost Recovery Factor* in accordance with regulatory accounting under Statement No. 62).

LCRA's hedging transactions during FY 2017 were composed of natural gas and power, physical and financial transactions. Financial natural gas hedging transactions were composed primarily of natural gas futures with some calls and puts on the futures as well as standard swap transactions. The power hedging transactions were composed of financial and physical fixed price power futures and physical fixed heat rate and short dated heat rate option and lookback transactions. The natural gas and power futures contracts were executed on Intercontinental Exchange (ICE). Settled transactions, with closing dates between July 2016 and June 2017, had settled with a gain of \$3.4 million. The total notional amount as of June 30, 2017 for the closed hedging transactions was 131.5 million MMBtu; open transactions consist of 40.1 million MMBtu. The change in fair value for all hedging instruments held was a \$2.3 million gain and a \$2.2 million loss for FY 2017 and FY 2016, respectively. In FY 2017 the mark to market losses for open transactions was \$1.3 million, which is a deferred outflow of resources, with mark to market gains of \$0.5 million, which is a deferred inflow of resources. FY 2016 mark to market losses for open transactions was \$1.9 million, with no mark to market gains.

On June 30, 2017, and 2016, the total fair value of outstanding derivative instruments was a net liability of (\$1.1) million and a net asset of \$1.8 million, respectively, reported on the Statements of Net Position. Changes in fair value for effective derivatives (deferred outflow and inflow) are reported on the Statements of Net Position. Changes in fair value for ineffective derivatives (investment derivative) are recognized as fuel operating expenses in the Statements of Revenues, Expenses and Changes in Net Position and then deferred to the Statements of Net Position through the fuel factor.

**Credit Risk:** Credit risk is the risk of loss due to a counterparty defaulting on its obligations. LCRA's derivative contracts and physical bi-lateral transactions expose LCRA to custodial credit risk. In the event of default or nonperformance by bi-lateral counterparties and brokers, New York Mercantile Exchange (NYMEX) or ICE, LCRA's operations could be materially affected. However, LCRA does not expect the exchanges to fail in meeting their obligations given their high credit ratings and the credit requirements upheld by NYMEX, of which these brokerage firms are members.

**Termination Risk:** Termination risk is the risk that a derivative or physical bi-lateral trade will terminate prior to its scheduled maturity due to a contractual event. Contractual events include illegality, tax and credit events upon merger and other events. One aspect of termination risk is LCRA would lose the hedging benefit of a derivative or bi-lateral trade that becomes subject to a termination event. Another aspect of termination risk is that, if at the time

# LOWER COLORADO RIVER AUTHORITY

## NOTES TO FINANCIAL STATEMENTS

### As of and for the Years Ended June 30, 2017, and 2016

of termination the mark to market value of the derivative was a liability to LCRA, it would be required to pay the market value of the derivative to the counterparty. LCRA addresses this risk through the use of the International Swaps and Derivatives Association (ISDA) agreements, Edison Electric Institute (EEI) master agreements and individual contracts have language to address termination risk. Termination risk is associated with all of LCRA's derivatives up to the fair value amounts. LCRA believes termination risk is very low.

**Basis Risk:** Basis risk in the financial markets arises when an underlying position and the product used as a hedge are based on different quality or trade at different locations. LCRA is exposed to basis risk on both gas and power because LCRA's assets and customer obligations do not always match locations.

For LCRA's natural gas requirements NYMEX is the exchange futures contract used which trades at Henry Hub Louisiana while operationally LCRA purchases are based on the Western Area Hub Association (WAHA) or the Houston Ship Channel (HSC) index. This exposes LCRA to the basis risk between NYMEX and WAHA or HSC indices.

Physical and financial power contracts LCRA uses as hedges are typically settled at an ERCOT hub, while LCRA load is settled at the LCRA load zone and LCRA power plants are settled at their respective resource node price. As a result physical trades are exposed to basis risk as well and LCRA utilizes pre-assigned Congestion Revenue Rights (PCRRs), Congestion Revenue Rights (CRRs), and Point to Point trades (PTPs) to manage its power basis exposure.

**Reporting Requirements:** Under GASB Statement No. 72, LCRA is required to disclose the valuation technique and level of inputs for all investments. One of the acceptable valuation techniques, and that which LCRA uses is the market approach. GASB Statement No. 72 also requires that assets and liabilities be categorized into three levels. The majority of LCRA's derivative investments are valued using Level 1 inputs and settled using quoted prices (Platts and NYMEX's Henry Hub Natural Gas Futures Settlements) for identical assets or liabilities in active markets at the measurement date. Some of LCRA's commodity derivatives are settled using Level 2 inputs which are derived from observable market data through correlation.

## 10. Subsequent Event

On Sept. 15, 2017, LCRA sold and leased 77 tower structures to an outside party for \$102.3 million. The sale is not expected to have a significant impact on LCRA operations.

**LOWER COLORADO RIVER AUTHORITY  
REQUIRED SUPPLEMENTAL INFORMATION (Unaudited)  
As of and for the Years Ended June 30, 2017, and 2016**

(Dollars in Millions)

Schedule of Changes in the Plan's Net Pension Liability and Related Ratios for the Last 10 Plan Years <sup>1</sup>

	Fiscal Year Ending June 30, 2017	Fiscal Year Ending June 30, 2016	Fiscal Year Ending June 30, 2015	Fiscal Year Ending June 30, 2014
<b>1. Total Pension Liability</b>				
a. Service cost	\$ 5.0	\$ 6.5	\$ 7.2	\$ 7.2
b. Interest	30.1	38.1	37.8	37.2
c. Purchase of optional credited service	0.6	1.2	0.4	1.2
d. Differences between expected and actual experience	7.7	4.6	(6.4)	
e. Changes of assumptions	12.4	21.0		
f. Benefit payment	(27.5)	(38.1)	(32.9)	(43.8)
g. Plan amendments	-	0.1	0.2 <sup>2</sup>	
<b>h. Net Change in Total Pension Liability</b>	<b>28.3</b>	<b>33.4</b>	<b>6.3</b>	<b>1.8</b>
<b>i. Total Pension Liability - Beginning</b>	<b>551.2</b>	<b>517.8</b>	<b>511.5</b>	<b>509.7</b> <sup>3</sup>
<b>j. Total Pension Liability - Ending</b>	<b>\$ 579.5</b>	<b>\$ 551.2</b>	<b>\$ 517.8</b>	<b>\$ 511.5</b>
<b>2. Plan Fiduciary Net Position</b>				
a. Contributions by the employer	\$ 15.1	\$ 21.1	\$ 27.5	\$ 31.2
b. Contributions by the participants	0.6	1.2	0.4	1.2
c. Net investment income	14.9	0.8	22.9	39.9
d. Benefit payments	(27.5)	(38.1)	(32.9)	(43.8)
e. Administrative expenses	-	-	(0.3)	(0.2)
<b>f. Net Change in Plan Fiduciary Net Position</b>	<b>3.1</b>	<b>(15.0)</b>	<b>17.6</b>	<b>28.3</b>
<b>g. Plan Fiduciary Net Position - Beginning</b>	<b>400.0</b>	<b>415.0</b>	<b>397.4</b>	<b>369.1</b>
<b>h. Plan Fiduciary Net Position - Ending</b>	<b>\$ 403.1</b>	<b>\$ 400.0</b>	<b>\$ 415.0</b>	<b>\$ 397.4</b>
<b>3. Employer's Net Pension Liability - Ending</b>				
[Item 1(j) - 2(i)]	\$ 176.4	\$ 151.2	\$ 102.8	\$ 114.1
<b>4. Plan Fiduciary Net Position as a Percentage of the Total Pension Liability</b>	69.6%	72.6%	80.1%	77.7%
<b>5. Covered-Employee Payroll</b>	<b>\$ 91.4</b>	<b>\$ 122.1</b>	<b>\$ 114.7</b>	<b>\$ 123.2</b>
<b>6. Employer's Net Pension Liability as a Percentage of Covered-Employee Payroll</b>	192.9%	123.8%	89.6%	92.6%

**Notes to Schedule:**

<sup>1</sup> This schedule is presented to illustrate the requirement to show information for 10 years. Until a full 10-year trend is compiled, only available information is shown. Amounts recognized in the plan year represent changes between the current and prior measurement dates.

<sup>2</sup> Two plan amendments increased retirement benefits for certain participants.

<sup>3</sup> Determined from the ending total pension liability using the roll-back procedure allowed for the initial year of implementing GASB Statement No. 67.

**LOWER COLORADO RIVER AUTHORITY  
REQUIRED SUPPLEMENTAL INFORMATION (Unaudited)  
As of and for the Years Ended June 30, 2017, and 2016**

(Dollars in Millions)

**Schedule of Employer Contributions for the Last 10 Fiscal Years**

	Fiscal Year Ending June 30, 2017	Fiscal Year Ending June 30, 2016	Fiscal Year Ending June 30, 2015	Fiscal Year Ending June 30, 2014
1. Actuarially determined contribution (ADC)	\$ 13.9	\$ 17.0	\$ 19.3	\$ 20.9
2. Contributions in relation to the actuarially determined contribution	15.1	21.1	27.5	31.2
3. Contribution deficiency (excess)	\$ (1.2)	\$ (4.1)	\$ (8.2)	\$ (10.3)
4. Covered payroll	\$ 91.4	\$ 122.1	\$ 123.2	\$ 123.2
5. Contribution as a percentage of covered payroll	16.5%	17.2%	21.6%	25.3%

**Notes to Schedule:**

The actuarially determined contribution amount for each plan year was calculated in the actuarial valuation at the beginning of the year. Methods and assumptions used to determine the actuarially determined contribution:

Actuarial cost method	Entry age
Amortization method	Level amount, closed period
Remaining amortization period	21 years for year ending Dec. 31, 2016; 22, 23 and 24 years, respectively, for years ending March 31, 2016, 2015 and 2014
Asset valuation method	Five-year smoothed market
Inflation	3 percent for year ending Dec. 31, 2016; 3.25 percent for years ending March 31, 2016, 2015 and 2014
Salary increases	3.5 percent plus merit and promotion increases that vary by age and service for year ending Dec. 31, 2016; 4.0 percent plus merit and promotion increases that vary by age and service for years ending March 31, 2016, 2015 and 2014
Investment rate of return	7.25 percent for year ending Dec. 31, 2016; 7.5 percent, net of pension plan investment expense, for years ending March 31, 2016, 2015 and 2014
Retirement age	Rates that vary by age and service
Mortality	RP-2000 Combined Healthy Mortality Table for males and for females (sex distinct) projected to 2018 by scale AA

<sup>1</sup> This schedule is presented to illustrate the requirement to show information for 10 years. Until a full 10-year trend is compiled, only available information is shown. Amounts recognized in the plan year represent changes between the current and prior measurement dates.



**LOWER COLORADO RIVER AUTHORITY  
REQUIRED SUPPLEMENTAL INFORMATION (Unaudited)  
As of and for the Years Ended June 30, 2017, and 2016**

(Dollars in Millions)

**Schedule of Funding Progress – Other Postemployment Benefits**

Actuarial Valuation Date <sup>1</sup>	(1) Actuarial Value of Assets	(2) Actuarial Accrued Liability Entry Age	(3) Funded Ratio (1)/(2)	(4) Unfunded Actuarial Accrued Liability (2)-(1)	(5) Annual Covered Payroll <sup>2</sup>	(6) Unfunded Actuarial Accrued Liability as a Percentage of Covered Payroll (4)/(5)
July 1, 2011	\$ -	\$ 213.1	0%	\$ 213.1	\$ 144.5	147%
July 1, 2013	-	211.7	0	211.7	135.8	156
July 1, 2015	-	180.8	0	180.8	128.4	141

<sup>1</sup> Actuarial valuations are only required on a biennial basis.

<sup>2</sup> Based on projected payroll as of valuation date.

**Schedule of Contributions – Other Postemployment Benefits**

Fiscal Year Ended	Annual OPEB Cost	Percentage of Annual OPEB Cost Contributed	Net OPEB Obligation
June 30, 2015	\$ 11.1	101%	\$ 36.6
June 30, 2016	9.8	81	38.5
June 30, 2017	10.3	76	41.0