



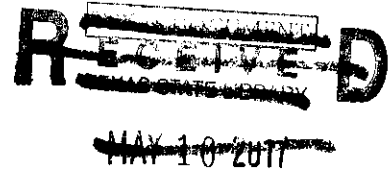
## COASTAL WATER AUTHORITY

1801 Main Street, Suite 800  
Houston, Texas 77002

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November 12, 2015

The Honorable Annise D. Parker, Mayor  
Members of the City Council  
City of Houston  
P. O. Box 1562  
Houston, Texas 77251-1562



**RE: 2016 ANNUAL BUDGET  
TRINITY RIVER WATER CONVEYANCE PROJECT**

Mayor Parker and Members of the City Council:

In compliance with provisions of the Operating Contract between the City of Houston (the City) and the Coastal Water Authority (CWA), the Board of Directors respectfully submits the 2016 Calendar Year Budget for the Trinity River Water Conveyance Project for your consideration and approval.

The CWA 2016 Proposed Budget of \$20,752,165, is a decrease of about \$1,082,948 from the 2015 Operating Budget of \$21,835,113. The 2016 Budget involves a request for the replacement and/or repair of several pieces of equipment within the Trinity River Water Conveyance System. The 2016 Budget supports CWA's expected delivery of 204.2 billion gallons of water for the City's treatment plants and its customers. The 2016 Capital Improvement Budget includes the funding of about \$2.7 million from the Combined Utility System's Capital Improvement Program for the reconstruction/repair of structures on the Authority's Main Canal.

The Authority's Board of Directors and its management team continue to identify activities where costs could be reduced and still allow CWA to meet its obligations to the City. Some of these activities are:

- Field Salaries reflect a reduction due to the reallocation of personnel to all of the budgeted operating activities conducted by the Authority including the Lake Houston and Luce Bayou Project Budgets in 2016 based upon anticipated levels of employee activities.
- Contract Labor and Equipment reflects a decrease due to several budgeted items repaired and/or replaced during 2015.
- The Authority's current electricity procurement contract was negotiated to achieve an energy rate reduction of about 8% that began in July 2015 and continues through 2017.
- The Authority has been able to achieve reduction of about 5% in the renewal cost of some of its insurance policies including employee group medical coverage.
- A Memorandum of Understanding with the City of Houston's Legal Department approved in 2011 continues to provide a savings for the Authority in its costs of legal services. That savings is estimated to be about \$200,000 in 2015 and will continue in 2016.
- Several personnel related costs were removed from this Budget and transferred to the new Luce Bayou Operating Budget for 2016.

The Honorable Annise D. Parker, Mayor  
Members of the City Council  
2016 Annual Budget, Trinity River  
November 12, 2015  
Page 2

The proposed 2016 Budget is the product of several meetings and discussions between representatives of the City's Department of Public Works and Engineering and the Authority's operational and management staff members.

The proposed budget provides minimal contingencies in the event of unanticipated occurrences. The failure of high-cost equipment or severe weather conditions that damage the system may result in a supplemental funding request. In such an event, the request would be documented as to need and coordinated with the Department of Public Works and Engineering.

The members of the Board of Directors wish to express their appreciation to everyone involved in this Project, especially those City employees of the Department of Public Works & Engineering and the Legal Department for their cooperation and assistance in furthering the CWA Project as a major contributory resource for the Houston Combined Utility System. We look forward to continued efforts in planning and providing for the further growth of the City of Houston's water requirements.

Sincerely,



D. Wayne Klotz, P.E.  
President, Board of Directors

Attachment

**COASTAL WATER AUTHORITY**  
**TRINITY RIVER WATER CONVEYANCE PROJECT**  
**2016 ANNUAL BUDGET**

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
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COASTAL WATER AUTHORITY  
TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
BUDGET SUMMARY  
2016 ANNUAL BUDGET

<u>APPLICATION OF FUNDS</u>	<u>2015 BUDGET</u>	<u>2015 PROJECTED</u>	<u>2016 BUDGET</u>
Field Expenditures (1)	\$21,835,113	\$21,390,000	\$20,752,165
Capital Outlay	2,195,000	1,500,000	3,151,500
Debt Service	5,648,265	5,648,265	6,467,331
Total Expenditures	<u>29,678,378</u>	<u>28,538,265</u>	<u>30,370,996</u>
Ending Fund Balances (2)	<u>5,458,778</u>	<u>5,458,778</u>	<u>5,188,041</u>
Total Applications	<u>35,137,156</u>	<u>33,997,043</u>	<u>35,559,037</u>
 <u>SOURCE OF FUNDS</u>			
Beginning Fund Balances (2)	5,260,553	5,260,553	5,458,778
Investment Income - Operations	1,000	4,500	1,000
Other Income	150,000	243,000	150,000
Subtotal Sources	<u>5,411,553</u>	<u>5,508,053</u>	<u>5,609,778</u>
Capital Funding - Construction	495,000	0	400,000
Debt Service Revenue - City	5,648,265	5,648,265	6,467,331
Subtotal	<u>11,554,818</u>	<u>11,156,318</u>	<u>12,477,109</u>
System Revenue - Project	<u>\$23,582,338</u>	<u>\$22,840,725</u>	<u>\$23,081,928</u>

(1) Includes assets purchased

(2) Project Fund only.

COASTAL WATER AUTHORITY  
TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
FACTS AND ASSUMPTIONS  
2016 ANNUAL BUDGET

FACTS

- 1 The 2016 budget is prepared on a cash basis.
2. Trinity River books and records consist of four funds, which are the Conveyance System Development Fund, the Special Contingency Fund, the Debt Service Fund, and the Project Fund.
3. The required fund balances have been reflected at the minimum balances per the various bond resolutions and applicable contract terms.
4. Trinity River is charged with direct salary and costs as well as an allocation of certain general items based upon an overall budgeted payroll allocation of 59%.
5. The 2016 budget reflects the impact of complying with SB361 as it relates to emergency electrical reliability at the two pump stations.

ASSUMPTIONS

- 1 Salaries anticipate funding the employee benefits of two field retirees.
2. The 2016 budget anticipates staffing to support continuation of activities required to fulfill the obligation of the current contract with the City of Houston.
3. Utility expense anticipates a net decrease in electrical costs with a lower rate anticipated in the extension of the current electricity contract.
4. Capital Outlay for 2016 also includes funding of land purchase for expanding a portion of the Authority's lateral canals along with improvements to the Main Canal.

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 RECONCILIATION OF 2015 BUDGET TO 2016 BUDGET

	2015 Budget to 2016 Budget
2015 Budget	<u>\$21,835,113</u>
Field Salaries	(121,687)
Materials & Supplies	(80,500)
Contract Labor & Equipment	(508,000)
Utilities (Electricity)	(55,442)
Administrative Expense	(119,492)
General Operating Expenses (Insurance)	(191,347)
Engineering, Legal & Professional	<u>(6,480)</u>
Subtotal	<u>(1,082,948)</u>
2016 Budget	<u>\$20,752,165</u>
2016 Capital Improvement Budget (To be funded from COH Combined Utility Construction Funds)	<u>\$ 2,751,500</u>

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 STATEMENT OF REVENUES AND EXPENDITURES  
 2016 ANNUAL BUDGET

	2015 BUDGET	2015 PROJECTED	2016 BUDGET
<b>REVENUES</b>			
Funds provided by City of Houston	\$29,230,603	\$28,488,990	\$29,549,259
Interest on Investments	1,000	4,500	1,000
Service Revenues(SJRA)	100,000	110,000	100,000
Other	50,000	133,000	50,000
Total Revenue	29,381,603	28,736,490	29,700,259
<b>EXPENDITURES</b>			
Field Salaries	3,240,913	3,300,000	3,119,226
Materials & Supplies	2,124,800	2,100,000	2,044,300
Contract Labor & Equipment (1)	4,957,100	4,600,000	4,449,100
Utilities	7,684,022	7,650,000	7,628,580
Administrative Expenses	1,616,697	1,600,000	1,497,205
General Operating Expenses	1,654,111	1,590,000	1,462,764
Engineering, Legal & Professional	557,470	550,000	550,990
Subtotal	21,835,113	21,390,000	20,752,165
Bond Interest Expense	3,433,265	3,433,265	3,137,331
Bond Principal Retirement	2,215,000	2,215,000	3,330,000
Debt Service	5,648,265	5,648,265	6,467,331
Construction Program	2,195,000	1,500,000	3,151,500
Capital Outlay	2,195,000	1,500,000	3,151,500
Total Expenditures	29,678,378	28,538,265	30,370,996
Net Increase (Decrease) in Fund Balances	(2) (\$296,775)	\$198,225	(3) (\$670,737)

(1) Includes assets purchased.

(2) Net of \$495,000 equity in fixed assets and \$198,225 increased equity in fund balances.

(3) Net of \$400,000 equity in fixed assets and \$270,737 decreased equity in fund balances.



COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 RECONCILIATION OF FUND ACTIVITY  
 2016 ANNUAL BUDGET

	CONVEYANCE SYSTEM DEVELOPMENT FUND	* SPECIAL CONTINGENCY FUND
Beginning Balance	\$533,980	\$3,000,000
Service Revenue	0	0
Interest Earnings	200	0
Transfer - Interest	(200)	0
Other Revenue	0	0
Expenses	0	0
Debt Service	0	0
Capital Outlay	(400,000)	0
Net Activity	(400,000)	0
Ending Balance	\$133,980	\$3,000,000

\* Interest Earnings are transferred to Special Projects Equity Fund per Contract requirements.

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 RECONCILIATION OF FUND ACTIVITY  
 2016 ANNUAL BUDGET

	<u>DEBT SERVICE</u>	<u>PROJECT FUND</u>	<u>TOTAL TRINITY RIVER CONVEYANCE PROJECT FUND</u>
Beginning Balance	\$0	\$5,458,778	\$8,992,758
Service Revenue	6,467,331	23,081,928	29,549,259
Interest Earnings	0	800	1,000
Transfer - Interest	0	200	0
Other Revenue	0	150,000	150,000
Expenses	0	(20,752,165)	(20,752,165)
Debt Service	(6,467,331)	0	(6,467,331)
Capital Outlay	0	(2,751,500)	(3,151,500)
Net Activity	<u>0</u>	<u>(270,737)</u>	<u>(670,737)</u>
Ending Balance	<u>\$0</u>	<u>\$5,188,041</u>	<u>\$8,322,021</u>

COASTAL WATER AUTHORITY  
TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
WATER DEMAND FORECAST  
2016 ANNUAL BUDGET

	<u>2015 BUDGET</u>	<u>2015 PROJECTED</u>	<u>2016 BUDGET</u>
Gallons (in thousands)	<u>202,894,700</u>	<u>202,412,700</u>	<u>204,209,400</u>

COASTAL WATER AUTHORITY  
TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
INVESTMENT AND OTHER INCOME  
2016 ANNUAL BUDGET

INVESTMENT INCOME

Average Cash and Investments	\$2,000,000
Average Effective Interest Rate	0.05%
Total	<u>\$1,000</u>

OTHER INCOME

Project Fund - Miscellaneous	50,000
Total	<u>\$50,000</u>

Service Revenue (SJRA)

Other-San Jacinto River Authority	100,000
Total	<u>\$100,000</u>

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 SUMMARY OF GENERAL AND ADMINISTRATIVE EXPENDITURES  
 2016 ANNUAL BUDGET

<u>GENERAL AND ADMINISTRATIVE EXPENDITURES</u>	<u>2015 BUDGET</u>	<u>2015 PROJECTED</u>	<u>2016 BUDGET</u>
ADMINISTRATIVE	\$1,616,697	\$1,600,000	\$1,497,205
GENERAL OPERATING (Insurance)	1,654,111	1,590,000	1,462,764
ENGINEERING, LEGAL & PROFESSIONAL	<u>557,470</u>	<u>550,000</u>	<u>550,990</u>
Total	<u>\$3,828,278</u>	<u>\$3,740,000</u>	<u>\$3,510,959</u>

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 ADMINISTRATIVE EXPENSES  
 2016 ANNUAL BUDGET

Administrative Salaries	\$587,050 (1)
Pension Plan Contribution (11.8% of total compensation)	437,341
Payroll Taxes (7.65% of total compensation)	283,530
Office Lease and Utilities	122,024 (1)
Office Supplies	8,850 (1)
Travel, Meetings and Parking	4,720 (1)
Directors Compensation	11,800 (1)
Printing and Reproduction	2,360 (1)
Telephone/ Data Maintenance	17,700 (1)
Vehicle: Gas & Maintenance	4,130 (1)
Payroll / Employee Processing Services	11,800 (1)
Miscellaneous	5,900 (1)
	<u>\$1,497,205</u>

(1) Allocated based upon office payroll estimate of 59%.

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 OFFICE SALARY ALLOCATION  
 2016 ANNUAL BUDGET

Executive Director

Chief Financial Officer

Accountant

Accountant

Accountant

Accountant

Accountant

Secretary

IT Manager

	Base Office Salaries	\$995,000
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	Office Allocation Factor (1)	59%
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	Trinity River Office Salaries	\$587,050
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(1) Based upon payroll estimate allocation

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 GENERAL OPERATING EXPENSES  
 2016 ANNUAL BUDGET

INSURANCE PREMIUM DESCRIPTION

Property Insurance	\$374,729	(1)	(5)
Property - Primary Flood	9,442	(2)	(5)
Texas Commercial Policy (General Liability)	84,744	(3)	(5)
Excess Liability	-	(9)	(5)
Watercraft Policy	8,483	(10)	(4)
Public Official & Employees Liability	35,730	(3)	(4) (7)
Notary Public Omissions	33	(2)	(4)
Public Employee Fidelity Bond	319	(2)	(4)
Pension - Fidelity Bond	81	(3)	(4)
Pension - Fiduciary Responsibility	3,434	(3)	(4)
Medical Insurance	764,055	(3)	(6) (7)
Contract Equipment/Difference in Conditions	14,575	(3)	(5)
Public Official Position (Director Fidelity)	680	(3)	(4)
Automobile Insurance	33,268	(3)	(6)
Workers Compensation	63,178	(3)	(5) (7)
Dental Insurance	35,940	(3)	(8) (7)
Vision Insurance	3,661	(3)	(5) (7)
Combined Group Life/Short & Long Term Disability	30,412	(3)	(5) (7)
	<u>\$1,462,764</u>		

- (1) Allocated based upon total insurable value of 89%.
- (2) Coverage 100% specific for Trinity River
- (3) Allocated based upon total payroll estimate of 59%.
- (4) Assumes no rate increase.
- (5) Assumes 3% rate increase.
- (6) Assumes 5% rate increase.
- (7) Assumes full employment.
- (8) Assumes 3% rate increase.
- (9) Coverage 100% specific for Luce Bayou
- (10) Allocated to Maintenance Boat Locations.



COASTAL WATER AUTHORITY  
TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
ENGINEERING, LEGAL AND PROFESSIONAL EXPENSES  
2016 ANNUAL BUDGET

Engineering Services	\$300,000 (1)
Legal Services	100,000 (3)
Accounting & Auditing	38,940 (2)
U.S. Geological Fee	15,550 (1)
Computer Support services	44,250 (2)
Website Development & Maintenance	20,650 (2)
Hardware, Software Upgrades and Maintenance	23,600 (2)
Miscellaneous Bank Fees	8,000 (3)
	<u>\$550,990</u>

(1) Based upon specific services.

(2) Allocated based upon total payroll estimate of 61%.

(3) Based upon specific and allocated services.

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 SUMMARY OF FIELD EXPENDITURES  
 2016 ANNUAL BUDGET

FIELD EXPENDITURES	2015 BUDGET	2015 PROJECTED	2016 BUDGET
SALARIES	\$3,240,913	\$3,300,000	\$3,119,226
MATERIALS & SUPPLIES	2,124,800	2,100,000	2,044,300
CONTRACT LABOR AND EQUIPMENT			
Contracted	4,792,100	4,435,000	4,377,100
Purchased	165,000	165,000	72,000
Subtotal	<u>4,957,100</u>	<u>4,600,000</u>	<u>4,449,100</u>
UTILITIES	7,684,022	7,650,000	7,628,580
Total	<u>\$18,006,835</u>	<u>\$17,650,000</u>	<u>\$17,241,206</u>

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 FIELD EXPENDITURES BY LOCATION  
 2016 ANNUAL BUDGET

<u>LOCATIONS</u>	<u>FIELD SALARIES</u>	<u>MATERIALS AND SUPPLIES</u>	<u>CONTRACT LABOR AND EQUIPMENT</u>	<u>UTILITIES</u>	<u>LOCATION TOTAL</u>
Trinity River Pump Station	\$592,033	\$178,400	\$1,273,800	\$2,258,730	\$4,302,963
Maintenance Station	208,261	261,200	25,900	28,700	524,061
Main Canal	388,656	21,500	13,300	0	423,456
Cedar Point Lateral	295,386	20,000	7,500	1,750	324,636
Lynchburg Reservoir	74,202	10,000	0	0	84,202
Lynchburg Pump Station	1,162,775	1,522,700	3,128,400	5,332,200	11,146,075
Distribution System	348,460	30,500	200	7,200	386,360
Bayport Reservoir	49,453	0	0	0	49,453
	<u>\$3,119,226</u>	<u>\$2,044,300</u>	<u>\$4,449,100</u>	<u>\$7,628,580</u>	<u>\$17,241,206</u>

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 SUMMARY OF FIELD SALARIES BY LOCATION  
 2016 ANNUAL BUDGET

<u>LOCATION</u>	<u>BASE COMPENSATION</u>	<u>RETIREE PAY (1)</u>	<u>3% OVERTIME (2)</u>	<u>TOTAL</u>
Trinity River Pump Station	\$550,517	\$25,000	\$16,516	\$592,033
Maintenance Station	202,195	0	6,066	208,261
Main Canal	377,336	0	11,320	388,656
Cedar Point Lateral	286,783	0	8,603	295,386
Lynchburg Reservoir	72,041	0	2,161	74,202
Lynchburg Pump Station	1,104,636	25,000	33,139	1,162,775
Distribution System	338,311	0	10,149	348,460
Bayport Reservoir	48,013	0	1,440	49,453
	<u>\$2,979,832</u>	<u>\$50,000</u>	<u>\$89,394</u>	<u>\$3,119,226</u>

(1) Allows for employee benefit payments to retirees.

(2) Provides for minimum overtime.

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 ANALYSIS OF BASE FIELD SALARIES BY FUNCTION AND LOCATION  
 2016 ANNUAL BUDGET

<u>LOCATION AND FUNCTION</u>	<u># OF EMPLOYEES</u>	<u>MAN HOURS (4)</u>	<u>AVG. RATE PER HOUR</u>	<u>BASE SALARIES</u>
<u>MANAGEMENT (1)</u>				
Trinity River Pump Station	0.200	416	\$66.77	\$27,776
Maintenance Station	0.100	208	66.77	13,888
Main Canal	0.150	312	66.77	20,832
Cedar Point Lateral	0.100	208	66.77	13,888
Lynchburg Reservoir	0.050	104	66.77	6,944
Lynchburg Pump Station	0.350	728	66.77	48,609
Distribution System	0.200	416	66.77	27,776
Bayport Reservoir	0.050	104	66.77	6,944
Subtotal	<u>1.200</u>	<u>2,496</u>	<u>66.77</u>	<u>166,657</u>
<u>SUPERVISORY PERSONNEL (2)</u>				
Trinity River Pump Station	0.600	1,248	53.05	66,206
Maintenance Station	0.400	832	53.05	44,138
Main Canal	0.400	832	53.05	44,138
Cedar Point Lateral	0.350	728	53.05	38,620
Lynchburg Reservoir	0.100	208	53.05	11,034
Lynchburg Pump Station	1.350	2,808	53.05	148,964
Distribution System	0.800	1,664	53.05	88,275
Bayport Reservoir	0.100	208	53.05	11,034
Subtotal	<u>4.100</u>	<u>8,528</u>	<u>53.05</u>	<u>452,409</u>
<u>ALL OTHER PERSONNEL (3)</u>				
Trinity River Pump Station	7.600	15,808	28.88	456,535
Maintenance Station	2.400	4,992	28.88	144,169
Main Canal	5.200	10,816	28.88	312,366
Cedar Point Lateral	3.900	8,112	28.88	234,275
Lynchburg Reservoir	0.900	1,872	28.88	54,063
Lynchburg Pump Station	15.100	31,408	28.88	907,063
Distribution System	3.700	7,696	28.88	222,260
Bayport Reservoir	0.500	1,040	28.88	30,035
Subtotal	<u>39.300</u>	<u>81,744</u>	<u>28.88</u>	<u>2,360,766</u>
Total Base Salaries	<u>44.600</u>	<u>92,768</u>	<u>\$32.12</u>	<u>\$2,979,832</u>

(1) Includes Manager of Operations and Production, Manager of Security.

(2) Includes Superintendents, Master Electrician, Administrator OPM, and Purchasing Agent.

(3) Includes Foremen, Electricians and Operators for construction, electrical, maintenance, and all routine operating functions.

(4) Estimated number of employees at 2,080 hours per year.

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 ANALYSIS OF MATERIALS AND SUPPLIES BY LOCATION  
 2016 ANNUAL BUDGET

LOCATION AND DESCRIPTION

TRINITY RIVER PUMP STATION

Reliability Contract (NRG) Fuel	\$149,100
Air Conditioning Repair Parts	1,000
Building / Grounds Maintenance	2,000
Electrical / Instrument	8,000
Herbicides / Insecticides	2,000
Mechanical, Plumbing, Valves, etc.	7,000
Miscellaneous Supplies	2,000
Office / Administrative	1,300
Oils and Lubricants	5,000
Power Tools, Hand Tools & Equip.	1,000
	178,400

MAINTENANCE STATION

Air Conditioning Repair Parts	1,000
Automotive / Equipment Repair Parts	90,000
Building / Grounds Maintenance	2,000
Diesel Fuel 28160 gal @ \$2.77	78,000
Electrical / Instrument	6,000
Gasoline 15580 gal @ \$2.38	37,100
Herbicides / Insecticides	2,000
Mechanical, Plumbing, Valves, etc.	1,000
Miscellaneous Supplies	4,700
Office / Administrative	2,400
Oils and Lubricants	5,000
Power Tools, Hand Tools & Equip.	5,000
Tires & Batteries	15,000
Welding Equipment & Supplies	12,000
	261,200

MAIN CANAL

Canal Check & Gate Maint.	1,500
Electrical / Instrument	1,000
Herbicides / Insecticides	10,000
Miscellaneous Supplies	1,000
Power Tools, Hand Tools & Equip.	3,000
Road Base, Sand, Rock, Rip Rap, etc.	5,000
	21,500

CEDAR POINT LATERAL

Canal Check & Gate Maint.	500
Electrical / Instrument	500
Herbicides / Insecticides	10,000
Miscellaneous Supplies	2,000
Power Tools, Hand Tools & Equip.	2,000
Road Base, Sand, Rock, Rip Rap, etc.	5,000
	20,000

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 ANALYSIS OF MATERIALS AND SUPPLIES BY LOCATION  
 2016 ANNUAL BUDGET

LOCATION AND DESCRIPTION

LYNCHBURG RESERVOIR

Building / Grounds Maintenance	2,000
Herbicides / Insecticides	3,000
Road Base, Sand, Rock, Rip Rap, etc.	5,000
	10,000

LYNCHBURG PUMP STATION

Reliability Contract (NRG - Fuel)	279,500
Air Conditioning Repair Parts	10,000
Building / Grounds Maintenance	8,000
CHEMICALS:	
-- Chlorine	594,000
Aqua Ammonia	276,200
Quantity Variance	87,000
--Misc Chemicals/ Pigtails, Adaptors	20,000
Sub-total Chemicals:	977,200

Diesel Fuel 3520 gal @ \$2.77	9,800
Electrical / Instrument	17,000
Gasoline 17630 gal @ \$2.38	42,000
Herbicides / Insecticides	3,000
Lab Test Equip & Supplies	2,000
Mechanical, Plumbing, Valves, etc.	10,000
Miscellaneous Supplies	29,200
Office / Administrative	24,000
Oils and Lubricants	10,000
Power Tools, Hand Tools & Equip.	18,000
Variable Frequency Drive Repair Parts	80,000
Welding Equip & Supplies	3,000
	1,522,700

DISTRIBUTION SYSTEM

Air Conditioning Repair Parts	1,000
Building / Grounds Maintenance	2,000
Channel Light System	3,500
Electrical / Instrument	2,000
Herbicides / Insecticides	10,000
Lab Test Equip & Supplies	1,000
Mechanical, Plumbing, Valves, etc.	3,000
Miscellaneous Supplies	1,000
Oils and Lubricants	1,000
Power Tools, Hand Tools & Equip.	4,000
Road Base, Sand, Rock, Rip Rap, etc.	2,000
	30,500

Total \$2,044,300

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 ANALYSIS OF CONTRACT LABOR AND EQUIPMENT BY LOCATION  
 2016 ANNUAL BUDGET

LOCATION AND DESCRIPTION

TRINITY RIVER PUMP STATION

Reliability Contract (NRG - Service Fee)	\$ 912,000
Contract Labor (Welders, Divers, Tech Spt, etc)	500
Major Motor Repair, 1 each	100,000
Major Pump Repair, 1 each	250,000
Annual Service Contracts:	
-- Crane Test/Certification	200
-- Pest Control Service	400
-- Substation, Relay Testing	6,400
-- Uniform Service	2,300
Purchase Equipment	
--15' Mower	2,000
	<u>1,273,800</u>

MAINTENANCE STATION

Contract Labor (Welders, Divers, Tech Spt, etc)	10,000
Equipment Rental Services	5,000
Annual Service Contracts:	
-- Janitorial Service	3,200
-- Pest Control Service	400
-- Uniform Service	5,300
Purchase Equipment	
--15' Mower	2,000
	<u>25,900</u>

MAIN CANAL

USGS-Water Level Meters	7,800
Purchase Equipment	
--15' Mower	5,500
	<u>13,300</u>

CEDAR POINT LATERAL

Purchase Equipment	
--15' Mower	5,500
	<u>5,500</u>



COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 ANALYSIS OF CONTRACT LABOR AND EQUIPMENT BY LOCATION  
 2016 ANNUAL BUDGET

LOCATION AND DESCRIPTION

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LYNCHBURG RESERVOIR

Purchase Equipment	
--15' Mower	2,000
	2,000

LYNCHBURG PUMP STATION

Reliability Contract (NRG - Service Fee)	1,710,000
Contract Labor (Welders, Divers, Tech Spt, etc)	1,000
Major Motor Repair, 1 each	100,000
Major Pump Repair, 1 each	190,000
Security: (Contract Guards)	120,000
Training: Security & Safety Training (1st Aid, CPR,AED,etc)	6,000
Training: Safety, RMP, Hazwop,AirPk, etc	10,000
Training: USACE Dam Safety CSE	1,000
Replace Intake Screens 2 sets for "A" System	125,000
Annual Service Contracts:	
-- Crane Test/Certification	1,400
-- SCADA: HSQ Svc/Tech Support	6,300
-- Janitorial Service	8,400
-- Pest Control Service	1,100
-- MSDS ONLINE	2,500
-- Security System	1,000
-- Substation, Relay Testing (Centerpoint Requirement)	55,000
-- Uniform Service	8,900
-- VFD Component Repair	80,000
-- VFD Control System Maint	30,000
Paint B-1, B-2, C-2 Drive Houses	75,000
HSQ UPGRADE	92,000
RMP Consultant	6,000
New "A" System Mag Meter	321,000
Rehab "B" System Motor Foundation (1)	60,000
New "C1" VFD House A/C Unit	11,800
VFD Service Agreement (208, 209) 2016	50,000
Purchase Equipment	
-- New Scissor Man Lift	32,000
-- Thermal Imaging Security Camera	23,000
	3,128,400

DISTRIBUTION SYSTEM

Annual Service Contracts:	
-- Crane Test/Certification	200
	200

Total \$4,449,100

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 ANALYSIS OF UTILITIES BY LOCATION  
 2016 ANNUAL BUDGET

ELECTRICITY					
LOCATION	KW HOURS	AVG. RATE HOUR (1)	AMOUNT	ALL OTHER (2)	TOTAL
Trinity River Pump Station	41,046,000	\$0.0550	\$2,257,530	\$1,200	\$2,258,730
Maintenance Station	250,000	0.0828	20,700	8,000	28,700
Cedar Point Lateral	5,000	0.1500 (3)	750	1,000	1,750
Lynchburg Pump Station	85,750,000	0.0616	5,282,200	50,000	5,332,200
Distribution System	60,000	0.1200 (3)	7,200	0	7,200
	<u>127,111,000</u>	<u>\$0.0595</u>	<u>\$7,568,380</u>	<u>\$60,200</u>	<u>\$7,628,580</u>

(1) Includes deregulated contract rates in all facilities except Entergy service area at Trinity River Pump Station.

(2) Includes telephone, water and waste disposal services.

(3) Includes the effect of minimum charges.

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 DEBT SERVICE  
 2016 ANNUAL BUDGET

	(1)	(2)	TOTAL
Bond Interest Expense	\$1,575,850	\$1,561,481	\$3,137,331
Bond Principal Retirement	2,450,000	880,000	3,330,000
Total Debt Service	\$4,025,850	\$2,441,481	\$6,467,331

- (1) In 2010, CWA issued \$38,900,000 of Contract Revenue Refunding Bonds, Series 2010.
- (2) In December 2014, CWA issued \$38,415,000 of Contract Revenue Refunding Bonds, Series 2014, to refund the Contract Revenue Bonds, Series 2004 which were issued to finance the expansion of the Trinity River Pump Station and the Lynchburg Pump Station

COASTAL WATER AUTHORITY  
 TRINITY RIVER WATER CONVEYANCE PROJECT FUNDS  
 CAPITAL OUTLAYS  
 2016 ANNUAL BUDGET

	<u>CONVEYANCE SYSTEM DEVELOPMENT FUND (1)</u>	<u>COH COMBINED UTILITY CONSTRUCTION FUNDS (2)</u>
NW Lat "D" Rehab		
MC Radial Gate Bypass (Alt 1)		\$ 1,440,000
Cnst Phase Services Radial Gate		20,000
Radial Gate CM by LAN		85,000
Hatcherville Rd. Leak Repair		
Hatcherville Rd. Canal Leak Repair		550,000
Leak Repair Cnst Phase Services		15,000
CM and Inspection Leak Repair		9,000
I-10 Siphon Slope Repair		
I-10 Siphon Slope Repair		300,000
Cnst Phase Services Siphon Repair		12,500
CM and Inspection Siphon Repair		20,000
New Substation Wave-Trap Equipment (2 lines)	200,000	
Pure Technology Pipe Assessment		225,000
Condition Assessment Support		75,000
ROW Acquisition NW Lat D	200,000	
Total Capital Outlays	<u>\$ 400,000</u>	<u>\$ 2,751,500</u>

(1) Funded by CWA Conveyance System Development Fund.

(2) Funded by City of Houston, Combined Utility System.