

2005 Limby River Authority Advisory
Committee Meeting

10/10/05
MTP

REGION C WATER PLANNING GROUP

OPEN MEETING

MONDAY, APRIL 25, 2005, AT 1:00 P.M.
THE MEETING WILL BE HELD AT
TRINITY RIVER AUTHORITY
CENTRAL WASTEWATER TREATMENT PLANT¹
6500 W. SINGLETON BOULEVARD
GRAND PRAIRIE, TEXAS

AGENDA

- I. ROLL CALL
- II. APPROVAL OF MINUTES – March 15, 2005
- III. ACTION ITEMS FOR CONSIDERATION
 - A. Additional Wholesale Water Providers
 - B. Action on Unique Stream Segments
 - C. Action on Policy Topics
 - D. Proposed Strategies to Meet Water Needs
- IV. DISCUSSION ITEMS
 - A. Presentation by Environmental Group
 - B. Infrastructure Financing Survey
 - C. Communications
 - D. Overall Status and Next Steps
- V. OTHER DISCUSSION
 - A. Updates from the Chair
 - B. Report from Regional Liaisons
 - C. Report from TWDB
 - D. Confirm Date and Location of Next Meeting
 - E. Other Discussion
 - F. Acknowledgement of Guests/Comments
- VI. ADJOURNMENT

¹ Persons with disabilities who plan to attend the Region C Water Planning Group meeting and who may need auxiliary aids or services such as mobility assistance, interpreters for persons who are deaf or hearing impaired, readers, large print, or Braille are requested to contact Lee Shaffer in the Central Regional Wastewater System Administrative Offices at (972) 263-2251 at least five work days prior to the meeting so that appropriate arrangements can be made.

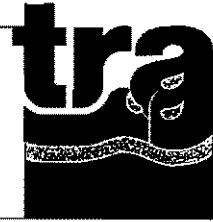
REGION C WATER PLANNING GROUP

OPEN MEETING

TUESDAY, MARCH 15, 2005, AT 1:00 P.M.
THE MEETING WILL BE HELD AT
TRINITY RIVER AUTHORITY
CENTRAL WASTEWATER TREATMENT PLANT
6500 W. SINGLETON BOULEVARD
GRAND PRAIRIE, TEXAS

AGENDA

- I. ROLL CALL
- II. APPROVAL OF MINUTES – January 13, 2005
- III. ACTION ITEMS FOR CONSIDERATION
 - A. Available Supplies to WWP/WUGs
 - B. Additional Potentially Feasible Water Management Strategy
 - C. Additional Wholesale Water Providers
 - D. Infrastructure Financing Survey
- IV. DISCUSSION ITEMS
 - A. Water Conservation
 - B. Summary of Water Needs
 - C. Feasible Water Management Strategies
 - 1. Regional Supplies
 - 2. County-by-County Suggested Water Management Strategies
 - 3. Strategies for Wholesale Water Providers
 - D. Report from Unique Stream Segment Committee
 - E. Report from Policy Topics Committee
 - F. Communications
 - G. Overall Status and Next Steps
- V. OTHER DISCUSSION
 - A. Updates from the Chair
 - B. Report from Regional Liaisons
 - C. Report from TWDB
 - D. Confirm Date and Location of Next Meeting
 - E. Other Discussion
 - F. Acknowledgement of Guests/Comments
- VI. ADJOURNMENT



Northern Region Office

December 28, 2004

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

NOTICE - Wednesday, January 5, 2005 at 11:00 a.m.
MEETING PLACE - Central Regional Wastewater Treatment Plant
6500 West Singleton Blvd., Grand Prairie

A meeting of the Central Regional Wastewater System Advisory Committee has been scheduled for **11:00 a.m.**, Wednesday, January 5, 2005 at the **Central Regional Wastewater Treatment Plant in Grand Prairie, at 6500 West Singleton Blvd., Grand Prairie, Texas.** A catered lunch will immediately follow the meeting.

The primary topic for this meeting will be TRA's reuse permit application and its conflict with the City of Irving's application for amending their water rights permit for reuse.

An agenda, minutes from the September 14, 2004 meeting, and other information are enclosed for your review prior to the meeting.

The information covered in this meeting is very important to each Contracting Party of the System and you are encouraged to send a representative. If you have questions prior to this meeting, please contact this office at 817-493-5100.

Warren N. Brewer/cea

WARREN N. BREWER
Regional Manager
Northern Region

WNB/cea

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations
Bill L. Tatum, Manager, CRWS



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

AGENDA
 CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
 6500 WEST SINGLETON BLVD., DALLAS, TEXAS
 WEDNESDAY, JANUARY 5, 2005, 11:00 A.M.

I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Bob Cluck	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Bill Lindley	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Bob Johnson	_____
D/FW Airport	Mr. Jim Crites	_____
Duncanville	Mr. Kent Cagle	_____
Eules	Mr. Ron Young	_____
Farmers Branch	Councilmember Paul Walden	_____
Fort Worth	Mr. Frank Crumb	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Mayor ProTem James Dickens	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Tracy Doyle	_____
North Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Director Hector Escamilla, Jr.	_____
	Director Sylvia Greene	_____
	Mr. Danny F. Vance	_____

III. Introduction of Guests, Consultants, and Authority Staff

- IV. Approval of Minutes of the September 14, 2004 Meeting

- V. Status Reports
 - A. Operations
 - B. Financial
 - C. Regulatory
 - D. Planning, Design, Construction

- VI. Action: Advisory Committee action regarding Trinity River Authority's reuse permit application and its conflict with the City of Irving's application for amending their water rights permit for reuse.

- VII. Other Business

- VIII. Adjourn to Lunch



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

MINUTES

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
 6500 WEST SINGLETON BLVD., DALLAS, TEXAS
 TUESDAY, SEPTEMBER 14, 2004, 11:00 A.M.**

I. Call to Order – Chairman Gravley called the meeting to order at 11:10 a.m.

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Steve Chutchian f/Mr. Michael Murphy	Present
Arlington	Ms. Fiona Allen f/Mayor Bob Cluck	Present
Bedford	Mr. Jim Arrington f/Councilmember Jim Griffin	Present
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Mr. Greg Porter	Absent
Colleyville	Mr. Ken Tywater f/Mr. Bill Lindley	Present
Coppell	Mr. Ken Griffin	Absent
Dallas	Mr. Mike Mikeska f/Mr. Bob Johnson	Present
D/FW Airport	Mr. Rick Reeter f/Mr. Jim Crites	Present
Duncanville	Mr. Dennis Schwartz f/Mr. Kent Cagle	Present
Eules	Mr. Chris Barker f/Mr. Ron Young	Present
Farmers Branch	Mr. Roy Smallwood f/Councilmember Paul Walden	Present
Fort Worth	Mr. Frank Crumb	Absent
Grand Prairie	Mr. Ron McCuller f/Councilmember Richard Fregoe	Present
Grapevine	Mr. Bob Price f/Mr. Jerry Hodge	Present
Hurst	Mr. Ron Haynes	Absent
Irving	Mr. David Ryburn f/Mayor ProTem James Dickens	Present
Keller	Mr. Rick Anderson f/Mr. Ed Ilschner	Present
Mansfield	Mr. Bud Ervin f/Councilmember Tracy Doyle	Present
North Richland Hills	Mr. David Smyth f/Mr. Mike Curtis	Present
Southlake	Mr. Pedram Farahnak	Absent
Trinity River Authority	Director Hector Escamilla, Jr.	Absent
	Director Sylvia Greene	Absent
	Mr. Danny F. Vance	Absent

III. Introduction of Guests, Consultants, and Authority Staff

TRA Staff present were: Warren Brewer, Patricia Cleveland, Bill Smith, Randy Brooks, John Nelson, Cheryl Abbott, Bill Tatum, Bill Cyrus, Shelley Fialho, Billy Hill and Debbie Bronson.

Others:

Carrollton – Stephen Jenkins
Eules – Paul Wryesinski
Farmers Branch – Mark Velton
Grapevine – Stan Laster
Midlothian – Judy Ford
Venus – Jerry Reed
Alan Plummer Associates – Betty Jordan
Black & Veatch – Layne Parsons
Freese & Nichols – Ray Longoria

IV. **Approval of Minutes of the August 10, 2004 Meeting**

Chairman Gravley asked if there were any revisions to be made to the minutes of the August 10, 2004 meeting. There being none, Ron McCuller made a motion to accept as presented, Bob Price seconded the motion, and a unanimous vote followed.

V. **Status Reports**

- A. Operations - Bill Tatum presented current information on the daily average flows and effluent quality since the August 10th meeting. Mr. Tatum stated that June, July, and August had been the wettest months in the Central System's history.
- B. Financial – Patricia Cleveland gave a brief summary of the System's year to date FY 2004 budget.
- C. Regulatory – Patricia Cleveland talked about the two day CMOM meeting and workshop that had been held in Austin on August 30 – 31. She said that EPA would be in partnership with utility providers to develop the CMOM program.
- D. Planning, Design, Construction – Randy Brooks said that in the August meeting he had presented an in depth report on design, planning, and construction. Mr. Brooks gave a brief summary of projected population growths, System historical data, and the process used to combine that information to determine System planning and expansion.

VI. **Presentation of Master Plan Update**

Ray Longoria with Freese & Nichols presented the planning objectives and the results of the comprehensive Phase IV Master Plan that addressed the major issues facing the long-term operation of the CRWS System.

VII. **Action: Proposed FY 2005 Operating and Maintenance Budget**

- A. Review of Budget Philosophy, Strategies, Objectives, and Contents
- B. Committee Action on Proposed FY 2005 Budget
- C. Detailed Budget Review

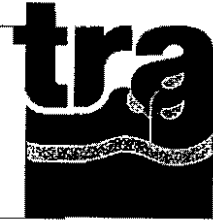
Warren Brewer noted that the detailed FY 2005 Budget had been presented in the August 10th meeting, that a budget workshop had been held with nine people attending, and that it was thought that all questions had been answered. There being no other questions, Fiona Allen made a motion to recommend the FY 2005 Operating and Maintenance Budget to the Authority's Board of Directors for their approval in the October 27 meeting. Ron McCuller seconded the motion and a unanimous vote followed.

VIII. **Other Business**

There was no other business to be discussed.

IX. **Adjourn to Lunch**

Chairman Gravley adjourned the meeting at noon and invited attendees to remain for a catered lunch.



Northern Region Office

September 3, 2004

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

NOTICE – Tuesday, September 14, 2004 at 11 a.m.
MEETING PLACE – Central Regional Wastewater Treatment Plant
6500 West Singleton Blvd, Dallas, Texas

A meeting of the Central Regional Wastewater System Advisory Committee has been scheduled for 11 a.m., Tuesday, September 14, 2004, at the **Central Regional Wastewater Treatment Plant at 6500 West Singleton Blvd., Dallas.** Lunch will be served immediately following the meeting. Please RSVP to Cheryl Abbott before noon on Monday, September 13, 2004, at 817-493-5100 or abbottc@trinityra.org.

We encourage each party served by the System to send a representative to this meeting, since Authority staff will be requesting the Committee's endorsement and approval of the proposed FY 2005 System Operations and Maintenance Budget. The proposed budget was presented in the August 10th Advisory Committee and a Budget Workshop was held on Wednesday, September 1, 2004. We believe all questions about the budget have been answered.

Enclosed for your review are an agenda and minutes of the August 10, 2004 meeting. If you should have any questions, please contact this office at 817-493-5100.

Warren N. Brewer/cea

WARREN N. BREWER
Regional Manager
Northern Region

/cea

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations
Bill Tatum, Manager, CRWS



**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

AGENDA
CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., DALLAS, TEXAS
TUESDAY, SEPTEMBER 14, 2004, 11:00 A.M.

I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Bob Cluck	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Bill Lindley	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Bob Johnson	_____
D/FW Airport	Mr. Jim Crites	_____
Duncanville	Mr. Kent Cagle	_____
Euless	Mr. Ron Young	_____
Farmers Branch	Mayor ProTem Paul Walden	_____
Fort Worth	Mr. Frank Crumb	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Mayor ProTem James Dickens	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Tracy Doyle	_____
North Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Director Hector Escamilla, Jr.	_____
	Director Sylvia Greene	_____
	Mr. Danny F. Vance	_____

III. Introduction of Guests, Consultants, and Authority Staff

- IV. **Approval of Minutes of the August 10, 2004 Meeting**

- V. **Status Reports**
 - A. Operations
 - B. Financial
 - C. Regulatory
 - D. Planning, Design, Construction

- VI. **Presentation of Master Plan Update**

- VII. **Action: Proposed FY 2005 Operating and Maintenance Budget**
 - A. Review of Budget Philosophy, Strategies, Objectives, and Contents
 - B. Committee Action on Proposed FY 2005 Budget
 - C. Detailed Budget Review

- VIII. **Other Business**

- IX. **Adjourn to Lunch**



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

Minutes

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
 6500 WEST SINGLETON BLVD., DALLAS, TEXAS
 TUESDAY, AUGUST 10, 2004, 10:00 A.M.**

- I. **Call to Order** – Chairman Gravley called the meeting to order at 10:05 a.m. and asked Warren Brewer to call roll.
- II. **Roll Call**

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Jim Pierce f/Mr. Michael Murphy	Present
Arlington	Ms. Fiona Allen f/Mayor Bob Cluck	Present
Bedford	Mr. Jerry Sherman f/Councilmember Jim Griffin	Present
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Ms. Ruth Antebi f/Mr. Greg Porter	Present
Colleyville	Ms. Terry Leake f/Mr. Bill Lindley	Present
Coppell	Mr. Ken Griffin	Absent
Dallas	Mr. Chris Kaakaty f/Mr. Bob Johnson	Present
D/FW Airport	Mr. Rick Reeter f/Mr. Jim Crites	Present
Duncanville	Mr. Dennis Schwartz f/Mr. Kent Cagle	Present
Euless	Mr. Ron Young	Present
Farmers Branch	Mayor ProTem Paul Walden	Present
Fort Worth	Ms. MaeBell Brown f/Mr. Frank Crumb	Present
Grand Prairie	Councilmember Richard Fregoe	Present
Grapevine	Mr. Matt Singleton f/Mr. Jerry Hodge	Present
Hurst	Mr. Chuck Kendrick f/Mr. Ron Haynes	Present
Irving	Mr. Todd Reck f/Mayor ProTem James Dickens	Present
Keller	Mr. Rick Anderson f/Mr. Ed IIschner	Present
Mansfield	Councilmember Tracy Doyle	Present
North Richland Hills	Mr. David Smyth f/Mr. Mike Curtis	Present
Southlake	Mr. Pedram Farahnak	Absent
Trinity River Authority	Mr. Danny F. Vance	Present
	Director Hector Escamilla, Jr.	Absent
	Director Sylvia Greene	Present

- III. **Introduction of Guests, Consultants and Authority Staff**
 Authority Staff Present: Warren Brewer, Patricia Cleveland, Bill Smith, Randy Brooks, John Owens, John Nelson, Cheryl Abbott, Rosanne Robertson, Bill Decker, Alison Mackey, John Jadrosich, Bill Tatum, Mike Young, Bill Cyrus, and Shelley Fialho.

Guests:

Bedford – Jim Arrington
Carrollton – Stephen Jenkins
Colleyville – Ken Tywater
Dallas – Mike Mikeska
Euless – Chris Barker and Paul Wrzensinski
Farmers Branch – Mark Velten and David Ferguson
Grand Prairie – Ron McCuller
Grapevine – Bob Price
Mansfield – Bud Ervin
Alan Plummer Associates, Inc. – Alan Plummer and Betty Jordan
Black & Veatch Corporation – Layne Parsons and Amanda Zarazua
First Southwest Company – Boyd London and Mary Williams
McCall, Parkhurst & Horton – Chuck Kobdich
Sowell Company – John Kubala

IV. **Approval of Minutes of the September 16, 2003 Meeting**

Chairman Gravley asked if there were any revisions to the minutes of the September 16, 2003 meeting. There being none, a motion was made by Fiona Allen to approve the minutes as presented. The motion was seconded by Richard Fregoe, and a unanimous vote followed.

V. **Status Reports**

- A. Operations – Bill Tatum reviewed the monthly flows and effluent quality for FY 2003 and FY 2004 to date. Mr. Tatum gave a detailed explanation on the 102" sluice gate failure that occurred in March, as well as other emergencies that had occurred in FY 2004. Warren Brewer said that the sluice gate failure had resulted in a lot of interest from parties like AWWA and the result may include recommended changes to design standards.
- B. Financial – Patricia Cleveland said that the FY 2003 settlement letters with the inflow and infiltration adjustment had been mailed to customers in June; the FY 2004 IDM request had been mailed in July; and that the midyear FY 2004 reallocations reflecting the current trending flows had also been mailed. She continued that the year to date FY 2004 Budget flows were lower than projected; that the new power contract that became effective on June 1st had resulted in increased savings; and even with the increased cost of System emergency repairs, the System could possibly end the year below projected operations and maintenance cost.
- C. Regulatory – Patricia Cleveland said that the discharge permit application and renewal had been sent to TCEQ and that there had been many changes to our application for biosolids monitoring, including wet weather, blending, and CMOM.
- D. Planning, Design, Construction – Randy Brooks detailed the CRWS capital improvement programs in progress. He said the Authority was continuing to take steps to issue Series 2004 Bonds later this year, most likely through the Texas Water Development Board's State Revolving Fund program. He presented tables listing the various projects funded by prior bond sales.

VI. **Discussion: Presentation of Proposed FY 2005 Operating and Maintenance Budget**

- A. Budget Philosophy and Strategies
- B. System Flows and Allocations
- C. Budget Objectives
- D. Detailed Budget Review

Patricia Cleveland gave a presentation of the proposed FY 2005 Central Operations and Maintenance Budget, detailing system cost and revenue. A discussion followed with specific questions relating to some of the line items. Warren Brewer told members that each year the Authority presented the proposed budget; held a Budget Workshop, scheduled for September 1st; and encouraged our customer cities to call with any questions the members might have regarding the proposed budget.

VII. **Discussion: Odor Control Master Plan**

Warren Brewer said that urban development was increasing quickly around the Central Treatment Plant, increasing the need for odor control, both at the plant and in the communities with lift stations. He continued that management was pleased with the progress made and was now poised for the next round of improvements. Betty Jordan with Alan Plummer Associates, Inc. gave a detailed history of odor control at the Central System stating that the Authority had an aggressive phased approach to odor control and was now using the most advanced treatments. She said that to date the System had spent \$15.6 million and was currently in the planning phase for the next phased improvements.

VIII. **Action: Series 2004 Bonds for Capital Improvements**

Randy Brooks stated that a System Capital Improvements Program had been identified that included improvements for the 162 mgd plant and for the interceptor pipeline system to maintain capacity. Warren Brewer explained that after extensive discussions, it was recommended that Texas Water Development Board's State Revolving Funds be used for System improvements in the amount of \$106.475 million; and that a public sale for \$9.525 million be issued to cover the purchase of land rights that were not allowed in the SRF funds. After a discussion, Mayor ProTem Paul Walden motioned to approve the Authority Staff's recommendations. Fiona Allen seconded the motion and a unanimous vote followed.

IX. **Status Report on Retail Electric Power Supply Contract**

John Owens briefly told members that a letter had been included in their packet outlining the Authority's actions in providing the Central System with the most economical power supply possible, and presented a summary of past power supply contracts.

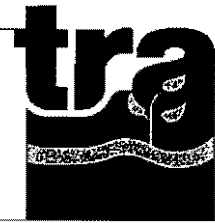
X. **Other Business**

Warren Brewer presented Bill Tatum and his staff with the Association of Metropolitan Sewerage Agencies' Platinum Award. Mr. Brewer explained that this award was given to plants that operated for a five-year period with no permit violations and that this was the second AMSA Platinum Award received for the Central System. Mr. Brewer also said that AMSA had developed a new Excellence in Management recognition program for the successful implementation of programs that address the management challenges facing public wastewater utilities and that TRA was one of only three who received the award in the state of Texas.

Mr. Brewer said that included in the meeting packet, for member's review and later discussion, was information relating to the competing reuse water permit between TRA and Irving. Mr. Brewer continued that TRA and Irving had met to discuss resolving the dispute, but in July had learned that a resolution had not been accomplished. Mr. Vance said that the matter had now been referred from TCEQ to an Administrative Law Judge and a hearing to establish parties with an interest in this matter would be scheduled soon in Austin.

XI. **Adjourn to Lunch**

There being no other business, Chairman Gravley adjourned the meeting at 12:20 p.m., and invited Members to remain for the catered lunch.



Northern Region Office

July 28, 2004

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

*Sept 1 10 AM
Budget
Workshop*

CENTRAL REGIONAL WASTEWATER SYSTEM ADVISORY MEETING
REMINDER NOTICE - Tuesday, August 10, 2004, 10:00 a.m.
MEETING PLACE - Central Regional Wastewater Treatment Plant
6500 West Singleton Blvd., Grand Prairie, Texas

This is a reminder that the Central Regional Wastewater System Advisory Committee will meet on Tuesday, August 10, 2004 at 10:00 a.m., at the **Central Regional Wastewater Treatment Plant in Grand Prairie, at 6500 West Singleton Blvd., Grand Prairie, Texas**. You are invited to remain after the meeting for a catered lunch. Please RSVP to Cheryl Abbott at 817-493-5100 or abbottc@trinityra.org prior to Friday, August 6, 2004.

For your review, we have enclosed an agenda, minutes of the September 16, 2003 meeting and information pertaining to the Series 2004 Bonds. As you will see from the agenda, there are several significant items that will be discussed at this meeting, including the proposed FY 2005 Operations and Maintenance Budget for the Central System.

Please contact this office at 817-493-5100, if you should have questions prior to this meeting.

Warren N. Brewer/cea

WARREN N. BREWER
Regional Manager
Northern Region

*RSVP'd
8/3*

WNB/cea

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations
Bill L. Tatum, Manager, CRWS



**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

AGENDA
CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., DALLAS, TEXAS
TUESDAY, AUGUST 10, 2004, 10:00 A.M.

I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Bob Cluck	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Bill Lindley	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Bob Johnson	_____
D/FW Airport	Mr. Jim Crites	_____
Duncanville	Mr. Kent Cagle	_____
Eules	Mr. Robert Barker	_____
Farmers Branch	Mayor ProTem Paul Walden	_____
Fort Worth	Mr. Frank Crumb	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Mayor ProTem James Dickens	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Tracy Doyle	_____
North Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Mr. Danny F. Vance	_____
	Director Hector Escamilla, Jr.	_____
	Director Sylvia Greene	_____

III. Introduction of Guests, Consultants and Authority Staff

- IV. **Approval of Minutes of the September 16, 2003 Meeting**

- V. **Status Reports**
 - A. Operations
 - B. Financial
 - C. Regulatory
 - D. Planning, Design, Construction

- VI. **Discussion: Presentation of Proposed FY 2005 Operating and Maintenance Budget**
 - A. Budget Philosophy and Strategies
 - B. System Flows and Allocations
 - C. Budget Objectives
 - D. Detailed Budget Review

- VII. **Discussion: Odor Control Master Plan**

- VIII. **Action: Series 2004 Bonds for Capital Improvements**

- IX. **Status Report on Retail Electric Power Supply Contract**

- X. **Other Business**

- XI. **Adjourn to Lunch**



**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

MINUTES

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
TUESDAY, SEPTEMBER 16, 2003 at 11 A.M.**

I. **Call to Order** – Chairman Gravley called the meeting to order at 11:10 a.m. and asked Warren Brewer to call roll.

II. **Roll Call**

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Jim Pierce/f Mr. Michael Murphy	Present
Arlington	Mr. Rick McCleery f/Mayor Bob Cluck	Present
Bedford	Mr. Jim Arrington f/Councilmember Jim Griffin	Present
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Mr. Greg Porter	Absent
Colleyville	Mr. Bill Lindley	Absent
Coppell	Mr. Ken Griffin	Absent
Dallas	Mr. Mike Mikeska f/Mr. Bob Johnson	Present
D/FW Airport	Mr. Dan Bergman f/Mr. Jim Crites	Present
Duncanville	Mr. Bill Willborn f/Mr. Kent Cagle	Present
Eules	Mr. Ron Young	Present
Farmers Branch	Mr. Mark Velten f/Mayor ProTem Paul Walden	Present
Fort Worth	Mr. Frank Crumb f/Mr. Dale Fisseler	Present
Grand Prairie	Councilmember Richard Fregoe	Present
Grapevine	Mr. Matt Singleton f/Mr. Jerry Hodge	Present
Hurst	Mr. Larry Martin f/Mr. Ron Haynes	Present
Irving	Mayor ProTem James Dickens	Present
Keller	Mr. Ricky Anderson f/Mr. Ed Ilschner	Present
Mansfield	Councilmember Tracy Doyle	Present
N. Richland Hills	Mr. David Smyth for/Mr. Mike Curtis	Present
Southlake	Mr. Pedram Farahnak	Absent
Trinity River Authority	Mr. Danny F. Vance	Present
	Director Hector Escamilla, Jr.	Absent
	Director Sylvia Green	Absent

III. **Introduction of Guests, Consultants and Authority Staff**

TRA Staff present were Warren Brewer, Patricia Cleveland, Bill Smith, John Nelson, Cheryl Abbott, Alison Mackey, Bill Tatum, Mike Young, and Shelly Fialho.

- Carrollton – Stephen Jenkins
- Eules – Chris Barker
- Grand Prairie – Ron McCuller
- Irving – Jim Moffatt
- Mansfield – Chris Burkett and Bud Ervin

Midlothian – Robyn Forsyth and Judy Ford
Venus – Mayor Carolyn Welcher, Jerry Reed, and Linda Taylor
First Southwest Company – Boyd London
Black & Veatch – Layne Parsons

IV. **Approval of Minutes of the August 12, 2003 Meeting**

Chairman Gravley asked if there were any revisions to the minutes of the August 12, 2003 meeting. There being none, Ron Young made a motion that the minutes be approved as presented, Councilmember Fregoe seconded the motion, and a unanimous vote followed.

V. **Status Reports**

- A. Operations – Bill Tatum summarized flows for the month of August, stating that it had been an unusually wet month and that there had been one System outflow.
- B. Financial – Patricia Cleveland reported that the System was 75% into the FY 2003 budget, and that city flows were trending approximately 4 to 4.5 mgd less than projected. She continued that IDM information requests had been mailed to the customer cities and that the information was now being received.
- C. Regulatory – Patricia Cleveland stated that the TPDES permit renewal had been submitted to the State, but a response had not been received. She indicated that the System would continue to operate under the current permit until the new permit had been received.
- D. Capital Improvement Planning – Bill Smith said that Randy Brooks had provided a handout at the August meeting and had summarized the 2004 capital improvement bond sale. Mr. Smith stated that staff was continuing to review needed System improvements and available funding options.

VI. **Action: Proposed FY 2004 Operating and Maintenance Budget**

- A. Review of Budget Philosophy, Strategies, Objectives, and Contents
- B. Committee Action on Proposed FY 2004 Budget

Warren Brewer reminded Members that at the August 12 meeting, a detailed presentation of the proposed FY 2004 Operating and Maintenance Budget was discussed. He continued that a Budget workshop had also been conducted and that he felt all questions about the proposed budget had been addressed.

Patricia Cleveland gave a budget overview. There was a brief question and answer series covering emergency reserve funds and debt service coverage. At the end of the discussion, Chairman Gravley asked if there were any other questions and there were none. Jim Pierce made a motion to recommend that the proposed FY 2004 Central Regional Wastewater System Budget be approved by the Authority's Board of Directors. Ron Young seconded the motion, and a unanimous vote followed.

VII. **Other Business**

There was no other business to be discussed.

VIII. **Adjourn to Lunch**

Chairman Gravley adjourned the meeting at 11:40 a.m., and invited Members to remain for a catered lunch.

**CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2003**

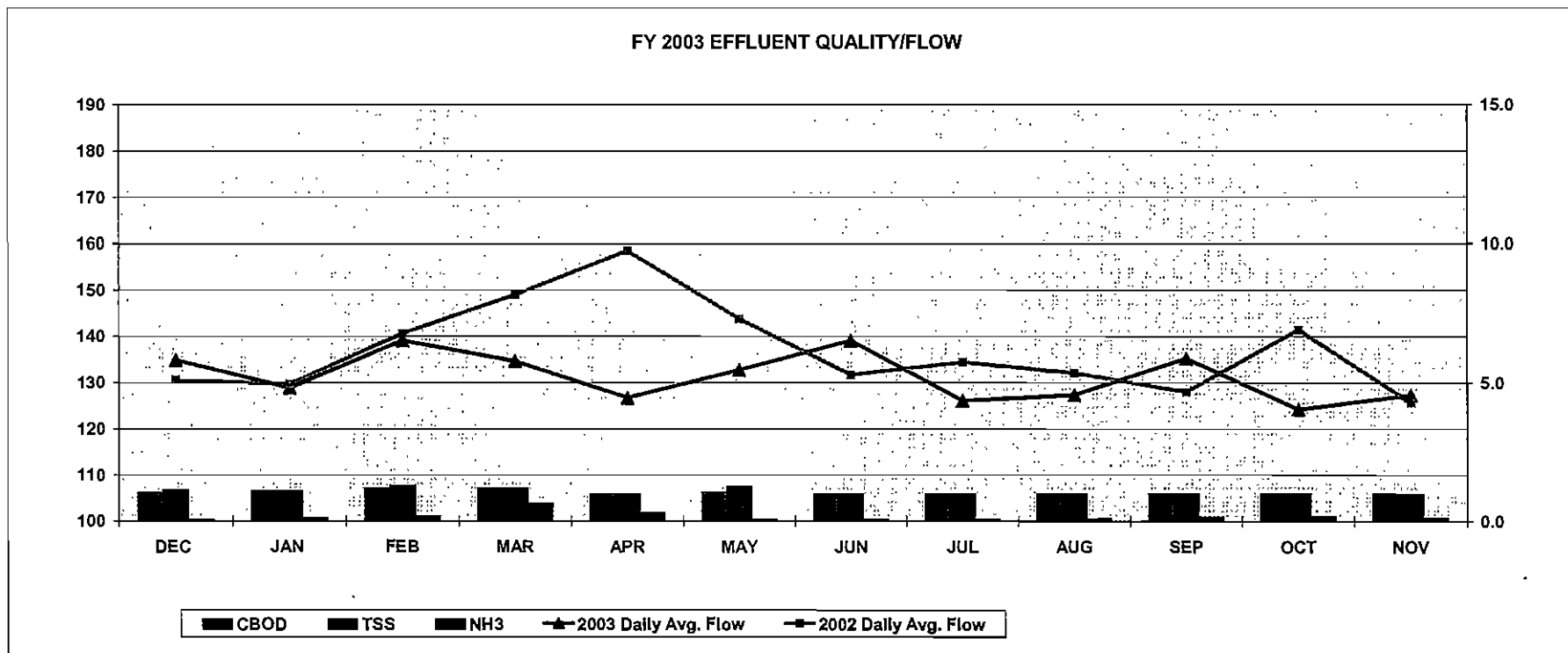
PERMITS NO: 10303-001 (TX0022802)

	FLOW ANNL.AVG	FLOW DLY.AVG.	FLOW DLY.MAX.	FLOW 2-HR PK	FLOW 2-HR PK	RAINFALL TOTAL**	CBOD DLY.AVG.	CBOD DLY.MAX.	CBOD DLY.AVG.	TSS DLY.AVG.	TSS DLY.MAX.	TSS DLY.AVG.	NH3 DLY.AVG.	NH3 DLY.MAX.	NH3 DLY.AVG.	DO MIN.	pH MAX.	pH MIN.	CL2 MIN.	CL2 OUTFALL	COLLECT. SYSTEM NO. OF OUTFLOWS
PERMIT LIMIT:	162 MGD	REPORT MGD	REPORT MGD	281250 GPM	MGD	INCHES	7 MG/L	17 MG/L	9458 LBS/DAY	15 MG/L	40 MG/L	20266 LBS/DAY	2/4 MG/L	7 MG/L	2702/5404 LBS/DAY	6 MG/L	9 S.U.	6 S.U.	1 MG/L	.099 MG/L	
DEC	137.503	134.853	181.590	136912	197.153	4.13	1.0	2.0	1158.2	1.1	2.0	1278.3	0.065	0.169	72.7	8.5	7.3	7.0	1.10	0.00	0
JAN	137.433	128.809	140.780	108468	156.194	0.22	1.1	2.0	1175.8	1.1	2.0	1181.5	0.133	1.053	142.8	8.9	7.4	6.9	1.01	0.00	0
FEB	137.315	139.059	203.770	144353	207.868	5.07	1.2	2.0	1389.5	1.3	3.0	1511.4	0.194	1.378	216.5	8.6	7.3	6.9	1.02	0.00	0
MAR	136.090	134.567	155.270	125458	180.660	0.85	1.2	2.0	1345.3	1.2	2.0	1305.5	0.641	3.639	720.3	8.5	7.3	6.8	1.12	0.00	0
APR	133.470	126.720	141.580	108124	155.699	1.90	1.0	1.0	1056.8	1.0	2.0	1090.9	0.310	3.540	320.3	8.1	7.4	6.8	1.04	0.00	0
MAY	132.530	132.691	174.560	137735	198.338	2.53	1.1	2.0	1176.6	1.3	2.0	1380.6	0.078	0.171	86.3	7.5	7.3	6.9	1.06	0.00	0
JUN	133.139	139.079	198.840	151308	217.884	5.17	1.0	1.0	1159.9	1.0	1.0	1159.9	0.074	0.119	86.1	7.5	7.4	6.9	1.05	0.00	1
JUL	132.390	126.118	136.740	106013	152.659	0.08	1.0	1.0	1051.8	1.0	1.0	1051.8	0.070	0.200	72.8	7.4	7.3	6.9	1.08	0.00	0
AUG	131.987	127.320	166.500	130287	187.613	1.85	1.0	1.0	1061.9	1.0	1.0	1061.9	0.102	0.287	108.1	7.4	7.3	7.0	1.00	0.00	1
SEP	132.579	135.193	204.000	164791	237.299	3.99	1.0	1.0	1127.5	1.0	1.0	1127.5	0.172	0.495	193.5	7.6	7.2	6.8	1.02	0.00	0
OCT	131.124	124.230	141.720	105833	152.400	0.78	1.0	1.0	1036.1	1.0	1.0	1036.1	0.200	0.595	212.5	7.7	7.2	7.0	1.00	0.00	0
NOV	131.255	127.278	155.100	117680	169.459	3.15	1.0	1.0	1061.5	1.0	1.0	1061.5	0.134	0.378	142.3	7.9	7.2	6.9	1.06	0.00	0
AVG	133.901	131.326	166.704	128080	184.435	2.48	1.0	1.4	1150.1	1.1	1.6	1187.2	0.181	1.002	197.9	8.0	7.3	6.9	1.05	0.00	2
MAX	137.503	139.079	204.000	164791	237.299	5.17	1.2	2.0	1389.5	1.3	3.0	1511.4	0.641	3.639	720.3	8.9	7.4	7.0	1.12	0.00	
MIN	131.124	124.230	136.740	105833	152.400	0.08	1.0	1.0	1036.1	1.0	1.0	1036.1	0.065	0.119	72.7	7.4	7.2	6.8	1.00	0.00	
TOTAL	1606.815	1575.917				29.72			13800.9			14246.9			2374.2						

90% FLOW = 145.800 MGD
75% FLOW = 121.500 MGD

* EXCURSIONS: 0 TCEQ
0 EPA

**Rainfall totals are measured at DFW Airport



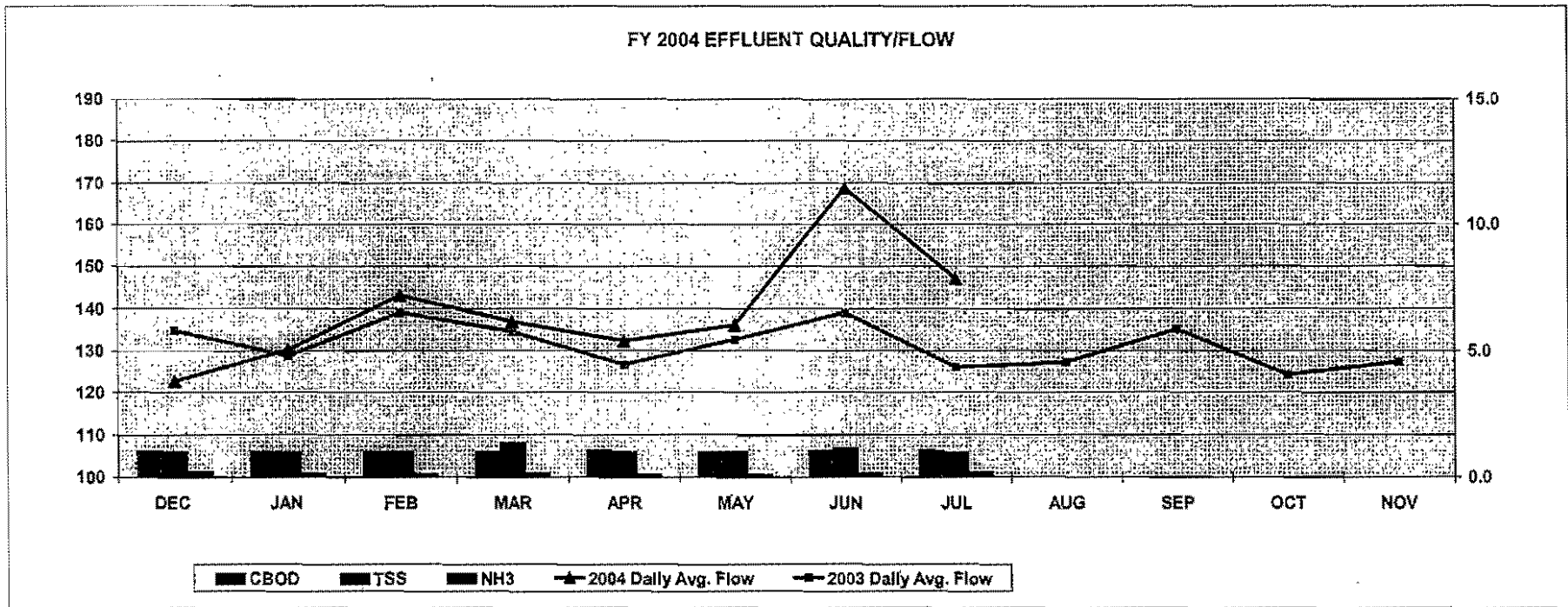
AGENDA ITEM V-A

PERMIT LIMIT:	FLOW ANNL.AVG	FLOW DLY.AVG.	FLOW DLY.MAX.	FLOW 2-HR PK	FLOW 2-HR PK	RAINFALL TOTAL**	CBOD DLY.AVG.	CBOD DLY.MAX.	CBOD DLY.AVG.	TSS DLY.AVG.	TSS DLY.MAX.	TSS DLY.AVG.	NH3 DLY.AVG.	NH3 DLY.MAX.	NH3 DLY.AVG.	DO MIN.	pH MAX.	pH MIN.	CL2 MIN.	CL2 OUTFALL	COLLECT. SYSTEM NO. OF OUTFLOWS	
	162 MGD	REPORT MGD	REPORT MGD	201250 GPM	MGD	INCHES	7 MGL	17 MGL	9458 LBS/DAY	15 MGL	40 MGL	20266 LBS/DAY	2/4 MGL	7 MGL	2702/5404 LBS/DAY	5 MGL	9 S.U.	6 S.U.	1 MGL	.089 MGL		
DEC	130.218	122.641	144.020	106829	153.834	0.96	1.0	2.0	1053.1	1.0	1.0	1022.8	0.205	0.822	214.9	8.3	7.1	6.8	1.13	0.05	0	
JAN	130.342	130.266	217.830	173207	249.418	3.04	1.0	1.0	1086.4	1.0	1.0	1086.4	0.138	0.324	149.0	8.4	7.1	6.8	1.04	0.00	0	
FEB	130.689	143.128	206.636	155584	224.473	3.84	1.0	1.0	1193.7	1.0	1.0	1193.7	0.130	0.345	156.2	8.8	7.4	6.8	1.24	0.00	0	
MAR	130.888	136.929	180.850	133159	191.749	1.71	1.0	1.0	1142.0	1.4	2.0	1545.1	0.161	0.474	183.9	8.5	7.2	6.9	1.22	0.04	1	
APR	131.353	132.393	187.500	150430	216.619	2.96	1.1	3.0	1172.7	1.0	1.0	1104.2	0.108	0.365	124.1	8.2	7.2	7.0	1.06	0.01	0	
MAY	131.648	136.171	173.150	138964	200.108	4.73	1.0	1.0	1135.7	1.0	2.0	1169.3	0.112	0.508	130.8	7.9	7.3	7.1	1.11	0.00	0	
JUN	134.085	168.814	267.330	207454	298.734	10.49	1.0	2.0	1451.1	1.2	2.0	1596.0	0.163	0.347	232.3	7.5	7.3	7.0	1.03	0.00	3	
JUL	135.872	147.211	250.320	204068.0	293.858	4.16	1.1	3.0	1322.5	1.0	1.0	1227.7	0.204	0.634	257.8	7.3	7.3	6.7	1.08	0.00	3	
AUG																						
SEP																						
OCT																						
NOV																						
																						TOTAL:
AVG	131.887	139.694	203.5	158749.4	228.599	3.99	1.0	1.8	1194.7	1.1	1.4	1243.2	0.153	0.477	181.1	8.1	7.2	6.9	1.11	0.01	7	
MAX	135.872	168.814	267.3	207454.0	298.734	10.49	1.1	3.0	1451.1	1.4	2.0	1596.0	0.205	0.822	257.8	8.8	7.4	7.1	1.24	0.05		
MIN	130.218	122.641	144.0	106829.0	153.834	0.96	1.0	1.0	1053.1	1.0	1.0	1022.8	0.108	0.324	124.1	7.3	7.1	6.7	1.03	0.00		
TOTAL	1055.894	1117.553				31.89			9587.2			8943.2			1449.0							

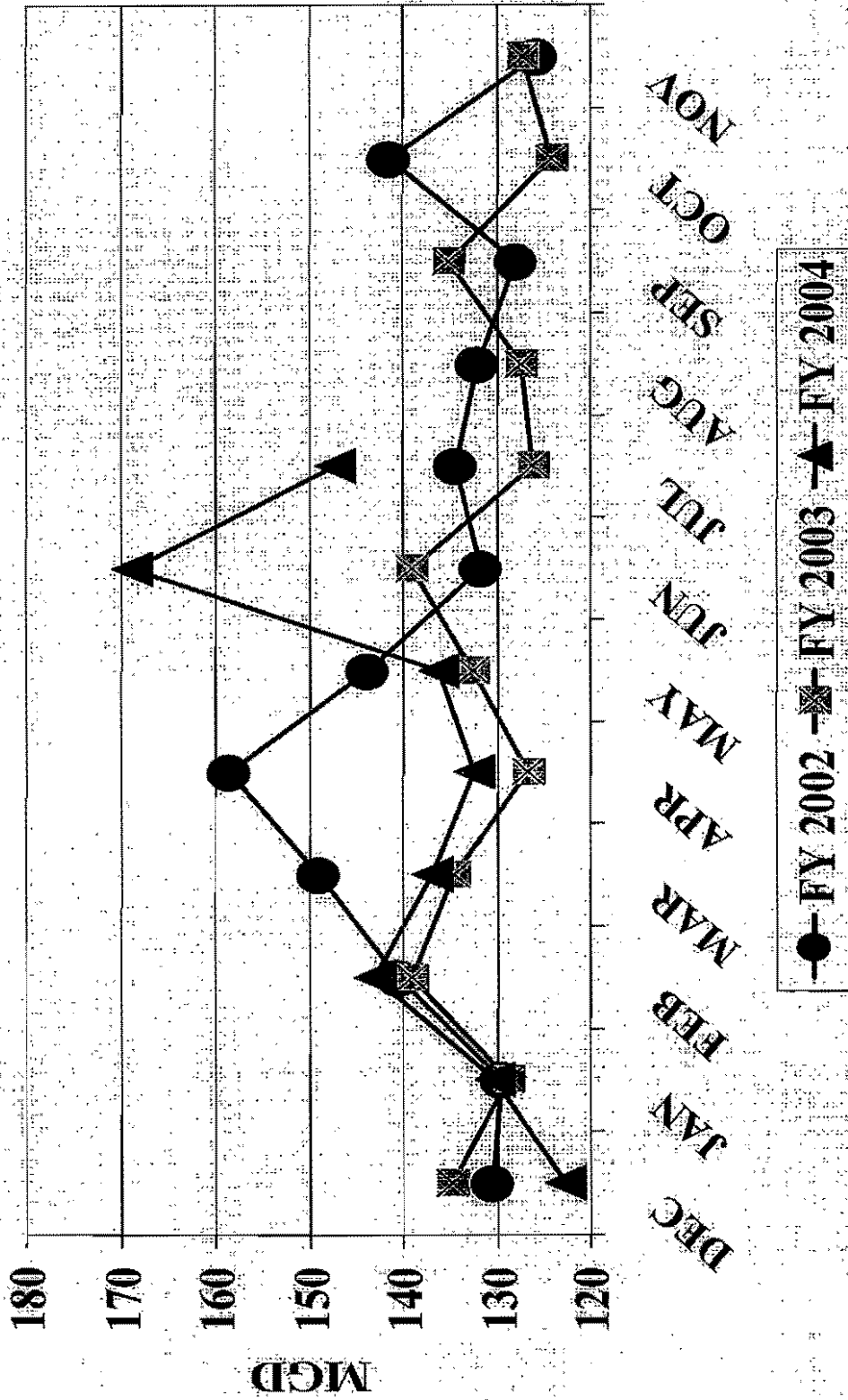
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**Rainfall totals are measured at DFW Airport

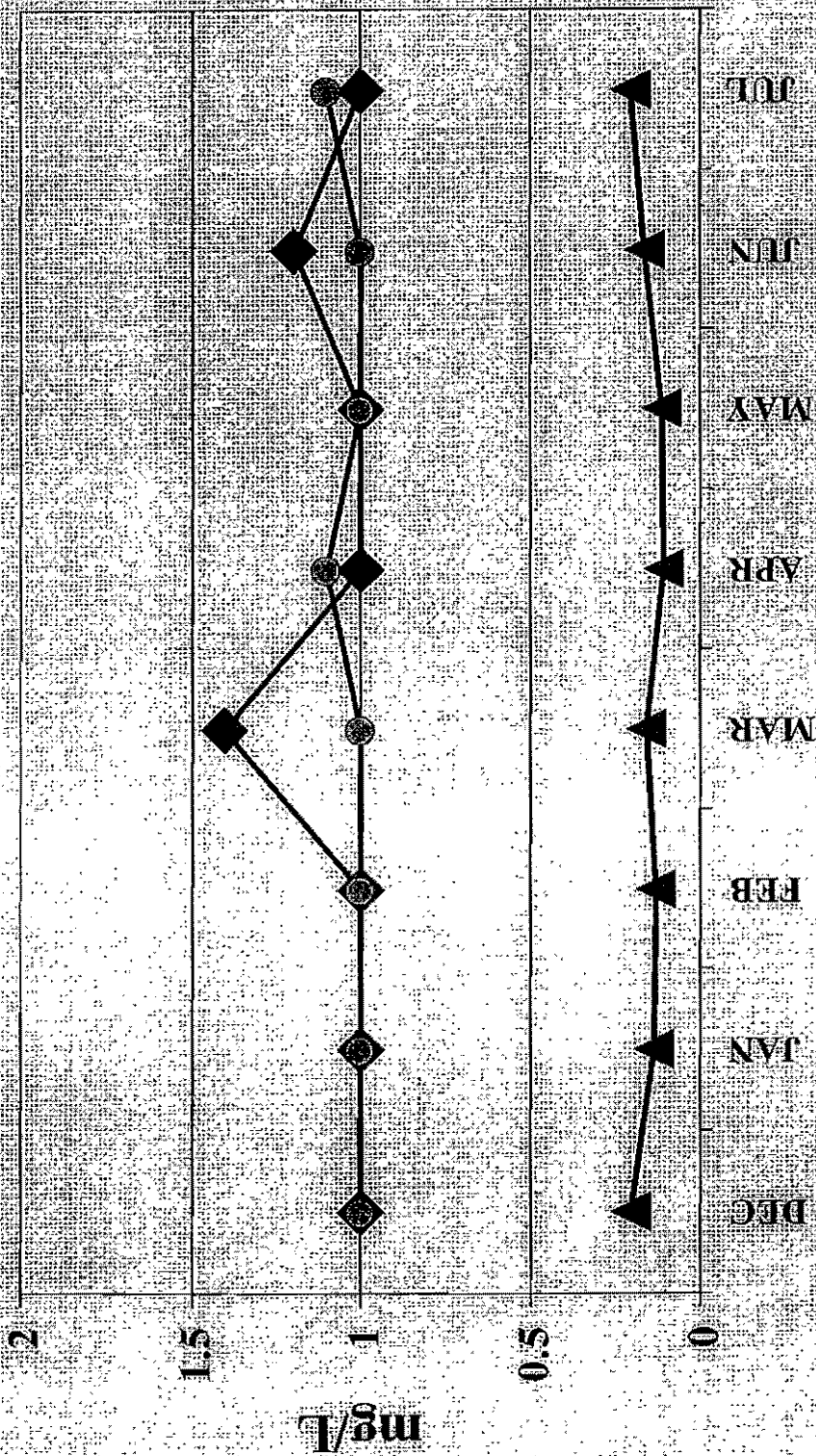


CRWS EFFLUENT DAILY AVERAGE FLOW



CRWS EFFLUENT QUALITY

December 2003 – July 2004



◆ TSS ● CBOD ▲ NH3

Permit Limits
TSS 15 mg/L CBOD 7 mg/L NH3 2/4

AGENDA ITEM V-B

CRWS - FY 2004 MID YEAR REALLOCATION

7/8/2004

CONTRACTING PARTY	2004 BUDGET MGD	2004 BUDGET % SHARE	2004 REVISED MGD	2004 REVISED % SHARE
ADDISON	2.280	1.508%	2.145	1.540%
ARLINGTON	46.370	30.666%	41.510	29.793%
BEDFORD	4.900	3.241%	4.648	3.336%
CARROLLTON	13.700	9.060%	13.764	9.879%
CEDAR HILL	0.324	0.214%	0.355	0.255%
COLLEYVILLE	2.550	1.686%	2.377	1.706%
COPPELL	4.200	2.778%	3.864	2.773%
DALLAS	8.250	5.456%	8.879	6.372%
DFW AIRPORT	2.310	1.528%	2.028	1.456%
DUNCANVILLE	0.200	0.132%	0.206	0.148%
EULESS	4.275	2.827%	3.376	2.423%
FARMERS BRANCH	6.700	4.431%	5.412	3.884%
FORT WORTH	1.580	1.045%	1.359	0.975%
GRAND PRAIRIE	15.512	10.259%	16.550	11.879%
GRAPEVINE	1.811	1.198%	1.556	1.117%
HURST	0.207	0.137%	0.206	0.148%
IRVING	26.900	17.790%	22.377	16.061%
KELLER	2.654	1.755%	2.302	1.652%
MANSFIELD	4.125	2.728%	3.789	2.720%
N RICHLAND HILLS	0.660	0.436%	0.700	0.502%
SOUTHLAKE	1.700	1.124%	1.924	1.381%
TOTAL	151.2080	100.000%	139.327	100.000%

Minor variations may occur due to rounding

CENTRAL REGIONAL WASTEWATER SYSTEM
 FY 2003 SCHEDULE OF ACTUAL ANNUAL REQUIREMENT ADJUSTED FOR INTERCEPTOR I/I (METHOD 2)

CONTRACTING PARTY	FY 2003 CONTRIBUTION BASED ON ACTUAL FLOW		DISTRIBUTION OF FY 2003 ACTUAL ANNUAL REQUIREMENT BASED ON ACTUAL FLOWS	TRA INTERCEPTOR I/I (MG)	ADJUSTED FY 2003 CONTRIBUTION		ADJUSTED DISTRIBUTION OF FY 2003 ACTUAL ANNUAL REQUIREMENT	FY 2003 ACTUAL ANNUAL REQUIREMENT ADJUSTMENT
	TOTAL FLOW (MG)	PERCENT			TOTAL FLOW (MG)	PERCENT		
ADDISON	769.880	1.506%	\$801,012		769.880	1.516%	\$806,331	\$5,319
ARLINGTON	15,073.996	29.490%	\$15,685,160	0.088	15,073.908	29.684%	\$15,798,345	\$103,185
BEDFORD	1,697.029	3.320%	\$1,765,844		1,697.029	3.342%	\$1,777,545	\$11,701
CARROLLTON	5,005.909	9.793%	\$5,208,707		5,005.909	9.858%	\$5,243,279	\$34,572
CEDAR HILL	120.319	0.235%	\$124,992		120.319	0.237%	\$126,056	\$1,064
COLLEYVILLE	908.941	1.776%	\$945,684	6.585	902.356	1.777%	\$945,152	(\$532)
COPPELL	1,440.094	2.817%	\$1,498,308		1,440.094	2.836%	\$1,508,413	\$10,106
DALLAS	3,565.194	6.975%	\$3,709,867	43.042	3,522.152	6.936%	\$3,689,124	(\$20,743)
D/FW AIRPORT	686.852	1.344%	\$714,848		686.852	1.352%	\$719,103	\$4,255
DUNCANVILLE	66.447	0.130%	\$69,144		66.447	0.131%	\$69,676	\$532
EULESS	1,203.925	2.355%	\$1,252,579	68.136	1,135.789	2.237%	\$1,189,617	(\$62,762)
FARMERS BRANCH	2,237.118	4.377%	\$2,328,042	0.203	2,236.915	4.405%	\$2,342,934	\$14,893
FORT WORTH	394.168	0.771%	\$410,080	19.181	374.987	0.738%	\$392,528	(\$17,552)
GRAND PRAIRIE	5,081.346	9.941%	\$5,287,425	164.924	4,916.422	9.681%	\$5,149,136	(\$138,289)
GRAPEVINE	550.952	1.078%	\$573,367	6.804	544.148	1.072%	\$570,176	(\$3,191)
HURST	70.990	0.139%	\$73,931		70.990	0.140%	\$74,463	\$532
IRVING	9,103.610	17.810%	\$9,472,794		9,103.610	17.927%	\$9,535,024	\$62,230
KELLER	822.889	1.610%	\$856,328	3.464	819.425	1.614%	\$858,455	\$2,128
MANSFIELD	1,311.763	2.566%	\$1,364,806		1,311.763	2.583%	\$1,373,848	\$9,042
N RICHLAND HILLS	255.781	0.500%	\$265,940	11.547	244.234	0.481%	\$255,835	(\$10,106)
SOUTHLAKE	748.936	1.465%	\$779,205	10.984	737.952	1.453%	\$772,823	(\$6,383)
	51,116.138	100.000%	\$53,188,063	334.958	50,781.180	100.000%	\$53,188,063	\$0

AGENDA ITEM V-B

CENTRAL REGIONAL WASTEWATER SYSTEM
CAPACITY FOR UPSTREAM CITY (METHOD 2)

Delta Meter		Upstream Meter(s)						Upstream Interceptor			Downstream Interceptor		
City	Meter ID	City	Meter ID	Node	Lateral	Interceptor	Sta. No.	Diameter	Slope	Capacity (cfs)	Diameter	Slope	Capacity (cfs)
Farmers Branch	13.0E	Addison	13.1E	1930E	EF012	EF2R	537.43	30	0.00270	21.310	30	0.00220	19.240
		Addison	13.2E	1930E	EF012	EF2R	537.43	18	0.01050	10.760	15	0.00500	4.570
		Addison	13.3E	1930E	EF012	EF2R	537.43	City			18	0.00720	8.910
Grapevine	11.8B	Colleyville	11.9B	3460B	BC019	BBCXII	7310.00	48	0.00070	37.998	48	0.00080	40.738
		DFW	11.7B	2900B	BC017	BBC	9384.00	12	0.00400	2.250	12	0.00400	2.250
Colleyville	11.9B	Southlake	13.5B	3810B	BC020	BBCXIII	19240.00	36	0.00220	31.369	36	0.00240	32.763
		Southlake	12.1B	3590B	BC019	BBCXII	450.00	18	0.00120	3.649	18	0.00120	3.649
		Southlake	12.3B	4120B	BC016	BBCXIII	85.00	City			15	0.00150	2.509
		Southlake	12.7B	4090B	BC020.4	BBCXIII	325.00	City			15	0.00460	4.000
Southlake	13.5B	Keller	12.6B	4060B	BC018	BBCXI	25985.00	36	0.00172	27.712	36	0.00172	27
Keller	12.8B	North Richland Hills	13.3B	6260B	BC019.3	BBCXII	3128.06	12	0.00200	1.598	12	0.00200	1.598
		Southlake	13.6B	4920B	BC018.1	BBCXI	90.00	18	0.01700	13.700	21	0.00100	5.010
Euless	12.0B	Grapevine	12.6B	6090B	BC013	GV7R	5325.00	12	0.00202	1.606	12	0.00880	3.351
		Colleyville	12.9B	2395B	BC010	CO17	5436.48	End of Line			12	0.00241	1.754
		Colleyville	13.0B	1580B	BC007	LBCI	9600.00	42	0.00228	48.170	42	0.00240	49.421
		Bedford	13.1B	2460B	BC012	B13	2266.00	City			12	0.00200	1.598
North Richland Hills	14.0B	Keller	14.7B	MS14.7B	BC008.1	LBCII	35540.00	City			12	0.00580	2.721
		Keller	15.0B	2210B	BC008	LBCII	38040.00	21	0.00200	7.105	21	0.00339	9.250
Keller	15.0B	North Richland Hills	16.0B	MS16.0B	BC008.2	LBCII	38837.00	City			8	0.00400	0.766
Grand Prairie	5.0W	Arlington	6.0W	1470W	WF003	WFXJB	13100.00	27	0.00770	27.249	27	0.00770	27.249
Grand Prairie	7.0W	Arlington	8.0W	1780W	WF004	WFXJC	15746.82	42	0.00148	38.810	42	0.00260	45.115
Arlington	9.0W	Grand Prairie	9.5W	MS9.5W	WF015.1	WFCEO	2441.32	City			6	0.00800	0.503
		Grand Prairie	9.7W	MS9.7W	WF015.2	WFCEO	2441.32	City			6	0.00480	0.390
		Grand Prairie	9.8W	MS9.8W	WF015.4	WFCEO	2441.32	City			8	0.00800	1.084
Fort Worth	10.0W	Euless	11.6W	MS11.6W	WF011.1	BBP	6766.00	City			10	0.00340	1.281
		Euless	11.8W	2460W	WF011	BBP	12767.50	24	0.00408	14.489	24	0.00410	14.524
Euless	11.8W	Fort Worth	10.5W	2470W	WF011	BBP	13121.76	City			12	0.08160	10.180
		Bedford	11.9W	2860W	WF013.1	BBPI	20.00	End of Line			12	0.01450	4.302
Euless	13.0W	Bedford	15.0W	3720W	WF017	TJO	2156.00	City			12	0.00339	2.080
		Bedford	15.5W	MS15.5W	WF018.1	HCT	1142.32	City			12	0.00300	1.957
		Bedford	16.0W	3760W	WF018	HCT	2621.65	City			18	0.00340	6
Euless	16.5W	Bedford	17.0W	3330W	WF016	BOT	8783.00	10	0.00850	2.025	10	0.00400	1.1
Euless	18.0W	Bedford	18.1W	3539W	WF014B	EOS	650.00	12	0.00317	2.011	12	0.32000	20.209
		Hurst	18.6W	MS18.6W	WF014A.3	EOSB	3525.65	City			10	0.02000	3.107
		Bedford	19.0W	3860W	WF019	SBT	7560.00	18	0.01980	14.821	18	0.00340	6.142
		Bedford	19.1W	3480W	WF014A	EOSB	2747.16	36	0.00440	44.362	27	0.00440	20.599
Grand Prairie	5.0J	Arlington	7.0J	1810J	JT008	CWRR	20372.81	City			30	0.00550	30.501
		Arlington	8.0J	MS8.0J	J1001	CWCS	11390.00	21	0.00100	5.024	21	0.00802	14.228
Dallas	3.0M	Duncanville	4.5M	MS4.5M	MC002.1	MC2	148.00	City			15	0.01350	7.526
		Grand Prairie	5.1M	380M	MC006	FCCP	18.00	60	0.00150	101.140	60	0.00150	101.140
		Grand Prairie	5.3M	2120M	MC004	EMCR	109.20	30	0.00100	13.006	27	0.00266	16.016
		Cedar Hill	CH	2290M	MC012	NEL	29700.00	FM			24	0.02401	35.148
Grand Prairie	5.1M	Arlington	7.0M	1080M	MC007	NFFC	16340.00	27	0.00260	15.834	27	0.00260	15.834
		Arlington	9.0M	8030M	MC005	SFFCR	953.50	30	0.00400	26.011	30	0.00400	26.011
		Arlington	9.6M	1950M	MC010	BOWBR	4558.00	36	0.00219	31.297	36	0.00220	31.369
		Mansfield	10.0M	1840M	MC009	WCT	17987.61	27	0.00075	8.504	27	0.00075	8.504

CENTRAL REGIONAL WASTEWATER SYSTEM INTERCEPTOR I/I PRORATION METHOD 2

The following is a description of Method 2 for prorating CRWS interceptor infiltration/inflow (I/I) to the contracting party flows.

1. Determine the annual volume of I/I for each subsystem defined by a delta meter location. $ADF - ADDF = I/I$ (annually).

The use of delta meter subsystem values assumes that the annual average I/I per idm for the CRWS interceptors and the city collection system served by the interceptor is the same within the delta meter subsystem. The interceptors upstream of non-delta meters are considered to be lines required to serve the metered city, regardless of ownership. The evaluation of I/I annually will provide a trending to account for annual rainfall, I/I reduction in the CRWS and the city collection systems, and any other changes in the condition of the systems.

2. Determine the city inch-diameter-miles (idm) within the delta meter subsystem. The delta meter subsystem idm could be determined annually, or assumed to remain the same for a period of three to five years.
3. Determine the CRWS interceptor idm within the delta meter subsystem.
4. Determine the annual subsystem I/I per idm. (No. 1 divided by the sum of No. 2 and No. 3).
5. Determine the adjusted CRWS interceptor idm. The adjusted interceptor idm is based on the interceptor size required to transport the existing flow capacity provided for the upstream city using the slope of the existing CRWS interceptor segments from the upstream meter to the delta meter. The existing interceptor size in excess of the size required for the upstream city is considered to be required to serve the delta metered city, regardless of ownership.
6. Apply the annual subsystem I/I per idm to the adjusted CRWS interceptor idm. (No. 4 multiplied by No. 5).
7. Adjust the Fiscal Year Contribution Based on Actual Flow for each of the contracting parties.
8. Adjust the Distribution of Fiscal Year Actual Annual Requirement Based on Actual Flows for each of the contracting parties.

**CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION
FLOW ANALYSIS CRITERIA**

The average annual daily flow (ADF) is defined to be the total annual flow divided by the total number of days in the year.

The average daily dry weather flow (ADDF) is defined to be the lowest seven day average flow recorded during the year.

The following criteria are established for the analysis of the flows used to determine the ADF and ADDF for the interceptor I/I proration.

1. The beginning of the fiscal year for flow recordings may result in partial inclusion of the first seven day average meter recording. Partial seven day average meter recordings consisting of less than four (4) days will not be considered for use as the ADDF.
2. During the year, there may be a need to adjust the recorded flows. The reason for these adjustments may include, but not be limited to line blockage or year-to-date (YTD) adjustments. Adjusted flows will not be considered for use as ADDF.

July 12, 2004
(Previous report August 6, 2003)

CENTRAL REGIONAL WASTEWATER SYSTEM PLANNING, DESIGN AND CONSTRUCTION PROJECTS STATUS REPORT * & **

PLANNING and OTHER ACTIVITIES

Name: 2004 Series Bond Sale
Status: Completed 2001 Five Year Plan Update in January 2001
Submitted 2004 IUP to TWDB in March 2003
Approved by TWDB to submit loan application in October 2003
Authorized APAI to prepare Engineering report in April 2004
Work approx. 75% complete
Authorized to prepare POS for bond sale in April 2004
Authorized to submit TWDB loan application by August 31, 2004
Anticipated Bond Sale in 2004

Name: Land I Management Plan – Phase IV
Type: Flow and Rainfall Data Collection and Evaluation
Status: Contract awarded in December 2001
Final report in progress
Work is approximately 96% complete

Name: Wet Weather Flow Evaluation
Type: Evaluation of Technologies and Alternatives
Status: Contract awarded in 2001
Work is approximately 95% complete

Name: Oxygen Feed Pilot Study
Type: Oxygen Pilot Study, Odor Survey and Monitoring
Status: Contract awarded in 2002
Odor surveys and data collection complete
Work is approximately 99% complete

Name: Phase IV Master Plan Project
Type: Master Plan Report
Status: Contract awarded in 2002
Work is approximately 96% complete

Name: GIS Implementation Plan
Type: Software Purchase, Development, and Installation
Status: Contract awarded in 2003
Installed GIS Software/Training in early 2004
Developing Software linkages in progress
Work is approximately 68% complete

Location: Cities of Farmers Branch and Dallas
North of Spur 348 to I-635
Type: 72" parallel relief of 12,900 ft. 72" diameter pipeline
Status: Design initiated in August 1998
Design 65% complete
Easement acquisition to begin in 2002
Anticipated construction award by 2005

MOUNTAIN CREEK INTERCEPTOR SYSTEM

Name: Kirby Creek Outfall Interceptor
Location: City of Grand Prairie
From Fish Creek to Great Southwest Parkway
Type: Preliminary Engineering Study and Environmental Assessment of 20,500 ft. of 12" to 24" line
Status: Preliminary Design Contract awarded in August 1998
Preliminary Engineering Study completed August 1999
Environmental Assessment completed by March 2001
Preliminary Engineering and Environmental Work is 94% complete
Final Design initiated in late 2002
Final Design is 73% complete
Easement acquisition in progress
Anticipated construction award in 2004

Name: MCKC II Rehabilitation
Location: City of Grand Prairie
Upstream of LS 4 along Mountain Creek Lake
Type: Rehab 4,650 ft. of 30" diameter pipeline
Status: Design work initiated in 2001
ESA approved in 2004
Design 100% complete
Easement acquisition completed in 2004
Anticipated construction award by August 2004

Name: Jefferson Avenue Pipeline
Location: City of Grand Prairie
From Mountain Creek near Loop 12 to SE 14th Street
Type: Preliminary Engineering Study of approximately 20,000 ft. of 30" diameter line
Status: Preliminary Design Contract awarded in 2003
Study <10% complete
Anticipated construction award in 2005

Preliminary engineering and environmental assessment completed March 2000
Engineering evaluations & negotiation of pipeline relocation, November 1999 to
December 2001
Revised draft environmental assessment completed in April 2001
Revised pipeline alignment in summer 2001
Additional Archeological Investigations completed in June 2003
Design 81% complete
Easement acquisition begun in late 2001
Anticipated construction award in late 2004

PLANT AND OTHER SYSTEM PROJECTS

Name: Pump Stations 6, 7, and 13 Evaluation(this is finished)
Type: Planning, Design, and Testing
Status: Contract awarded in early 2003
Work is approximately 98% complete

Name: Class A Bio-Solids Stabilization
Type: Design Report and Construction Services
Status: Contract awarded in early 2003
Work is approximately 89% complete

Name: FY2004 Interceptor I/I Proration
Type: IDM and I/I Flow Adjustment
Status: Contract awarded in 2003
Work is approximately <5% complete

Construction 80% complete
Construction to be completed by September 2004

Name: West Fork Relief Interceptor, WF-C, N, B, P, & M
Location: City of Arlington
From West of Hwy. 360 to west of Collins Street
Type: 72" parallel relief of existing 54" & 60" lines
Status: Design initiated in 1996
Design completed in December 1998
EA completed by December 1998
Construction contract awarded in December 1998
Construction 97% complete
Construction to be completed by end of 2004

PLANT PROJETS

Name: Bar Screening Improvements, Phase I and II
Location: PS 6/6A
Type: Plant
Status: Design of Phase I is 100% complete
Design of Phase II is 100% complete
Construction contract awarded in June 2002
Construction 86% complete
Construction to be completed by August 2004

List of Construction Project Improvements Completed since August 2003 Report

Name: Little Bear Creek CO-1/GV-4
Location: City of Hurst
East of Precinct Road, north of SP RR/West of Hwy 121& north of Glade
Type: Rehabilitation of 1500 ft. of 12" diameter line/200 ft. line repair
Status: Project added to BC Rehab. in 1998
Final Design completed in June 2001
Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction completed in 2004

Name: West Fork Interceptor, Johnson Branch Relocation
Location: City of Grand Prairie
Type: Design and Construction Phase Engineering
Status: Design awarded in early 2003
Draft Environmental Assessment completed
Design is 100% complete

Name: Elm Fork Interceptor, MS 15.0E

*Based on April 04 ESA Report

**Based on May 04 Construction Report



AGENDA ITEM VI

Northern Region Office

DATE: August 10, 2004

FILE: 3110.102/3110.800

TO: MEMBER, ADVISORY COMMITTEE
CENTRAL REGIONAL WASTEWATER SYSTEM

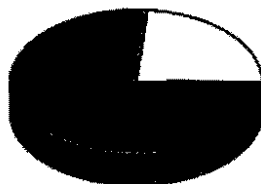
RE: Central Regional Wastewater System
Proposed FY 2005 Budget

Authority management annually prepares a proposed budget of anticipated expenses and required revenues for the Central Regional Wastewater System in accordance with the fiscal provisions of our Wastewater Services Contract for the ensuing fiscal year. We are pleased to present to you the proposed FY 2005 Budget for the annual operating funds of the Central System. This budget is relevant to the time period for December 1, 2004 through November 30, 2005.

This budget reflects the proposed financial activities of operating and debt service funds, provides for our continuing ability to deliver high quality, efficient wastewater service to our Contracting Parties, and will continue to position the Central System for increased growth, regulatory changes and maximized internal operational productivity measures to result in cost efficient wastewater treatment. The Authority will continue the efforts established in 2002 to ensure the security and integrity of our Central System and the reliability of our services. Therefore, the budget reflects the Authority's continued commitment to protect capital investments, keep operational expenses to a minimum and to maximize the process of increasing operational efficiency throughout the Authority. A brief overview of Central's financial picture for FY 2005 will reveal a slight increase in overall System expenditures, with only those increases in operating accounts required to meet contractual obligations for our treatment of wastewater, as compared to FY 2004 projected requirements. The operation and maintenance expenditures were developed based on transporting and treating an average daily flow of 151.247 MGD. The scheduled debt service requirements are slightly higher than the current budget, which reflects savings due to the issuance of the Series 1993 Refunding Bonds, and are based on principal and interest payments due on outstanding Central Regional Wastewater System Revenue Bonds.

The anticipated expenditures in FY 2005 total \$58,421,590, an approximate 1.0% increase above the \$57,839,230 predicted for the current fiscal year. The projected costs for salaries and related benefits, dues, maintenance and operating supplies, laboratory supplies, process chemicals, fuel, audit, Authority's computer network, process SCADA and maintenance management support services, professional services, postage, Project insurance payments, utilities, collection system, equipment, plant/building and electrical maintenance, off-site

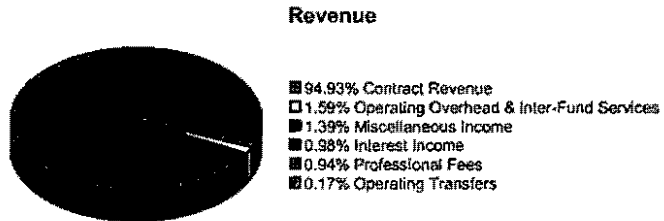
Expenses



- 54.17% Debt Service and Miscellaneous
- 23.17% Other Services and Charges
- 15.59% Personal Services
- 5.67% Supplies
- 1.40% Capital Outlays

biosolids disposal, administrative overhead and capital outlay expenses essential to delivering services during the year have increased \$1,264,110, along with an increase of \$52,200 over the current fiscal year in programmed debt services. The increases in the proposed FY 2005 Budget for operating accounts is partly offset by a \$733,950 reduction in service cost for power usage expenses due to a new energy contract which provides the Authority a lower price per kWh, as well as in other operating category accounts due to program modifications and, as in previous year's efforts, by holding the line on controllable costs. During this ongoing weak economic climate, Authority management continues our commitment of aggressive decisions to improve the effectiveness and efficiency of our business services and move toward deeper cost reductions, as close scrutiny was given to all anticipated and discretionary expenditures, resulting in an overall projected increase of \$582,360 for FY 2005 expenditures above the FY 2004 Budget. As is shown in the following table, the predicted gross and net unit costs/1,000 gallons are slightly higher than last year's projections for the coming FY 2005.

Anticipated FY 2005 revenues from the System's Contracting Parties, totaling \$55,735,040, reflects less than a one percent increase above the FY 2004 projected revenue requirement of \$55,193,770. System revenue requirements are allocated to the cities on the basis of city predicted flow contribution. The predicted FY 2005 flow contribution of 151.247 is 2.761 MGD, or 1.79%, less than we forecast for FY 2005 one year ago. The resulting predicted gross and net unit costs of service for wastewater transportation and treatment throughout FY 2005 are both 1.3% over the respective predicted FY 2004 budgeted unit costs as reflected in the following table:



Unit	Cost/1000 gallons		
	Predicted FY 2005	Budgeted FY 2004	Last Year's Projections For FY 2005
Gross (based on total cost)	1.059	1.045	1.051
Net (cost to Contracting Parties)	1.010	0.997	0.998

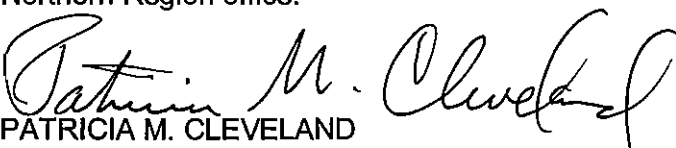
August 10, 2004
3110.102/3110.800
MEMBER, ADVISORY COMMITTEE
Page 3

The following exhibits are presented to provide flow allocations, a summary of budget objectives and detailed information about the five major budget categories, as well as additional quantitative and statistical information for your review:

Exhibit A	-	Flow Allocations
Exhibit B	-	Budget Objectives
Exhibit C	-	Budget at a Glance
Exhibit D	-	Personal Services
Exhibit E	-	Supplies
Exhibit F	-	Other Services and Charges
Exhibit G	-	Capital Outlays
Exhibit H	-	Debt Service and Miscellaneous
Exhibit I	-	Historical System Data
Exhibit J	-	Projected Future Costs of Service

The proposed FY 2005 Budget (Exhibit K) is presented for your review and consideration and will be discussed in the August 10, 2004 Advisory Committee meeting. Additionally, a Budget Workshop will be held in the upstairs conference room of the Administrative Building at the Central Regional Wastewater System on Wednesday, September 1, 2004, beginning at 10:00 a.m. for those representatives and city staff members who do not attend the Advisory Committee meeting or desire to discuss the proposed budget in more detail. A later Advisory Committee meeting is scheduled for Tuesday, September 14th, at which time the committee will be requested to recommend the proposed FY 2005 Budget for adoption by the Authority's Board of Directors.

If there are any questions concerning the proposed budget or the workshop, please contact the Northern Region office.


PATRICIA M. CLEVELAND
Manager, Operations
Northern Region

PMC/rrr

Attachments

c: Danny F. Vance, General Manager
Warren N. Brewer, Regional Manager, Northern Region
Bill Tatum, Project Manager, Central Regional Wastewater System

**EXHIBIT A
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2005 FLOW ALLOCATIONS**

CITY	FY 2004	FY 2004	FY 2005	FY 2005
	FLOW (MGD)	% ALLOCATION	FLOW (MGD)	% ALLOCATION
ADDISON	2.280	1.508%	2.280	1.508%
ARLINGTON	46.370	30.666%	42.636	28.190%
BEDFORD	4.900	3.241%	4.900	3.240%
CARROLLTON	13.700	9.060%	14.100	9.322%
CEDAR HILL	0.324	0.214%	0.360	0.238%
COLLEYVILLE	2.550	1.686%	2.570	1.699%
COPPELL	4.200	2.778%	4.250	2.810%
DALLAS	8.250	1.528%	9.000	5.951%
DFW AIRPORT	2.310	5.456%	2.310	1.527%
DUNCANVILLE	0.200	0.132%	0.200	0.132%
EULESS	4.275	2.827%	4.275	2.826%
FARMERS BRANCH	6.700	4.431%	6.700	4.430%
FORT WORTH	1.580	1.045%	1.500	0.992%
GRAND PRAIRIE	15.512	10.259%	17.600	11.637%
GRAPEVINE	1.811	1.198%	1.621	1.072%
HURST	0.207	0.137%	0.215	0.142%
IRVING	26.900	17.790%	26.900	17.785%
KELLER	2.654	1.755%	2.715	1.795%
MANSFIELD	4.125	2.728%	4.275	2.826%
N RICHLAND HILLS	0.660	0.437%	0.680	0.450%
SOUTHLAKE	1.700	1.124%	2.160	1.428%
TOTAL	151.208	100.000%	151.247	100.000%

BUDGETED FY 2005 FLOWS

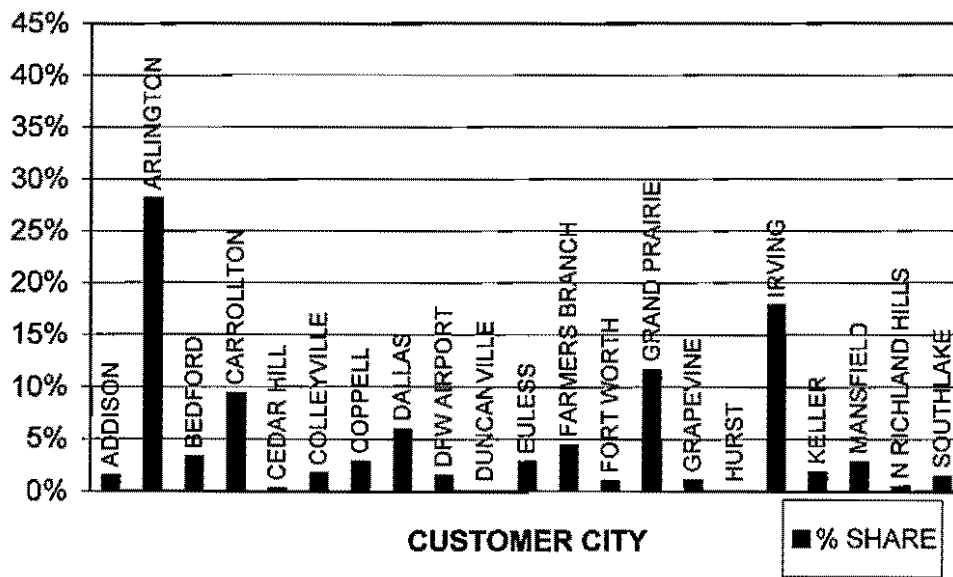


EXHIBIT B
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2005

DESCRIPTION OF THE PROJECT

The Trinity River Authority's Central Regional Wastewater System is a large regional wastewater system located on 495 acres adjacent to the West Fork of the Trinity River and is currently serving approximately 1.3 million customers in Dallas, Tarrant, Ellis, Johnson and Denton counties of north central Texas. The service area encompasses all or portions of 20 cities in the Dallas/Fort Worth metroplex, as well as the Dallas/Fort Worth International Airport. The Central Regional Wastewater System treatment plant is an advanced secondary facility currently permitted to treat 162 million gallons per day (MGD). This System consists of an extensive regional network of interceptors, pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for golf course irrigation and lake level management under the first major urban reuse program in Texas.

GOALS AND OBJECTIVES FOR FY 2005

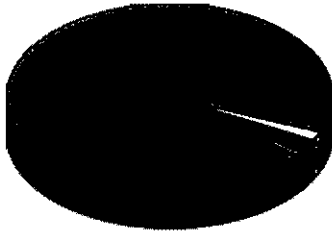
The Authority's objectives are reflected in the recommended Annual Operating Budget for Central Regional Wastewater System FY 2005. The major goals and objectives are:

- Operate and adequately protect the Central System's capital investments by proper maintenance, which includes a 162 MGD treatment plant, over 200 miles of interceptors, four lift stations, 138 metering stations, an analytical laboratory, and the DCURD water reuse project.
- Provide wastewater transportation and treatment services for a projected flow contribution of 151.247 MGD.
- Continue operating at efficient levels and minimize unit costs while enhancing treatment capacity and meeting all regulatory requirements.
- Continue Authority efforts to reduce overall wet-weather flow impacts to the System by installing new pipelines for capacity, rehabilitating existing collection system infrastructure and plant facilities as identified in the first and second phases of the 1998 Five Year Plan; funded by the Series 1998A Revenue Bonds, the third phase funded by the Series 2001 Bonds and the 2003 Refunding Bonds.
- Operate and maintain odor control facilities consistent with the Odor Control Abatement Master Plan and implement additional odor improvements in the primary treatment areas to reduce risk of adjacent area odors.
- Provide Contracting Parties laboratory testing and pretreatment program capabilities and services on a revenue-supported basis.
- Continue 100% land application of System biosolids under a five-year agreement.
- Respond in a timely fashion to Customer Cities' requests for assistance.

EXHIBIT C
FISCAL YEAR 2005 BUDGET AT A GLANCE
CENTRAL REGIONAL WASTEWATER SYSTEM
PROPOSED OPERATION AND MAINTENANCE BUDGET

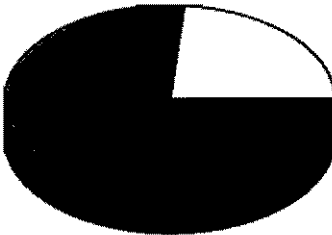
Revenue	\$58,713,230
Expenses	\$58,421,590
Variance (Retained for FY 2006 Debt Requirements)	\$291,640

Revenue



- 94.93% Contract Revenue
- 1.59% Operating Overhead & Inter-Fund Services
- 1.39% Miscellaneous Income
- 0.98% Interest Income
- 0.94% Professional Fees
- 0.17% Operating Transfers

Expenses



- 54.17% Debt Service and Miscellaneous
- 23.17% Other Services and Charges
- 15.59% Personal Services
- 5.67% Supplies
- 1.40% Capital Outlays

FISCAL YEAR 2005
FUND SUMMARY

Revenue Summary

Contract Revenue	\$55,735,040
Operating Overhead and Inter-Fund Services	\$934,150
Professional Fees	\$550,000
Interest Income	\$573,850
Operating Transfers	\$102,000
Miscellaneous Income	\$818,190
Total Sources of Funds	\$58,713,230

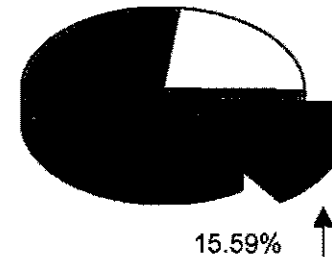
Expenditure Summary

Personal Services	\$9,104,600
Supplies	\$3,312,970
Other Services and Charges	\$13,538,260
Capital Outlays	\$817,200
Debt Service and Miscellaneous	\$31,648,560
Total Application of Funds	\$58,421,590

**EXHIBIT D
CENTRAL REGIONAL WASTEWATER SYSTEM
PERSONAL SERVICES
FY 2005**

- Proposed FY 2005 of \$9,104,600 vs Current FY 2004 of \$8,791,200 = Variance (+) \$313,400 or (+) 3.6%.
- The budget category of Personal Services includes seven line item accounts. As compared with present budget, one line item account remained unchanged (Unemployment Compensation), one decreased (-) \$2,060 (Education), and five increased (+) \$315,460 (Salaries, FICA, Health/Life Insurance, Pension, and Employee Service Recognition).
- The anticipated increase in salaries and related benefit costs is partly due to usual provisions for forecast salary adjustments based on merit, varying with each individual employee. Also, provisions are included for cost increases in the Authority's Health Insurance expenses due to claims experience that has resulted in premium increases.
- Authority management believes that the Central facility can be operated efficiently and maintain adequate margins of safety with one Project Manager, an Operations/Maintenance staff of 97, plus 53 Technical Services/Pretreatment staff, Administrative staff of 9, and 7 Purchasing/Warehouse staff.

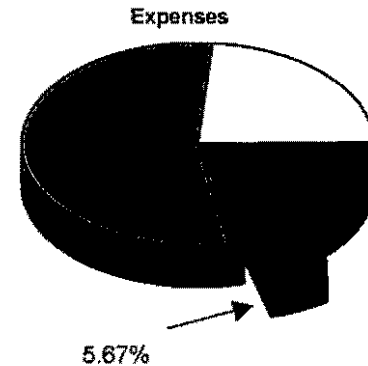
Personal Services



Personal Services expenditures include those costs associated with the staffing required to operate, maintain, and administer the treatment plant, biosolids program, laboratory, pretreatment program, collection system, and meter stations. Significant line item accounts in this category of expenditures include salaries, payroll taxes, health insurance, and pension.

**EXHIBIT E
CENTRAL REGIONAL WASTEWATER SYSTEM
SUPPLIES
FY 2005**

- Proposed FY 2005 of \$ 3,312,970 vs Current FY 2004 of \$3,173,040 = Variance (+) \$139,930 or (+) 4.4%.
- The budget category of Supplies includes eight line items accounts. As compared with the present budget, three decreased (-) \$6,260 (Office Supplies, TCEQ Certification Fees, and Computer Software Licenses) and the remaining five line items increased (+) \$146,190.
- Over 67% of the expenditures for Supplies is for the purchase of process chemicals. The increase of \$75,930 in anticipated process chemical expenditures is mainly associated with a modification in process use of iron salts, which is necessary for for odor and corrosion control.
- Included in the Computer Software, Licenses and Instrument Supplies account is the Project's third year share of an Authority-wide Enterprise Resource Planning software which merged financial, payroll, human resources, budget reporting, asset management, and purchasing into one integrated system. The cost to purchase and implement began in FY 2003 budgeting process for phasing over a three-year period (2003-2005).

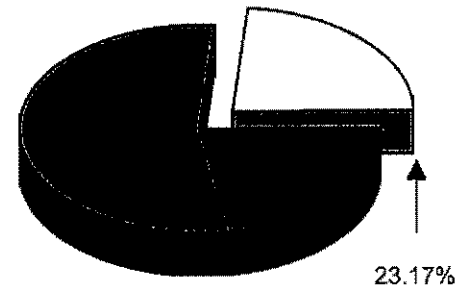


Approximately 67% of the expenditures in this category are for the purchase of process chemicals necessary for sludge thickening, dewatering and stabilization, odor control, effluent disinfection and dechlorination, and other treatment processes.

EXHIBIT F
CENTRAL REGIONAL WASTEWATER SYSTEM
OTHER SERVICES AND CHARGES
FY 2005

- Proposed FY 2005 of \$13,538,260 vs Current FY 2004 of \$13,535,730 = Variance (+) \$2,530 or + 0.02%.
- The budget category of Other Services and Charges includes 22 line item accounts. As compared with the present budget, two remained unchanged, (Legal and Training), eight line item accounts decreased (-) \$725,630 and twelve increased (+) \$728,160.
- The decreases in this category are due to reductions in engineering services, telephone, printing, employee travel, laundry and uniforms, power usage, repair and maintenance of vehicles, and equipment rental. Approximately 37% or \$4,953,740 of the expenditures in this category is for power usage. This has decreased 12.2% or (-) \$686,220 due to lower price per kWh of a new Authority-wide energy contract for the time period of June 1, 2004 through May 30, 2006.
- This category of expenditures includes increases in auditing, the Authority's computer network and computer, process SCADA, maintenance management system and Lawson support services, professional services, postage, Project insurance payments, water usage, repair and maintenance of the collection system, equipment, plant and buildings, and electrical systems, off-site biosolids land application, and administrative overhead.

Other Services and Charges

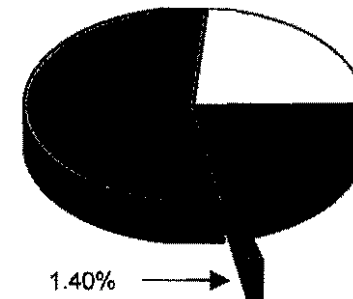


This category of expenditures relates to the indirect costs associated with the collection and treatment system, vehicles, and off-site biosolids disposal.

**EXHIBIT G
CENTRAL REGIONAL WASTEWATER SYSTEM
CAPITAL OUTLAYS
FY 2005**

- Proposed FY 2005 of \$817,200 vs. Current FY 2004 of \$742,900 = Variance (+) \$ 74,300 or (+) 10.00%.
- The Capital Outlays category can vary significantly from year to year as major equipment is only purchased on an annual as needed basis.
- This category consists of 94% or \$768,150 of capital expenditures for replacement items and 6% or \$49,050 of new capital equipment items proposed for purchase in FY 2005.
- Approximately 84% or \$642,050 of the proposed Capital Outlay items for replacement are for a grease hauling tractor, vector truck, four utility carts, a collection system 2-ton utility truck and one Pretreatment truck with camper, which all have excessive mileage and wear due to age, the replacement of corroded water chillers for the Solids Control and Administrative/Lab buildings, and twelve flow meters.
- Under the category of new proposed items, approximately 91% or \$44,450 is for the procurement of several items related to the maintenance of the Collection System.
- A list of all the projected capital expenditures is on pages 28 and 29 of the attached proposed FY 2005 Budget.

Capital Outlays

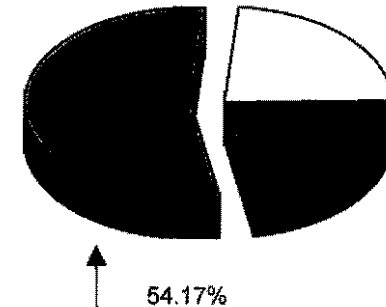


The category of Capital Outlays consists of the purchase of machinery and equipment to achieve a new purpose or replace existing equipment.

EXHIBIT H
CENTRAL REGIONAL WASTEWATER SYSTEM
DEBT SERVICES AND MISCELLANEOUS
FY 2005

- Proposed FY 2005 of \$31,648,560 vs. Current FY 2004 of \$31,596,360 = Variance (+) \$52,200 or (+) 0.17%.
- The amount budgeted for Debt Service reflects the fixed and established schedules based on outstanding debt of the Central System.
- In June 1995, the Authority issued \$43,515,000 in System Improvement Bonds to finance the design and construction of various system improvements identified in the 5 Year Plan.
- In July 1998, the Authority issued \$50,845,000 in System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects. These bonds were improvement projects. These bonds were purchased by the Texas Water Development Board.
- In September 1998, the Authority issued \$66,950,000 in System Improvement and Refunding Bonds, with \$61,375,000 being refunded, producing a savings of \$2.7 million through the life of the bond.
- In July 2001, the Authority issued \$88,225,000 in System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects. These bonds were purchased by the Texas Water Development Board.
- In January 2003, the Authority issued \$135,885,000 in Revenue Refunding Bonds to retire the Series 1993 Bonds, producing a savings of \$ 11,731,109 through the life of the bonds.

Debt Services and Miscellaneous



Debt Services and Miscellaneous includes the annual principal and interest payments due on the System bonds and the associated paying agent fees. Typically, annual principal and interest payments are structured to provide relatively level debt service requirements from year to year until such time as additional bonds are issued.

**EXHIBIT J
CENTRAL REGIONAL WASTEWATER SYSTEM
PROJECTED FUTURE COST OF SERVICE**

FISCAL YR. ENDING NOV. 30	PROJECTED FLOW (MGD)	GROSS COST PER 1,000 GAL.	NET COST PER 1,000 GAL.
2005	151.247	\$1.059	\$1.010
2006	156.81	\$1.092	\$1.037
2007	159.61	\$1.143	\$1.086
2008	162.41	\$1.120	\$1.064
2009	165.21	\$1.279	\$1.215
2010	168.00	\$1.352	\$1.284

NOTES:

(1) NET COST IS PROJECTED TO BE 95% OF GROSS COST BASED UPON HISTORICAL TRENDS FOR FY 2006 THROUGH FY 2010.

(2) UNIT COST CALCULATION FOR FY 2006 THROUGH FY 2010 INCLUDES PROJECTED ADDITIONAL DEBT TO FINANCE PLANT AND COLLECTION SYSTEM IMPROVEMENTS.

(3) FLOW PROJECTIONS FOR FY 2005 ARE BASED ON CUSTOMER CITY PROJECTIONS. FLOW PROJECTIONS FOR FY 2006 THROUGH FY 2010 ARE BASED ON THE PHASE IV /I ASSESSMENT PREPARED BY BLACK AND VEATCH.



**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
ENTERPRISE FUND**

Description of the Project

The Central Regional Wastewater System (CRWS) consists of a treatment plant and appurtenances rated at 162 Million Gallons Per Day (MGD), interceptor pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for irrigation and level control under the first major urban reuse program in Texas.

CRWS provides wastewater transportation and treatment for the Cities of Irving, Grand Prairie, Farmers Branch, Dallas, Carrollton, Coppell, Cedar Hill, Euless, Bedford, Fort Worth, Arlington, Colleyville, Dallas/Fort Worth International Airport, Grapevine, Mansfield, Hurst, North Richland Hills, Duncanville, Southlake, Keller, and Addison. The estimated average daily volume of wastewater predicted to be received from the contributing cities in Fiscal Year 2005 is 151.247 Millions of Gallons Per Day (MGD).

City	2005		2004	
	Percent Contribution	Amount MGD	Percent Contribution	Amount MGD
Addison	1.508%	2.280	1.508%	2.280
Arlington	28.190%	42.636	30.666%	46.370
Bedford	3.240%	4.900	3.241%	4.900
Carrollton	9.322%	14.100	9.060%	13.700
Cedar Hill	0.238%	0.360	0.214%	0.324
Colleyville	1.699%	2.570	1.686%	2.550
Coppell	2.810%	4.250	2.778%	4.200
D/FW Airport	1.527%	2.310	1.528%	2.310
Dallas	5.951%	9.000	5.456%	8.250
Duncanville	0.132%	0.200	0.132%	0.200
Euless	2.826%	4.275	2.827%	4.275
Farmers Branch	4.430%	6.700	4.431%	6.700
Fort Worth	0.992%	1.500	1.045%	1.580
Grand Prairie	11.637%	17.600	10.259%	15.512
Grapevine	1.072%	1.621	1.198%	1.811
Hurst	0.142%	0.215	0.137%	0.207
Irving	17.785%	26.900	17.790%	26.900
Keller	1.795%	2.715	1.755%	2.654
Mansfield	2.826%	4.275	2.728%	4.125
North Richland Hills	0.450%	0.680	0.437%	0.660
Southlake	1.428%	2.160	1.124%	1.700
Totals	100.000%	151.247	100.000%	151.208

Located on 495 acres adjacent to the West Fork of the Trinity River, the CRWS Facility initiated operation in December 1959, initially serving four cities. The original plant consisted of a trickling filter process with a capacity of 30 MGD. The capacity was increased to 60 MGD in 1976 by the addition of mechanical dewatering equipment and an activated sludge process.

In 1980, a two phase expansion program was completed that increased the capacity to 100 MGD and provided tertiary treatment. Growth in the service area resulted in the expansion of the CRWS facility to a capacity of 135 MGD, with construction initiated in 1988 and completed in early 1994. Effluent discharged from CRWS consistently meets or exceeds the requirements specified in the TPDES permit issued by the Texas Commission on Environmental Quality (TCEQ). TCEQ approved an uprating of the discharge permit to an effluent level of 162 MGD with the completion of the solids dewatering project on April 1, 2001.

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
ENTERPRISE FUND**

Work Program

To maintain and operate the Central Plant on a 24-hour a day, 7-day a week basis requires a staff of three (3) department managers reporting to the Project Manager. In addition to the management staff (4), including purchasing and the inventory department, staffing is as follows:

System Operation and Maintenance	96
Administration Services	8
Technical Services	44
Northern Region Purchasing	7
Pretreatment	<u>8</u>
	163

The responsibility for selecting process parameters, actual treatment of wastewater, process and non-process equipment maintenance, maintenance, repair of electrical and electronic equipment, lift station maintenance sludge disposal and computer monitoring of plant processes lies with the Manager, System Operations, and the Operation and Maintenance Department.

The Manager, Administrative Services and staff provide support at the Central System in the areas of human resource administration, benefits, training, clerical, accounts payable, payroll, and capital asset control and data processing.

The Manager, Technical Services and staff provide analytical data for process control, influent monitoring and effluent quality reports. The Laboratory and Pretreatment Programs provide analytical and technical assistance to cities, state, and/or federal agencies and other TRA Projects on a contract basis. Engineering Services provide inspection and surveillance of the collection system and monitoring of flows from the Cities into the Central System.

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
TOTAL FUND SUMMARY

FUNDS AVAILABLE

Projected December 1, 2004 \$ 17,336,160

ESTIMATED SOURCES OF FUNDS

Contract Revenue	\$	55,735,040	
Inter-Fund Services & Charges		530,790	
Operating Overhead		403,360	
Professional Fees		550,000	
Interest Income		573,850	
Operating Transfers		102,000	
Miscellaneous Income		818,190	
		58,713,230	58,713,230

TOTAL FUNDS AVAILABLE \$ 76,049,390

ESTIMATED APPLICATION OF FUNDS

Appropriation Expenditures:

Personal Services	\$	9,104,600	
Supplies		3,312,970	
Other Services and Charges		13,538,260	
Capital Outlays		817,200	
Debt Service and Miscellaneous		31,648,560	
		58,421,590	58,421,590

TOTAL FUNDS APPLIED \$ 58,421,590

FUNDS AVAILABLE

Projected November 30, 2005 \$ 17,627,800

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
REVENUE SUMMARY**

<u>DESCRIPTION OF REVENUE</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>	<u>2003 ACTUAL</u>
<u>CONTRACT AND OPERATING OVERHEAD REVENUE</u>			
(301) Contract Revenue - Addison	\$ 840,480	\$ 832,320	\$ 821,969
(301) Contract Revenue - Arlington	15,711,720	16,925,720	15,783,236
(301) Contract Revenue - Bedford	1,805,820	1,788,830	1,776,970
(301) Contract Revenue - Carrollton	5,195,620	5,000,580	5,241,583
(301) Contract Revenue - Cedar Hill	132,650	118,110	126,054
(301) Contract Revenue - Colleyville	946,940	930,570	944,846
(301) Contract Revenue - Coppell	1,566,160	1,533,280	1,507,925
(301) Contract Revenue - D/FW Airport	851,070	843,360	718,870
(301) Contract Revenue - Dallas	3,316,790	3,011,370	3,687,930
(301) Contract Revenue - Duncanville	73,570	72,860	69,675
(301) Contract Revenue - Euless	1,575,070	1,560,330	1,355,077
(301) Contract Revenue - Farmers Branch	2,469,060	2,445,640	2,342,176
(301) Contract Revenue - Fort Worth	552,890	576,770	392,401
(301) Contract Revenue - Grand Prairie	6,485,890	5,662,330	5,147,470
(301) Contract Revenue - Grapevine	597,480	661,220	569,992
(301) Contract Revenue - Hurst	79,140	75,610	74,439
(301) Contract Revenue - Irving	9,912,480	9,818,970	9,531,939
(301) Contract Revenue - Keller	1,000,440	968,650	859,189
(301) Contract Revenue - Mansfield	1,575,070	1,505,690	1,373,403
(301) Contract Revenue - North Richland Hills	250,810	241,200	255,752
(301) Contract Revenue - Southlake	795,900	620,380	772,812
(338) Inter-Fund Services & Charges	530,790	514,340	253,293
(339) Operating Overhead - Other Projects	403,360	435,650	486,624
TOTAL CONTRACT AND OPERATING OVERHEAD REVENUE	<u>56,669,200</u>	<u>56,143,660</u>	<u>54,093,625</u>
<u>PROFESSIONAL FEES</u>			
(398) Professional Fees	550,000	500,000	546,570
TOTAL PROFESSIONAL FEES	<u>550,000</u>	<u>500,000</u>	<u>546,570</u>
<u>INTEREST INCOME</u>			
(380) Interest Income - Interest & Sinking Fund	131,800	114,800	263,551
(380) Interest Income - Reserve Fund	377,500	439,600	464,637
(380) Interest Income - Revenue Fund	53,550	44,300	107,102
(380) Interest Income - Emergency	11,000	11,000	18,754
TOTAL INTEREST INCOME	<u>\$ 573,850</u>	<u>\$ 609,700</u>	<u>\$ 854,044</u>

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 REVENUE SUMMARY**

<u>DESCRIPTION OF REVENUE</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>	<u>2003 ACTUAL</u>
<u>OPERATING TRANSFERS</u>			
(372) Operating Transfers - Risk Retention	102,000	118,000	258,440
TOTAL OPERATING TRANSFERS	102,000	118,000	258,440
<u>MISCELLANEOUS INCOME</u>			
(340) Overstrength Surcharge	\$ 700,000	\$ 650,000	\$ 680,882
(343) Pretreatment Revenue	25,000	25,000	43,374
(344) Commodity Charge	53,770	48,800	95,671
(348) Quantity Surcharge	29,420	29,100	15,649
(399) Miscellaneous Income	10,000	10,000	47,283
TOTAL MISCELLANEOUS INCOME	818,190	762,900	882,859
GRAND TOTAL	\$ 58,713,240	\$ 58,134,260	\$ 56,635,538

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 EXPENDITURE SUMMARY

<u>DESCRIPTION OF EXPENDITURE</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>	<u>2003 ACTUAL</u>
<u>PERSONAL SERVICES</u>			
(400) Salaries - Regular	\$ 6,739,040	\$ 6,645,060	\$ 6,743,147
(402) Payroll Taxes - Fica	515,540	508,350	496,687
(403) Emp. Ben - Health/Life Ins.	1,025,480	831,930	585,003
(404) Employee Benefit - Pension	781,000	761,650	645,846
(406) Unemployment Compensation	20,000	20,000	7,366
(407) Emp. Recognition Program	20,000	18,610	16,921
(408) Employee Benefit - Education	3,540	5,600	742
TOTAL PERSONAL SERVICES	<u>9,104,600</u>	<u>8,791,200</u>	<u>8,495,712</u>
<u>SUPPLIES</u>			
(410) Office Supplies	43,630	45,900	46,700
(411) Dues and Subscriptions	61,340	54,810	81,618
(412) Fees Other Than Dues and Subscriptions	79,710	79,810	12,025
(413) Maintenance and Operating Supplies	189,800	162,750	188,797
(414) Lab Supplies	308,600	297,950	305,492
(415) Process Chemicals and Supplies	2,220,800	2,144,870	2,049,523
(416) Fuel, Oil, & Lubricants	120,350	94,320	113,581
(417) Computer Software, Lic. & Instr. Supplies	288,740	292,630	291,461
TOTAL SUPPLIES	<u>3,312,970</u>	<u>3,173,040</u>	<u>3,089,197</u>
<u>OTHER SERVICES AND CHARGES</u>			
(420) Auditing	41,000	37,500	37,500
(421) Engineering	248,010	259,500	358,420
(422) Legal	20,000	20,000	640
(423) Outside Services	683,090	577,630	486,564
(424) Other Professional Services	164,130	148,600	222,458
(430) Telephone and Telemetry	90,530	98,760	86,088
(431) Postage	9,720	8,520	9,710
(432) Printing and Binding	6,000	7,300	3,528
(433) Insurance Payments	320,460	299,960	271,187
(436) Travel	18,500	19,300	17,212
(437) Laundry, Uniform, & ind. Equip	47,910	49,070	39,844
(438) Training	55,700	55,700	33,163
(440) Utilities	120,000	110,000	119,556
(442) Power	4,953,740	5,639,960	4,274,870
(443) R & M - Collection System	654,200	388,240	630,122
(444) R & M - Equipment	179,960	168,790	221,339
(445) R & M - Plant & Buildings	792,220	691,520	758,586
(446) R & M - Vehicles	39,400	40,860	36,246
(448) R & M - Electrical	561,000	514,000	666,987
(449) Off-site Biosolid Land Application	2,585,540	2,563,870	2,385,768
(451) Rent - Machinery & Equip.	69,130	84,100	47,577
(466) Administrative Overhead	1,878,020	1,752,550	1,754,570
TOTAL OTHER SERVICES AND CHARGES	<u>13,538,260</u>	<u>13,535,730</u>	<u>12,461,935</u>

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
EXPENDITURE SUMMARY

<u>DESCRIPTION OF EXPENDITURE</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>	<u>2003 ACTUAL</u>
<u>CAPITAL OUTLAYS</u>			
(474) Improvements O/T Buildings	\$ -	\$ -	\$ 3,025
(476) Machinery & Equipment	<u>817,200</u>	<u>742,900</u>	<u>899,343</u>
TOTAL CAPITAL OUTLAYS	<u>817,200</u>	<u>742,900</u>	<u>902,368</u>
<u>DEBT SERVICE AND MISCELLANEOUS</u>			
(480) Bond Principal Payments	18,180,000	17,295,000	18,275,000
(481) Interest on Long-Term Debt	13,453,060	14,285,860	12,874,002
(483) Paying Agent Fees	5,000	5,000	1,662
(486) SEC Disclosure Fees	<u>10,500</u>	<u>10,500</u>	<u>-</u>
TOTAL DEBT SERVICE AND MISCELLANEOUS	<u>31,648,560</u>	<u>31,596,360</u>	<u>31,150,664</u>
GRAND TOTAL	<u>\$ 58,421,590</u>	<u>\$ 57,839,230</u>	<u>\$ 56,099,876</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 REVENUE WORKSHEET

<u>CONTRACT REVENUE</u>	<u>PROPOSED 2005 BUDGET</u>
Operation & Maintenance Total Expenditures	\$ 26,788,530.00
Less Other Revenue Sources:	
Inter-Fund Services & Charges	(530,790.00)
Operating Overhead	(403,360.00)
Professional Fees	(550,000.00)
Pretreatment Revenue	(25,000.00)
Commodity Charge	(53,770.00)
Operating Transfers & Misc.	(112,000.00)
Overstrength Surcharge	(700,000.00)
Zone B & Quantity Surcharge	(29,420.00)
Total Other Revenue Sources	(2,404,340.00)
Net Operation and Maintenance to be to Billed Monthly	24,384,190.00
Debt Service	
Principal on Bonds:	
Due 8/01/2005: 18,180,000.00 x 8/12	12,120,000.00
Due 8/01/2006: 19,055,000.00 x 4/12	6,351,666.67
Interest on Bonds:	
Due 2/01/2005: 6,868,538.13 x 2/6	2,289,512.71
Due 8/01/2005: 6,868,538.13 x 6/6	6,868,538.13
Due 2/01/2006: 6,442,513.13 x 4/6	4,295,008.75
Less: Interest Income	(573,850.00)
Net Debt Service to Billed Monthly	31,350,880.00
TOTAL CONTRACT REVENUE	\$ 55,735,070.00

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(301010) CONTRACT REVENUE - ADDISON</u>			
(1106.301010) Operation & Maintenance \$24,384,190 x 1.508%	\$ 367,713.59		
(1107.301010) Debt Service \$31,350,880 x 1.508%	<u>472,771.27</u>		
Total Annual Requirement		\$ 840,480	\$ 832,320
<u>(301020) CONTRACT REVENUE - ARLINGTON</u>			
(1106.301020) Operation & Maintenance \$24,384,190 x 28.190%	6,873,903.16		
(1107.301020) Debt Service \$31,350,880 x 28.190%	<u>8,837,813.07</u>		
Total Annual Requirement		15,711,720	16,925,720
<u>(301040) CONTRACT REVENUE - BEDFORD</u>			
(1106.301040) Operation & Maintenance \$24,384,190 x 3.240%	790,047.76		
(1107.301040) Debt Service \$31,350,880 x 3.240%	<u>1,015,768.51</u>		
Total Annual Requirement		1,805,820	1,788,830
<u>(301110) CONTRACT REVENUE - CARROLLTON</u>			
(1106.301110) Operation & Maintenance \$24,384,190 x 9.322%	2,273,094.19		
(1107.301110) Debt Service \$31,350,880 x 9.322%	<u>2,922,529.03</u>		
Total Annual Requirement		5,195,620	5,000,560
<u>(301120) CONTRACT REVENUE - CEDAR HILL</u>			
(1106.301120) Operation & Maintenance \$24,384,190 x 0.238%	58,034.37		
(1107.301120) Debt Service \$31,350,880 x 0.238%	<u>74,615.09</u>		
Total Annual Requirement		132,650	118,110

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(301150) CONTRACT REVENUE - COLLEYVILLE</u>			
(1106.301150) Operation & Maintenance \$24,384,190 x 1.699%	\$ 414,287.39		
(1107.301150) Debt Service \$31,350,880 x 1.699%	<u>532,651.45</u>		
Total Annual Requirement		\$ 946,940	\$ 930,570
<u>(301170) CONTRACT REVENUE - COPPELL</u>			
(1106.301170) Operation & Maintenance \$24,384,190 x 2.810%	685,195.74		
(1107.301170) Debt Service \$31,350,880 x 2.810%	880,959.73		
Rounding			
Total Annual Requirement		1,566,160	1,533,280
<u>(301200) CONTRACT REVENUE - D/FW AIRPORT</u>			
(1106.301200) Operation & Maintenance \$24,384,190 x 1.527%	372,346.58		
(1107.301200) Debt Service \$31,350,880 x 1.527%	478,727.94		
Rounding			
Total Annual Requirement		851,070	843,360
<u>(301210) CONTRACT REVENUE - DALLAS</u>			
(1106.301210) Operation & Maintenance \$24,384,190 x 5.951%	1,451,103.15		
(1107.301210) Debt Service \$31,350,880 x 5.951%	1,865,690.87		
Rounding			
Total Annual Requirement		3,316,790	3,011,370
<u>(301260) CONTRACT REVENUE - DUNCANVILLE</u>			
(1106.301260) Operation & Maintenance \$24,384,190 x 0.132%	32,187.13		
(1107.301260) Debt Service \$31,350,880 x 0.132%	41,383.16		
Rounding			
Total Annual Requirement		73,570	72,860

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(301290) CONTRACT REVENUE - EULESS</u>			
(1106.301290) Operation & Maintenance			
\$24,384,190 x 2.826%	\$ 689,097.21		
(1107.301290) Debt Service			
\$31,350,880 x 2.826%	<u>885,975.87</u>		
Total Annual Requirement		\$ 1,575,070	\$ 1,560,330
<u>(301300) CONTRACT REVENUE - FARMERS BRANCH</u>			
(1106.301300) Operation & Maintenance			
\$24,384,190 x 4.430%	1,080,219.62		
(1107.301300) Debt Service			
\$31,350,880 x 4.430%	<u>1,388,843.98</u>		
Total Annual Requirement		2,469,060	2,445,640
<u>(301330) CONTRACT REVENUE - FORT WORTH</u>			
(1106.301330) Operation & Maintenance			
\$24,384,190 x 0.992%	241,891.16		
(1107.301330) Debt Service			
\$31,350,880 x 0.992%	<u>311,000.73</u>		
Total Annual Requirement		552,890	576,770
<u>(301390) CONTRACT REVENUE - GRAND PRAIRIE</u>			
(1106.301390) Operation & Maintenance			
\$24,384,190 x 11.637%	2,837,588.19		
(1107.301390) Debt Service			
\$31,350,880 x 11.637%	<u>3,648,301.91</u>		
Total Annual Requirement		6,485,890	5,662,330
<u>(301400) CONTRACT REVENUE - GRAPEVINE</u>			
(1106.301400) Operation & Maintenance			
\$24,384,190 x 1.072%	261,398.52		
(1107.301400) Debt Service			
\$31,350,880 x 1.072%	<u>336,081.43</u>		
Total Annual Requirement		597,480	661,220

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(301450) CONTRACT REVENUE - HURST</u>			
(1106.301450) Operation & Maintenance \$24,384,190 x 0.142%	\$ 34,625.55		
(1107.301450) Debt Service \$31,350,880 x 0.142%	<u>44,518.25</u>		
Total Annual Requirement		\$ 79,140	\$ 75,610
<u>(301460) CONTRACT REVENUE - IRVING</u>			
(1106.301460) Operation & Maintenance \$24,384,190 x 17.785%	4,336,728.19		
(1107.301460) Debt Service \$31,350,880 x 17.785%	<u>5,575,754.01</u>		
Total Annual Requirement		9,912,480	9,818,970
<u>(301480) CONTRACT REVENUE - KELLER</u>			
(1106.301480) Operation & Maintenance \$24,384,190 x 1.795%	437,696.21		
(1107.301480) Debt Service \$31,350,880 x 1.795%	<u>562,748.30</u>		
Total Annual Requirement		1,000,440	968,650
<u>(301520) CONTRACT REVENUE - MANSFIELD</u>			
(1106.301520) Operation & Maintenance \$24,384,190 x 2.826%	689,097.21		
(110.301520) Debt Service \$31,350,880 x 2.826%	<u>885,975.87</u>		
Total Annual Requirement		1,575,070	1,505,680
<u>(301590) CONTRACT REVENUE - NORTH RICHLAND HILLS</u>			
(1106.301590) Operation & Maintenance \$24,384,190 x 0.450%	\$ 109,728.86		
(1107.301590) Debt Service \$31,350,880 x 0.450%	<u>141,078.96</u>		
Total Annual Requirement		250,810	241,200

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(301680) CONTRACT REVENUE - SOUTHLAKE</u>			
(1106.301680) Operation & Maintenance			
\$24,384,190 x 1.428%	\$ 348,206.23		
(1107.301680) Debt Service			
\$31,350,880 x 1.428%	<u>447,690.57</u>		
Total Annual Requirement		\$ 795,900	\$ 620,380
<u>(1106.338) INTER-FUND SERVICES & CHARGES</u>			
Clean Rivers Program (TCEQ)	60,000.00		
Ten Mile Creek	273,200.00		
Denton Creek	53,580.00		
Red Oak Creek	20,820.00		
Tarrant County	20,000.00		
Walker-Calloway Branches	18,250.00		
Mountain Creek	44,840.00		
Northeast Lakeview	5,100.00		
Joe Pool Lake	<u>35,000.00</u>		
Total Annual Requirement		530,790	514,340
<u>(1106.339) OPERATING OVERHEAD - OTHER PROJECTS</u>			
DCURD #1	335,360.00		
Ten Mile Creek	27,870.00		
Denton Creek	10,770.00		
Red Oak Creek	4,280.00		
Mountain Creek	2,190.00		
Tarrant County	<u>22,890.00</u>		
Total Annual Requirement		403,360	435,550
<u>(1106.398) PROFESSIONAL FEES</u>		550,000	500,000
<u>(1108.380) INTEREST INCOME - I & S</u>		131,800	114,800
<u>(1108.380) INTEREST INCOME - RESERVE FUND</u>		377,500	439,600
<u>(110.8.380) INTEREST INCOME - REVENUE FUND</u>		53,550	44,300
<u>(1108.380) INTEREST INCOME - EMERGENCY FUND</u>		11,000	11,000
<u>(1106.340) OVERSTRENGTH SURCHARGE</u>		700,000	650,000
<u>(1106.343) PRETREATMENT REVENUE</u>		25,000	25,000
<u>(1106.344) COMMODITY CHARGE</u>		53,770	48,800
<u>(1106.348) QUANTITY SURCHARGE</u>			
Town of Addison		29,420	29,100

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.373) OPERATING TRANSFERS - RISK RETENTION</u>		\$ 102,000	\$ 118,000
<u>(1106.399) MISCELLANEOUS INCOME</u>		10,000	10,000

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Salaries Under the Salary Administration Plan for the Following:		
Manager, Central Regional Wastewater System	1	
Maintenance Engineer	1	
Sub-Total	2	
Manager, System Operation	1	
Operations Division Chief	2	
Chief Operator	8	
Senior Operator	8	
Operator II	17	
Operator I	6	
Maintenance Division Chief	1	
Chief Maintenance Mechanic	6	
Senior Maintenance Mechanic	14	
Maintenance Mechanic II	14	
Maintenance Mechanic I	5	
E/E Division Chief	1	
Chief Electrician	1	
Chief Electronic Technician	1	
Senior Electrician	2	
Senior Electronic Technician	4	
Electronic Technician II	-	
Electrician II	2	
Senior HVAC Technician	1	
Process Systems Automation Engineer	1	
Sub-Total	95	
System Operations - Part-Time Employees		
Senior Maintenance Mechanic	1	
Sub-Total	1	

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Manager, Technical Services	1	
Laboratory Division Chief	1	
Laboratory Supervisor	3	
Quality Assurance Coordinator	1	
Senior Biologist	2	
Senior Chemist	6	
Biologist	8	
Chemist	2	
Laboratory Technician II	-	
Laboratory Technician I	1	
Technical Services Engineer	1	
Environmental Services Coordinator	1	
Interceptor System Specialist	2	
Maintenance Division Chief	1	
Chief Maintenance Mechanic	1	
Senior Maintenance Mechanic	1	
Maintenance Mechanic II	5	
Maintenance Mechanic I	1	
Chief Electronic Technician (Instrument Technician)	1	
Senior Electronic Technician (Instrument Technician)	1	
Electronic Technician II (Instrument Technician)	2	
Electronic Technician I (Instrument Technician)	1	
Senior Secretary	1	
Field Technician II	1	
Sub-Total	45	
Manager, Administrative Services	1	
Office Coordinator	1	
Senior Secretary	5	
Accounting Clerk	1	
Training Coordinator	1	
Sub-Total	9	
Purchasing/Warehouse		
Purchase/Warehouse Supervisor	1	
Buyer	2	
Assistant Buyer	1	
Senior Storekeeper	2	
Senior Secretary	1	
Sub-Total	7	
Total Project Positions W/O Pretreatment	159	

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2005
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Total Project Base Salaries w/Shift Diff	\$ 6,181,535	
Total Project Holiday and Overtime Pay	223,170	
Rounding	5	
Total Project Salaries		\$ 6,404,710
Pretreatment		
Pretreatment Coordinator	1	
Senior Secretary	1	
Environmental Inspector	3	
Senior Field Technician	2	
Field Technician II	1	
Total Pretreatment Positions	8	
Total Pretreatment Base Salaries w/Shift Diff	326,811	
Total Pretreatment Holiday and Overtime Pay	7,514	
Rounding	5	
Total Pretreatment Salaries		334,330
Total Positions - Regular Employees	166	
Total Positions - Part-Time Employees	1	
Total All Positions	167	
Total Salaries		\$ <u>6,739,040</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.400) SALARIES - REGULAR</u>			
(001.01) PROJECT			
157 Employees	\$ 6,404,710.00		
(001.02) PRETREATMENT			
8 Employees	<u>334,330.00</u>		
Total Salaries - Regular		\$ 6,739,040	\$ 6,645,060
<u>(1106.402) PAYROLL TAXES - FICA</u>			
(001.01) PROJECT			
\$ 6,404,710.00 x 7.65%	=	489,960.00	
(001.02) PRETREATMENT			
\$ 334,330.00 x 7.65%	=	25,580.00	
Rounding			
Total Payroll Taxes - Fica		515,540	508,350
<u>(1106.403) EMPLOYEE BENEFIT - HEALTH/LIFE INSURANCE</u>			
PROJECT			
(001.01) Health			
\$ 349.53 X 115 X 12		482,351.14	
\$ 550.97 X 13 X 12		85,951.32	
\$ 478.17 X 11 X 12		63,118.44	
\$ 623.73 X 14 X 12		104,786.64	
Provision for increase 25%		184,051.89	
(002.01) Life Insurance/AD&D:			
Provision for increase 25%		28,821.00	
(003.01) Long Term Disability:			
Provision for increase 25%		7,205.25	
(004.01) Employee Assistance Program:			
		16,358.02	
		4,089.51	
		4,770.00	
PRETREATMENT			
(001.02) Health			
\$ 349.53 X 6 X 12		25,166.16	
\$ 550.97 X 0 X 12		-	
\$ 478.17 X 0 X 12		-	
\$ 623.73 X 1 X 12		7,484.76	
Provision for increase 25%		8,162.73	
(002.02) Life Insurance:			
Provision for increase 25%		1,504.00	
(003.02) Long Term Disability:			
Provision for increase 25%		376.00	
(004.02) Employee Assistance Program:			
		835.82	
		208.96	
		<u>240.00</u>	
Total Emp. Ben. - Health/Life Insurance		1,025,480	831,930

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.404) EMPLOYEE BENEFIT - PENSION</u>			
(001.01) PROJECT	\$ 741,780.00		
(001.02) PRETREATMENT	<u>39,220.00</u>		
Total Emp. Ben. - Pension		\$ 781,000	\$ 761,650
<u>(1106.406) UNEMPLOYMENT COMPENSATION</u>			
(001.01) PROJECT	19,300.00		
(001.02) PRETREATMENT	<u>700.00</u>		
Total Unemployment Compensation		20,000	20,000
<u>(1106.407) EMPLOYEE RECOGNITION PROGRAM</u>			
(001.01) PROJECT			
Service Awards	\$ 20,000.00		
(001.02) PRETREATMENT	<u>-</u>		
Total Employee Recognition Program		20,000	18,610
<u>(1106.408) EMPLOYEE BENEFIT - EDUCATION</u>			
(001.01) PROJECT	3,600.00		
(001.02) PRETREATMENT	<u>500.00</u>		
Total Employee Benefit - Education		3,540	5,600
Total Personal Services		9,104,600	8,791,200
<u>(1106.410) OFFICE SUPPLIES</u>			
PROJECT			
(001.01) Consumables	16,200.00		
(002.01) Non-Consumables	7,880.00		
(003.01) Computer/Copier Supplies	9,750.00		
(005.01) Vending and Lunchroom Supplies	7,850.00		
PRETREATMENT			
(001.02) Consumables	300.00		
(002.02) Non-Consumables	500.00		
(003.02) Computer/Copier Supplies	1,000.00		
(005.02) Vending and Lunchroom Supplies	<u>150.00</u>		
Total Office Supplies		43,630	45,900
<u>(1106.411) DUES & SUBSCRIPTIONS</u>			
PROJECT			
(001.01) Professional/Technical Memberships			
AMSA	17,960.00		
Tx Prof Engineer	460.00		
ASTD/ISA	300.00		
American Society for Human Resources	160.00		
Notary	213.00		
Chlorine Institute	710.00		
Natl Assoc of Purchasing Managers	500.00		
Nat Safety Council/TX Safety Association	460.00		
TX Water Utilities Association	642.00		
WEF/WEAT	1,400.00		
WERF	35,315.00		
(002.01) Periodicals/Magazines/Newspapers	600.00		
(003.01) Reference Books	1,600.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.411) DUES & SUBSCRIPTIONS (Continued)</u>			
PRETREATMENT			
(001.02) Professional/Technical Memberships			
TWUA	\$ 220.00		
(003.02) Reference Books	800.00		
Total Dues and Subscriptions		\$ 61,340	\$ 54,810
<u>(1106.412) FEES OTHER THAN DUES & SUBSCRIPTIONS</u>			
PROJECT:			
(001.01) Certification Fees	3,050.00		
(002.01) TCEQ WW Inspect & WQA Fees	75,000.00		
(005.01) TCEQ Sludge Fee	250.00		
(006.01) Tier Two Fees	10.00		
(008.01) City/County Fees	1,000.00		
PRETREATMENT			
(001.01) Certification Fees	400.00		
Total Fees Other Than Dues & Subscriptions		79,710	79,810
<u>(1106.413) MAINTENANCE AND OPERATING SUPPLIES</u>			
PROJECT			
(001.01) Repair/Replacement of Hand Tools	25,320.00		
(002.01) Operational Supplies	11,000.00		
(003.01) Maintenance Supplies	46,000.00		
(004.01) Ground Care Supplies	9,000.00		
(005.01) Janitorial and Cleaning Supplies	15,000.00		
(006.01) Electrical Supplies	12,000.00		
(007.01) Facilities Supplies	12,000.00		
(008.01) Protective/Safety Equipment	58,750.00		
PRETREATMENT			
(001.02) Repair/Replacement of Hand Tools	280.00		
(005.02) Janitorial and Cleaning Supplies	200.00		
(008.02) Protective/Safety Equipment	250.00		
Total Maintenance and Operating Supplies		189,800	162,750
<u>(1106.414) LAB SUPPLIES</u>			
PROJECT			
(001) Gases	8,000.00		
(002) Water System	4,000.00		
(003) Bacti-Filters, Media and Supplies	78,000.00		
(004) AA, ICP, and IR Supplies	12,000.00		
(005) Gas Chromatog Supplies	10,000.00		
(006) TOC and MCTS-10 Supplies	3,000.00		
(007) Lab Apparatus	30,500.00		
(008) Chemical Reagents	63,500.00		
(009) Glassware, Plastics, and Disposables	60,000.00		
(010) Filters, Glass Fiber, Prefilters and Membrai	15,500.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.414) LAB SUPPLIES (Continued)</u>			
(011) Field Sampling Supplies	\$ 1,000.00		
(012) Operational Supplies	6,000.00		
(013) Nuclear Sources - Wipe Test & Refoil	300.00		
(014) Other - Freight and Shipping	1,150.00		
PRETREATMENT			
(007) Lab Apparatus	850.00		
(008) Chemical Reagents and Standards	500.00		
(009) Glassware, Plastics, and Disposables	3,000.00		
(011) Field Sampling Supplies	11,000.00		
(014) Other - Freight and Shipping	<u>300.00</u>		
Total Lab Supplies		\$ 308,600	\$ 297,950
<u>(1106.415) PROCESS CHEMICALS AND SUPPLIES</u>			
PROJECT			
(001) Lime	950,600.00		
(002) Ferric Chloride	206,850.00		
(003) Chlorine	293,700.00		
(004) Polymer	258,000.00		
(005) Hydrochloric Acid	5,000.00		
(006) Sodium Hydroxide	10,000.00		
(007) Citric Acid	500.00		
(008) Filter Cloths	85,000.00		
(009) Tie Wraps, Bags, Sludge Judges, Etc.	7,000.00		
(010) Taste/Odor Control	250,000.00		
(011) Boiler Chemicals	2,000.00		
(012) Sulfur Dioxide	<u>152,150.00</u>		
Total Process Chemicals and Supplies		2,220,800	2,144,870
<u>(1106.416) FUEL, OIL, AND LUBRICANTS</u>			
PROJECT			
(001) Gasoline	44,730.00		
(002) Diesel Fuel	37,640.00		
(003) Solvents/Cleaners	10,000.00		
(004) Anti-Freeze	500.00		
(005) Grease	5,000.00		
(006) Lubricants	18,000.00		
(007) Propane	800.00		
PRETREATMENT			
(001) Gasoline	3,390.00		
(004) Anti-Freeze	40.00		
(005) Grease	50.00		
(006) Lubricants	<u>200.00</u>		
rounding			
Total Fuel, Oil, and Lubricants		120,350	94,320

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.417) COMPUTER SOFTWARE, LICENSES & INSTRUMENT SUPPLIES</u>			
PROJECT			
(001) Metering Supplies	\$ 10,000.00		
(002) Instrument Repair	14,000.00		
(003) Drafting/Engineering Supplies	2,500.00		
(004) Line Surveillance	6,000.00		
(005) FM Telemetry	1,000.00		
(006) Metering Electrical Repairs	8,000.00		
(007) Lawson G/L, HR & PR Software	246,785.00		
PRETREATMENT			
(001) Metering Supplies	150.00		
(002) Instrument Repair	300.00		
round	5.00		
Total Computer and Instrument Supplies		\$ 288,740	\$ 292,630
Total Supplies		3,312,970	3,173,040
<u>(1106.420) AUDITING</u>			
(001) Audit		41,000	37,500
<u>(1106.421) ENGINEERING</u>			
(001) Engineering Studies	112,000.00		
(002) I/I Prorations	100,000.00		
(003) Triennial Report/Annual Update	16,010.00		
(004) Pipeline Repairs/Erosion Control	20,000.00		
Total Engineering		248,010	259,500
<u>(1106.422) LEGAL</u>			
(001) Legal		20,000	20,000
<u>(1106.423) OUTSIDE SERVICES</u>			
PROJECT			
(001) Advertising	24,500.00		
(002) Graphics, Displays, Etc.	1,000.00		
(003) Construction Services Charges	50,000.00		
(004) Security Monitoring/Support	13,180.00		
(005) Solid Waste Disposal (Odor Control)	48,740.00		
(006) Contract Labor	21,000.00		
(007) PC/Network/SCADA Support	474,770.00		
(012) Janitorial	48,000.00		
PRETREATMENT			
(001) Advertising	500.00		
(002) Graphics, Displays, Etc.	200.00		
(006) Contract Labor	1,200.00		
Total Outside Services		683,090	577,630

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.424) OTHER PROFESSIONAL SERVICES</u>			
PROJECT			
(001.01) Drug Testing	\$ 8,280.00		
(002.01) U.S.G.S. Payments	26,500.00		
(003.01) Motor Vehicle Reports	350.00		
(004.01) Outside Testing - Laboratory	105,000.00		
(006.01) NEXRAIN Studies	20,000.00		
PRETREATMENT			
(004.02) Outside Testing - Laboratory	<u>4,000.00</u>		
Total Other Professional Services		\$ 164,130	\$ 148,600
<u>(1106.430) TELEPHONE & TELEMETERING</u>			
PROJECT			
(001.01) Telephone/Telemetering	34,400.00		
(002.01) Pagers	5,670.00		
(003.01) Mobile Telephones	40,920.00		
(004.01) Internet Access	4,640.00		
PRETREATMENT			
(001.02) Telephone/Telemetering	1,000.00		
(002.02) Pagers	180.00		
(003.02) Mobile Telephones	<u>3,720.00</u>		
Total Telephone & Telemetering		90,530	98,760
<u>(1106.431) POSTAGE</u>			
PROJECT			
(001) Postage Meter	2,750.00		
(002) Stamps/Shipping	6,250.00		
PRETREATMENT			
(001) Postage Meter	500.00		
(002) Stamps/Shipping	<u>220.00</u>		
Total Postage		9,720	8,520
<u>(1106.432) PRINTING AND BINDING</u>			
PROJECT			
(001) Special Forms	2,000.00		
(002) Letterhead, Envelopes, and Stationary	1,500.00		
(003) Manuals, Handbooks, Etc.	1,500.00		
PRETREATMENT			
(001) Special Forms	750.00		
(002) Letterhead, Envelopes, and Stationary	<u>250.00</u>		
Total Printing and Binding		6,000	7,300

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.433) INSURANCE PAYMENTS</u>			
PROJECT			
(001) Workers' Compensation	\$ 169,423.00		
(002) Property/Casualty	90,330.20		
(003) General Liability	7,101.09		
(004) Public Official Liability	13,761.62		
(005) Automobile	27,151.00		
(006) Equipment Floater	11,924.35		
(007) Blanket Bond	771.70		
round	(2.96)		
Total Insurance Payments		\$ 320,460	\$ 299,960
<u>(1106.436) TRAVEL</u>			
PROJECT			
(001) CRWS Employees on Authority Business	14,760.00		
(002) Others on Authority Business	500.00		
PRETREATMENT			
(001) CRWS Employees on Authority Business	3,240.00		
Total Travel		18,500	19,300
<u>(1106.437) LAUNDRY, UNIFORM & IND. EQUIP.</u>			
PROJECT			
(001) Uniform Rental	36,190.00		
(003) Patches/Hats	1,500.00		
(004) Towels, Mops, Mats	9,400.00		
PRETREATMENT			
(001) Uniform Rental	820.00		
Total Laundry, Uniform, & Ind. Equip.		47,910	49,070
<u>(1106.438) TRAINING</u>			
PROJECT			
(001) Training			
Wastewater Certification Training	10,000.00		
Safety Training	10,000.00		
Technical Training	23,000.00		
Enhanced Skills/Supervisory Training	4,500.00		
Training Manuals/Videos	4,100.00		
Purchasing Certification Classes	1,500.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.438) TRAINING (Continued)</u>			
PRETREATMENT			
(001) Training			
Wastewater Certification Training	\$ 600.00		
Safety Training	600.00		
Technical Training	1,180.00		
Training Manuals/Videos	<u>220.00</u>		
Total Training		\$ 55,700	\$ 55,700
<u>(1106.440) UTILITIES</u>			
PROJECT			
(001) Natural Gas	45,000.00		
(002) Water	<u>75,000.00</u>		
Total Utilities		120,000	110,000
<u>(1106.442) POWER</u>			
(001) Power		4,953,740	5,639,960
<u>(1106.443) R & M - COLLECTION SYSTEM</u>			
PROJECT			
(001) Meter Station Structure Rehabilitation	21,000.00		
(002) Manhole/Junction Box Rehabilitation	15,000.00		
(003) System Repairs/Line Cleaning/TV	595,000.00		
(004) Lift Station/ROW Maintenance	23,000.00		
(005) Signs, Fencing, Docks	200.00		
Total R & M - Collection System		654,200	388,240
<u>(1106.444) R & M - EQUIPMENT</u>			
PROJECT			
(001) Shop Equipment	12,000.00		
(002) Dumpsters	1,000.00		
(003) Compressors and Generators	15,000.00		
(004) Fuel Powered and Electrical Equipment	9,000.00		
(005) Office and Video Equipment	8,000.00		
(006) Analytical Equip Repair - Non Contract	15,000.00		
(007) Service Contracts- Analytical Equipment	18,000.00		
(008) Perkins-Elmer Equipment	12,000.00		
(009) Mowers/Tractors	9,000.00		
(010) Tracked Vehicles & Heavy Equipment	37,000.00		
(011) Carts	1,500.00		
(012) Heavy Trucks	25,000.00		
(013) Trailers	5,000.00		
(014) Locomotive	1,500.00		
(015) Tire Repair	4,000.00		
(016) High Pressure Units	960.00		
(017) Forklifts	<u>6,000.00</u>		
Total R & M - Equipment		179,960	168,790

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.445) R & M - PLANT AND BUILDINGS</u>			
PROJECT			
(001) Packing and Seals	\$ 30,600.00		
(002) Road Repair Materials	30,000.00		
(003) Machine Shop Stock	11,000.00		
(004) Mechanical Plating and Coating	25,000.00		
(005) Clarifiers, Aeration, Equalization Basins	130,000.00		
(006) Specialized Balancing and Machining	5,000.00		
(007) Valves, Valve Operators, Pipe, Etc.	85,000.00		
(008) Positive Displacement Pumps/Repairs	112,200.00		
(009) Filter Press Parts	22,800.00		
(010) Pump Repair, Pump Parts, Machining	105,000.00		
(011) Conveyer System Parts	23,000.00		
(012) Industrial Air/Oil Filters	3,000.00		
(013) Power Transmission Parts/Repairs	30,000.00		
(014) Building/Structural Repair	41,100.00		
(015) Chlorination/Dechlorination	20,000.00		
(016) Railroad Repairs	21,000.00		
(017) Stormwater Regulations - Street Cleaning	11,520.00		
(018) Blower Parts/Repairs	60,000.00		
(019) Crane Inspection & Servicing	6,000.00		
(020) Anaerobic Digester Clean/Rehab	20,000.00		
Total R & M - Plant and Buildings		\$ 792,220	\$ 691,520
<u>(1106.446) R & M - VEHICLES</u>			
PROJECT			
(001) Automobiles	7,000.00		
(002) Pickup Trucks	22,800.00		
(003) Tire Repair	3,000.00		
(004) Other- Batteries, Wiper Blades, etc.	3,000.00		
PRETREATMENT			
(002) Pickup Trucks	3,000.00		
(003) Tire Repair	600.00		
Total R & M - Vehicles		39,400	40,860

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.448) R & M - ELECTRICAL</u>			
PROJECT			
(001) Components	\$ 60,000.00		
(002) Signal Cable and Wire	6,000.00		
(003) Electronic Equipment Repair	65,000.00		
(004) Repairs of Pneumatic Systems	1,000.00		
(005) FM Telemetry	2,000.00		
(006) PLC/SCADA Parts and Repair	20,000.00		
(007) Vendor Service and Repair	45,000.00		
(008) Calibration	5,000.00		
(009) Electrical Parts and Materials	150,000.00		
(010) Motor Overhaul	100,000.00		
(011) HVAC Parts and Repair	100,000.00		
(012) Elevator Repair and Service	6,000.00		
(013) Cathodic Test	<u>1,000.00</u>		
Total R & M - Electrical		\$ 561,000	\$ 514,000
<u>(1106.449) OFF-SITE BIOSOLID LAND APPLICATION</u>			
(002) Beneficial Reuse		2,585,540	2,563,870
<u>(1106.451) RENT - MACHINERY & EQUIPMENT</u>			
PROJECT			
(001) Cranes and Other Heavy Equipment	20,000.00		
(002) Compressors and Special Equipment	3,750.00		
(003) Postage Meter	2,000.00		
(004) Tool Rental	1,000.00		
(005) Copier Rental	29,830.00		
(007) Cylinder Rental	6,300.00		
(008) Other Rental	<u>6,250.00</u>		
Total Rent - Machinery & Equipment		69,130	84,100
<u>(1106.466) ADMINISTRATIVE OVERHEAD</u>			
PROJECT			
(001) Related Cost Method Allocation		1,878,020	1,752,550
Total Other Services and Charges		13,538,260	13,535,730

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
(1106.476) MACHINERY & EQUIPMENT			
(001.01)PROJECT-Replacement:			
(4) Self -Contained Breathing Apparatus	\$ 3,200.00		
(3) Chlorine Analyzers	15,000.00		
(1) Dissolved-Oxygen Meter	1,800.00		
(1) Grease Hauling Tractor	9,500.00		
(1) VacCon Truck w/Vacuum Unit	205,000.00		
(4) Off-Road Utility Carts	51,600.00		
(1) 180 Ton Chiller for Admin/Lab Building	125,000.00		
(1) Solids Control Chiller/Water Tower	100,000.00		
(1) UV Visible Light Spectrophotometer	23,000.00		
(1) Oil & Grease Extraction Unit	29,000.00		
(1) Metals Digestion Unit	21,000.00		
(1) Laboratory Glassware Washer	5,000.00		
(1) 12" Concrete Saw	1,200.00		
(1) 16" Concrete Saw	1,400.00		
(1) 2-Ton Utility Truck w/ Utility Bed	90,000.00		
(2) 3" Non-Clog Centrifugal Pumps	2,800.00		
(1) Portable Ultra Sonic Depth Flow Meter	4,850.00		
(8) Ultra Sonic Depth Flow Meters	13,600.00		
(2) Doppler Flow Meters	8,000.00		
(1) Depth/Velocity Flow Meter	7,500.00		
(13) Telog Data Recorders	<u>18,200.00</u>		
		\$ 736,650	\$ 677,300
PRETREATMENT- Replacement:			
(1) 3/4 Ton 4X4 Truck	25,000.00		
(1) Camper	2,000.00		
(1) Auto Sampler	<u>4,500.00</u>		
		31,500	25,000

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1106.478) MACHINERY & EQUIPMENT (Continued)</u>			
(002.01) PROJECT- New:			
(1) Laptop Computer	\$ 2,000.00		
(1) 36" Trencher Attachment	3,650.00		
(2) Self-Contained Breathing Apparatus	3,600.00		
(1) Small Pipeline Inspection Camera	8,000.00		
(2) PC Workstations	2,600.00		
(1) Concrete Core Drill	2,500.00		
(1) Pipe Fusion Machine	<u>26,700.00</u>		
		\$ 49,050	\$ 39,000
(002.02) PRETREATMENT- New			
		-	1,600
Total Machinery and Equipment		817,200	742,900

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2005
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2005 BUDGET</u>	<u>CURRENT 2004 BUDGET</u>
<u>(1107.480) BOND PRINCIPAL PAYMENTS</u>			
Due 8/01/2005:			
Series 1995	\$ 2,040,000.00		
Series 1998A	2,370,000.00		
Series 1998B	2,335,000.00		
Series 2001	170,000.00		
Series 2003	<u>11,265,000.00</u>		
Total Bond Principal Payments		\$ 18,180,000	\$ 17,295,000
<u>(1107.481) INTEREST ON LONG TERM-DEBT</u>			
Due 2/01/2005:			
Series 1995	167,951.25		
Series 1998A	758,006.25		
Series 1998B	1,300,403.75		
Series 2001	1,424,217.50		
Series 2003	3,217,959.38		
Due 8/01/2005:			
Series 1995	167,951.25		
Series 1998A	758,006.25		
Series 1998B	1,300,403.75		
Series 2001	1,424,217.50		
Series 2003	3,217,959.38		
Adjustment for Accrual round	(284,016.26)		
Total Bond Interest Payments		<u>13,453,060</u>	14,285,860
<u>(1106.483) PAYING AGENT FEES</u>		5,000	5,000
<u>(1106.486) SEC DISCLOSURE FEES</u>		10,500	10,500
Total Debt Service		31,648,560	31,596,360



DATE: July 30, 2004

FILE: 3110.702

TO: MEMBERS, Advisory Committee
Central Regional Wastewater System

RE: Central Regional Wastewater System
Capital Improvements Planning
Update for the Issuance of Series 2004 Bonds

The Authority plans, operates, and maintains the Central Regional Wastewater System (CRWS) in accordance with state and federal regulations. The Authority routinely reviews and updates capital improvement plans (CIP) for system-wide (plant and pipeline) facilities in order to provide wastewater services for the 21 Contracting members. The Authority has adopted a flexible five-year planning window to organize and to manage these activities. As needed, the Authority will issue revenue bonds to fund the facility improvements. The last bonds were issued in February 2001.

Between January and February 2001, the members of CRWS Customer Advisory Committee were advised of the Authority's plans for the next two-phased capital improvement program. These plans were reported in the 2001 Five-Year Plan Update and Summary of Capital Improvements document prepared by Alan Plummer Associates, Inc. (APAI).

During the January 24, 2001 CRWS Advisory Committee meeting, Authority management advised members of the various funding options and requested the endorsement of management's recommendation to apply for the Texas Water Development Board (TWDB) State Revolving Fund (SRF) loan for the upcoming Phase I capital improvements. The Advisory Committee unanimously endorsed this recommendation.

In February 2001, after further evaluation of the costs of issuing public sale revenue bonds, or issuing bonds via the TWDB SRF, Authority management recommended to the Authority's Board of Directors the approval of selecting the lower interest rate TWDB SRF loan option for funding the 2001 report's Phase 1 (2001-2003) improvements. TWDB SRF funds may be used for all project costs, except land rights acquisition. Today, all of the projects to be funded by Phase I funding (Series 2001 Bonds) have been initiated and a majority of these projects have been completed.

In March 2003, while management was again reviewing its plans for Phase II projects, the staff submitted anticipated cost information to the TWDB in order to be included in TWDB's 2004 Intended Use Plan. This is the first step in TWDB's loan qualification process in becoming eligible to receive a SRF loan. Based on an updated list of priority projects, the

MEMBERS, ADVISORY COMMITTEE

July 30, 2004

3110.702

Page 2

Authority submitted an estimated cost of \$106,475,000 to the TWDB. This estimate included engineering planning, design, construction, construction inspection, loan closing, bond issuance, and CIP program administration costs. Since that time, the Authority has continued to evaluate CRWS system-wide needs, individual project engineering and construction timing, and to prioritize a final listing of the next set of capital improvement projects. In August 2003, management reported to the CRWS Advisory Committee regarding the next CIP program.

In February 2004, the Authority's Board of Directors approved an Engineering Services Agreement between the Authority and the engineering firm of APAI for the purpose of preparing an engineering report to accompany financing documents for a next set of CIP's. This report is required to accompany either a Preliminary Official Statement (POS) or a TWDB loan application. This report is expected to be finalized by early August 2004. The report will present an updated list of capital improvements projects based on the previously listed Phase II projects contained in the 2001 Five-Year Plan Update and Summary of Capital Improvements report and additional projects that have been identified since that report was issued. In addition, APAI will incorporate other planning efforts, including the CRWS Phase IV Master Plan (2004) for plant improvements, prepared by Freese and Nichols, Inc., and the Phase IV Infiltration/Inflow Assessment (2004) for pipeline improvements, prepared by Black and Veatch Corporation. The estimated cost of these improvements, including additional costs associated with issuing bonds and managing the CIP programs, but excluding land rights, is currently estimated to be \$106 million. At this time, approximately \$10 million additional is also anticipated, for land rights acquisition costs, which are ineligible SRF fund expenses. In June 2004, the TWDB advised the TRA that an SRF bond amount of \$106,475,000 in Tier II funds would be available for TRA's use.

The 2004 Five-Year Plan Update report will include a forecast of future bond sales beyond 2004. As much as \$300 million in additional project needs have been identified and some or all of the needs will need to be funded before 2010. The improvements outlined in this report are necessary to continue to keep pace with the increasing population growth and wastewater flows that are expected to occur in the CRWS service area over the next 20 years. Population growth within the CRWS service area, as well as the inevitable need to rehabilitate older parts of the existing pipeline system and treatment plant facilities, requires that pipeline system and plant improvement projects be constructed at periodic intervals.

Funding of the next set of priority capital improvement projects for CRWS may be accomplished through a public, competitively bid bond sale, or by a bond sale using the TWDB's SRF. In order to maintain the option to sell bonds in the open market, First Southwest Company (FSW) is preparing a POS, and this information can also be used to satisfy TWDB loan application requirements for the SRF process.

The Authority has evaluated the various options available to fund the next generation of capital improvements. The Authority has concluded that the TWDB SRF loan requirements require more program costs, administrative effort, and construction cost thus producing higher projects' cost than a public, open market, bond issue, but the SRF loan option actually costs less over the long term because of the lower TWDB SRF interest rate. With the assistance of the

MEMBERS, ADVISORY COMMITTEE

July 30, 2004

3110.702

Page 3

Authority's financial advisor, FSW, financial evaluations of the funding scenarios have been analyzed. On a \$106 million dollar bond issue, the Authority has estimated that even with the additional administrative, technical, and program cost included, the lower interest rate TWDB loan still produces a total term savings in excess of \$15 million, and should be utilized.

With the endorsement of the CRWS Advisory Committee, management of the Authority will recommend to the Authority's Board of Directors that an application be submitted for a TWDB SRF loan before the August 31, 2004 deadline, in order to fund the next set of CRWS system-wide capital improvements, and issue bonds, when approved. In addition, management will recommend that the Authority prepare \$10 million of additional bonds to be sold on the open market as a public sale, for other costs which are not eligible, under TWDB rules. Subject to the approval of the SRF loan by the TWDB, the Authority will authorize the issuance of the bonds to the TWDB, with a smaller bond sale for land rights costs. If the TWDB loan is not approved, however, Authority management will subsequently recommend that the Board issue bonds in the open market as a public sale, for the entire CIP program amount.

Authority management seeks the approval of the Advisory Committee to proceed with the bond sales outlined herein.



B. RANDY BROOKS, P.E.

For
Manager, Wastewater Services Planning
Northern Region

BRB/vaw



DATE: July 28, 2004

FILE: 0202.800.100

TO: MEMBERS, Advisory Committee
Central Regional Wastewater System

RE: Central Regional Wastewater System
Electric Power Status Report

In Fiscal Year 2001, the Authority initiated procurement activities considering aggregation as well as direct procurement approaches with Retail Electric Providers (REP), in preparation for the State of Texas electric utility deregulation legislation, Senate Bill 7. Senate Bill 7 went into effect January 1, 2002. The result of these activities was the Authority entering into a Master Retail Power Sales Agreement with Dynegy Energy Marketing LP. The terms of the agreement was a flat rate price of \$41.45 per megawatt hour (MWh) and was effective January 1, 2002 through May 2003. The 17-month term included 10-months in Fiscal Year 2002 and seven months in Fiscal Year 2003.

In late March 2003, with the Board of Directors approval, Management solicited proposals from several REP's for power. The Market was not as favorable in 2003 as had been experienced in 2001. After considerable effort, Coral Power was selected because of the lowest price offered. The negotiated price of \$51.40 per MWh was 24% higher than the existing power contract, and understandably, was limited to only a 12-month contract time period. The new Master Energy Sales Agreement with Coral Power became effective June 1, 2003, and extended through May 31, 2004, with six months (June through November 2003), of the agreement being in Fiscal Year 2003 and the remaining six month (December 2003 through May 2004) in Fiscal year 2004. In the August 2003 Board of Directors meeting, the Authority's Board authorized the General Manager to solicit proposals and execute a contract for an additional term to follow the Coral term, when more favorable conditions in the natural gas and electric markets warranted. The Authority went back to the market in late September of 2003, soliciting proposals from qualified REP's which resulted in the Authority entering into a 24-month Master Sales Agreement with the lowest offer of \$44.50 per MWh with Tractebel Energy Services Inc. This Agreement began June 1, 2004 and will end May 31, 2006.

In the fall of 2001, the 77th Legislature enacted Senate Bill 5 (SB5) to assist the state in complying with the Federal Clean Air Act which contains energy efficiency measures that are designed to decrease energy consumption. The SB5 energy efficiency measures apply to local governments located in Clean Air Act non-attainment counties in Texas. Dallas, Tarrant, Denton, and Ellis Counties, all of which have areas served by the Authority, are impacted by SB5. Under SB5, local governments, which include any political subdivision other than school districts, which have electric accounts in any of the 38 designated counties, are required to report energy usage and energy conservation efforts to the State Energy Conservation Office

MEMBERS, ADVISORY COMMITTEE


July 28, 2004

0202.800.100

Page 2

(SECO). The initial reporting began in March of 2002. At this time it is not mandatory, but the goal of SB5 is to reduce consumption by 5% each year for 5 years.

Authority Management has always been pro-active in identifying cost saving measures at each respective project, including energy conservation and cost efficiencies. There are several programs planned for future implementation that will directly or indirectly result in significant energy conservation and cost reduction. In mid 2004, SECO offered, and the Authority has agreed, to a Preliminary Energy Assessment conducted by a SECO-contracted engineering firm (in our case, Carter and Burgess) at no cost to the Authority. It is management's understanding that Carter and Burgess will conduct the energy assessments for each individual Northern Region water and wastewater system, along with other selected individual Authority facilities that are located in non-attainment areas. The product of the survey will be a report which will identify projects that will pay for themselves from energy conservation in ten years or less. SECO also offers a program involving low interest rate funds for conversion of energy centers to more efficient power utilization. Management will assess the viability of such funds, and discuss their use, along with any planned facility modifications, in future Advisory Committee meetings.



JOHN S. OWENS
Manager, Support Resources
Northern Region

JSO/vaw





AGENDA ITEM X

General Office

3000.100.001

August 9, 2004

Mr. Stephen W. McCullough, City Manager
City of Irving
825 W. Irving Boulevard
Irving, Texas 75060

RE: Docket No. 2003-1530-WR; City of Irving Application to Amend CA No. 03-4799

Dear Steve:

I have reviewed Warren Brewer's letter to Dave Ryburn dated July 2, 2004, and Dave's reply to Warren dated July 12, 2004.

After Warren and I met with you and your senior staff at city hall, I was of the impression that Irving would contact TRA to discuss the potential of Irving purchasing treated wastewater from the Central Plant. Warren advised me after his meeting with Dave and Don Rauschuber that we apparently had a miscommunication concerning the nature of the meeting. Warren and I understood the meeting would concern where Irving wanted to pick up TRA Central's treated effluent and a pricing structure. Instead, Don Rauschuber had a specific and completely new draft proposal for settlement dated June 25, 2004. Warren was not authorized to explore Mr. Rauschuber's proposals, and he so advised Dave.

Dave's July 12, 2004, letter to Warren rejects Warren's July 2 letter and proposes a condensed version of Mr. Rauschuber's proposal. Since the settlement proposals are more legal than technical, I have concluded that it is appropriate that I reply to you.

Item 2 of Dave's letter indicates that Irving proposes to divert 22.9 MGD of return flow discharged at TRA Central and states that this amount is 60% of the 32.8 MGD amount sought in Irving's pending application.

My questions to you are:

- A. Does Irving agree by this proposal that it intends to recognize TRA's ownership of wastewater in its Central system prior to discharge into a watercourse?
- B. Does Irving agree by this proposal that TRA can make direct reuse of the 22.9 MGD prior to its discharge into a watercourse?

The first paragraph on page 2 of Dave's letter makes reference to return flows from TRA's Denton Creek Regional Wastewater System which also are a part of TRA's pending reuse

Letter to Mr. Steve McCullough
3000.100.001
August 9, 2004
Page 2

application. Dave's letter indicates that the return flow point into Grapevine Lake would be economically convenient to Irving's reuse of return flows.

Dallas County Park Cities MUD is protesting TRA's reuse application and apparently will contend that it is entitled to divert and use this return flow under the district's existing water right. By agreement, the Park Cities district has sustained this position with Dallas, Grapevine and TRWD. I note that the Park Cities District and Irving are represented by the same attorneys.

This paragraph of Dave's letter suggests some sort of "wheeling" concept like that used in the electric power business. What assurance, if any, do you have that Irving can remove the Park Cities District's apparent claim on TRA's Denton Creek Regional Wastewater System's return flows?

Your answers to my questions are essential to TRA's consideration of the remaining items set forth in Dave's letter. I hope that we can continue to negotiate this matter to an early resolution. In the meantime, TRA will continue its protest to Irving's application to protect the interests of all of TRA's customers in the Central Regional Wastewater System.

Sincerely yours,



DANNY F. VANCE
General Manager

DFV/cac

Letter to Mr. Steve McCullough
3000.100.001
August 9, 2004
Page 2

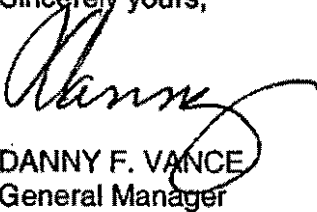
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Sincerely yours,



DANNY F. VANCE
General Manager

DFV/cac



RECEIVED

JUL 12 2004

TRA/Office of the
Northern Region

July 12, 2004

Mr. Warren N. Brewer
Regional Manager Northern Region
Trinity River Authority of Texas
5300 South Collins
P. O. Box 240
Arlington, Texas 76004-0240

RE: City of Irving Re-Use

Dear Warren:

First I want to thank you for meeting with Don Rauschuber and me on June 28, to discuss options for resolving the re-use issue. Due to the holiday, I did not receive your letter until July 6.

I have reviewed your proposal as outlined in your July 2 letter, and as the Director of Water Utilities for Irving, I cannot accept the proposal as presented and would not recommend it to management. It appears that both Irving and TRA are interested in trying to move forward to an acceptable resolution; therefore, I would like to keep before you the proposal offered by Irving. That being:

1. Irving will continue to seek from TCEQ authorization to re-use up to 60 percent of the amount of water Irving imports from Lake Chapman on a one (1) time recycle basis (i.e., $0.60 \times 38.2 \text{ mgd} = 22.9 \text{ mgd}$ as may be adjusted to reflect Irving's total quantity of Lake Chapman imported water over an accounting period and as may be adjusted for any future water authorized by TCEQ and for conveyance losses).
2. Upon discharge of Irving's treated effluent from TRA's Central Wastewater Treatment Plant, Irving will have the right to reuse water within the terms and provisions for its TCEQ permit.
3. TRA can seek TCEQ authorization for reuse of the second or supplemental reuse cycles of water derived from Irving's importation of Lake Chapman Water.
4. Irving, as part of the TRA customer group, would not receive compensation from TRA for any revenues received from the sale of water derived from second or supplemental reuse cycles.
5. Irving will prepare and maintain an accounting program that documents importation of Lake Chapman water to the Trinity River Basin and Irving's one (1) reuse of this water.

Water Utilities Department

P.O. Box 152288 • Irving, Texas 75015-2288 • 972.721.2281 • 972.721.2280 fax • www.ci.irving.tx.us

Mr. Warren N. Brewer
Regional Manager Northern Region
Trinity River Authority of Texas

July 12, 2004
Page 2

In addition to the above, Irving would be interested in pursuing the release of return flows from your northern plant on Denton Creek. The receipt of water at this location would then make it possible to establish a valve for the water that could offset or defer future cost by Irving to have the water treated and placed into our water system for use by Irving citizens.

I would hope that we can continue to negotiate this matter to a resolution; however, Irving does not want to slow the reuse permit process down.

Please contact me so we can continue toward a resolution on this matter.

Sincerely,



W. David Ryburn
Water Utilities Director

WDR/bc

PC: Steve McCullough, City Manager
Sandy Cash, Deputy City Manager
Cliff Miller, Assistant City Manager
File

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Sincerely,



W. David Ryburn
Water Utilities Director

WDR/bc

PC: Steve McCullough, City Manager
Sandy Cash, Deputy City Manager
Cliff Miller, Assistant City Manager
File



Northern Region Office

3110.650

July 2, 2004

Mr. David Ryburn
Director, Water Utilities
City of Irving
P.O. Box 152288
Irving, Texas 75015-2288

Re: Trinity River Authority
Central Regional Wastewater System
City of Irving Re-Use

Dear Dave:

Following my meeting with you and Don Rauschuber on June 28, we have given consideration to options for resolving the re-use issues. It is our suggestion that we jointly pursue an arrangement in which TRA contractually reserves a quantity of the water discharged from the Central plant for Irving's use exclusively, but not limit it, nor tie it to, the amount which you plan to import from Lake Chapman. Under that arrangement, Irving could take as much water as needed and would pay an amount for that contractual right, which would become a benefit for the members of the Central Regional Wastewater System. Under our existing contract terms, Irving would also be a benefactor, as a system member, of almost 20% of the revenue derived, as well as future revenues from other re-use sales.

We have considered various pricing methodologies and potential concepts for establishing a cost for the contractual right to take water, or a rate for water actually reserved or delivered for Irving's benefit. I believe that we can come to an agreement on a rate to Irving, which is related to your avoided cost based on all alternatives available to you. In all likelihood, the short term, least-cost option available to you is the price of raw water as established under wholesale water contracts which Irving and many other cities have with the City of Dallas. If we could agree on a method of calculating a raw water commodity charge which is tied to the City of Dallas' annually determined and announced raw water component for their wholesale water rates for customer cities, we could then select a percentage of that raw water cost component to be used to determine the commodity charge. I believe this methodology would guarantee that your raw water price would be below any alternative, and assure Irving that use of CRWS re-use water would be your least cost option for raw water.

We can work on details and terms if you wish to pursue a contractual arrangement which fits within the general parameters I have outlined. Recall that TRA's interests are tied to the interests of all 21 Contracting Parties, all of which have shared in past system revenues as a credit against the gross cost of wastewater treatment for over thirty years. Irving has shared in these type revenues, along with other parties of the system, and Irving's share of the DCURD re-use payments alone has exceeded two million dollars.

P.O. Box 240
Arlington, Texas 76004-0240
(817) 493-5100

MR. DAVID RYBURN
July 2, 2004
3110.650
Page 2

Please contact me and let's try to move this process toward a resolution.

Sincerely,

A handwritten signature in black ink, appearing to read "Warren N. Brewer", with a horizontal line extending to the right.

WARREN N. BREWER
Regional Manager
Northern Region

WNB/vaw

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations

MR. DAVID RYBURN

July 2, 2004

3110.650

Page 2

Please contact me and let's try to move this process toward a resolution.

Sincerely,



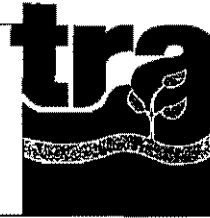
WARREN N. BREWER

Regional Manager

Northern Region

WNB/vaw

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations



Northern Region Office

September 9, 2003

3110.102

RSVP'd

MEMBERS, Advisory Committee
Central Regional Wastewater System

NOTICE – Tuesday, September 16, 2003 at 11 a.m.
MEETING PLACE – Central Regional Wastewater Treatment Plant
6500 West Singleton Blvd, Grand Prairie, Texas

A meeting of the Central Regional Wastewater System Advisory Committee has been scheduled for 11 a.m., Tuesday, September 16, 2003, at the **Central Regional Wastewater Treatment Plant in Grand Prairie, at 6500 West Singleton Blvd.** Lunch will be served immediately following the meeting. Please RSVP to Cheryl Abbott before noon on Monday, September 15, 2003, at 817-493-5100 or abbottc@trinityra.org.

We encourage each party served by the System to send a representative to this meeting, since Authority staff will be requesting the Committee's endorsement and approval of the proposed FY 2004 System Operations and Maintenance Budget. The proposed budget was presented in the August 12th Advisory Committee and a Budget Workshop was held on Thursday, August 28, 2003. We believe all questions about the budget have been answered.

Enclosed for your review are an agenda and minutes of the August 12, 2003 meeting. If you should have any questions, please contact this office at 817-493-5100.

Warren N. Brewer /cea

WARREN N. BREWER
Regional Manager
Northern Region

/cea

- c: Danny F. Vance, General Manager
- Patricia M. Cleveland, Manager, Operations
- Bill Tatum, Manager, CRWS



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

MEETING SUMMARY

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
 6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
 TUESDAY, AUGUST 12, 2003, 10:00 A.M.**

I. **Call to Order** – Chairman Gravley called the meeting to order at 10:10 a.m. and asked Warren Brewer to call roll and introduce Guest and Authority Staff.

II. **Roll Call**

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Jim Pierce f/Mr. Michael Murphy	Present
Arlington	Ms. Fiona Allen f/Mayor Bob Cluck	Present
Bedford	Mr. Jerry Sherman f/Councilmember Jim Griffin	Present
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Ms. Ruth Antebi f/Mr. Greg Porter	Present
Colleyville	Mr. Bill Lindley	Absent
Coppell	Mr. Ken Griffin	Present
Dallas	Mr. Mike Mikeska f/ Mr. Bob Johnson	Present
D/FW Airport	Mr. Jerry Dennis f/Mr. Jim Crites	Present
Duncanville	Mr. Dennis Schwartz f/Mr. Kent Cagle	Present
Eules	Mr. Ron Young	Present
Farmers Branch	Mayor ProTem Paul Walden	Present
Fort Worth	Mr. Robert McMillion f/Ms. MaeBell Brown	Present
Grand Prairie	Councilmember Richard Fregoe	Present
Grapevine	Mr. Matt Singleton f/Mr. Jerry Hodge	Present
Hurst	Mr. Ron Haynes	Present
Irving	Mayor ProTem James Dickens	Present
Keller	Mr. Rick Anderson f/Mr. Ed Ilschner	Present
Mansfield	Mr. Chris Burkett f/Councilmember Tracy Doyle	Present
North Richland Hills	Mr. David Smyth f/Mr. Mike Curtis	Present
Southlake	Mr. Pedram Farahnak	Present
Trinity River Authority	Mr. Danny F. Vance Director Hector Escamilla, Jr. Director Sylvia Greene	Present Present Present

III. **Introduction of Guests, Consultants and Authority Staff**
 TRA Staff present were Warren Brewer, Patricia Cleveland, Bill Smith, Randy Brooks, Cheryl Abbott, John Nelson, Bill Decker, John Owens, Sam Scott, John Jadrosich, Alison Mackey, Bill Tatum, Bill Cyrus, and Shelley Fialho.



Guest and Consultants:

Bedford – Tom Ross and Jim Arrington
Carrollton – Stephen Jenkins
DFW International Airport – Dan Bergman and Rick Reeter
Eules – Chris Barker
Farmers Branch – Mark Velten and Mark Pavageaux
Grand Prairie – Ron McCuller
Irving – Jim Moffatt
Mansfield – Bud Ervin
Southlake – Mike Patterson
Black and Veatch – Layne Parsons
First Southwest Company – Boyd London

IV. **Approval of Minutes of the September 10, 2002 Meeting**

Chairman Gravley asked if anyone had any changes or revisions to the minutes of the September 10, 2002 meeting, there being none, Matt Singleton made a motion to approve as presented, Richard Fregoe seconded the motion, and a unanimous vote followed.

V. **Status Reports**

- A. Operations - Bill Tatum summarized the FY 2002 year-end system parameters, and presented information for FY 2003 (December 2002 to July 2003) daily average flows, effluent quality, and odor control additions and improvements. He stated that the System had experienced two major events in the collection system that necessitated emergency expenditures.
- B. Financial – Patricia Cleveland reported that each Contracting Party had received either a check or an invoice for the FY 2002 actual flows; that 11 of the Customer Cities had been mailed a request for information on the FY 2003 inch diameter per mile (IDM); and that the FY 2003 year to date reallocation distribution had been mailed. She stated that the System was 66% into the FY 2003 Budget Year and was trending within the budget of the routine predicted O&M expenditures. Warren Brewer and Danny Vance discussed the process used by the Authority in the selection of the energy provider, Coral Power and the projected cost.
- C. Regulatory – Patricia Cleveland said that the Central System had received a draft discharge permit and staff are in the review process. She briefly informed Members on Capacity Assurance, Management, Operation and Maintenance Requirements (CMOM), National Blending Policy, Sanitary Sewer Overflow Regulations, and the Wastewater Security Act.
- D. Capital Improvement Planning
(1) Planning, Design, Construction
(2) Series 2004 SRF Bonds
Randy Brooks gave a presentation showing population comparisons between the 1992 Phase II and 2000 Phase IV studies, as well as future population projections, and explained the evaluation and planning process for the Central System improvements. Mr. Brooks then summarized the current design projects and the active construction projects, and provided handout material.

- VI. **Discussion: Presentation of Proposed FY 2004 Operating and Maintenance Budget**
- A. Budget Philosophy and Strategies
 - B. System Flows and Allocations
 - C. Budget Objectives
 - D. Detailed Budget Review

Warren Brewer said that each year the Central System Budget was developed and presented to the Contracting Parties in an August meeting, that a Budget Workshop was conducted to provide greater detail on the budget, and then Members were asked to adopt the budget at the upcoming September 16, 2003 meeting.

Patricia Cleveland then outlined TRA's philosophy, strategies, and projected flows for the FY 2004 CRWS Operating and Maintenance Budget that would be effective from December 1, 2003 until November 30, 2004.

There was a discussion concerning projected employee salaries and other employee benefits. Mr. Brewer explained that the Authority's Salary Plan ranges of pay were established based on comparisons with Customer Cities and by design, were set to fall in the mid range of salaries paid by TRA Customers.

VII. **Other Business**

Patricia Cleveland presented Bill Tatum and the Central System Employees with the American Metropolitan Sewerage Agency GOLD award for the fourth year and noted that if the System maintained its current performance level for the current year, they would receive the Platinum Award for 2003.

Warren Brewer said that a status report on the issue of reuse water within the state of Texas had been included in the packet.

VII. **Adjourn to Lunch**

There being no further business, Chairman Gravley adjourned the meeting and invited attendees to remain for a catered lunch.

CENTRAL REGIONAL WASTEWATER SYSTEM FY 2003

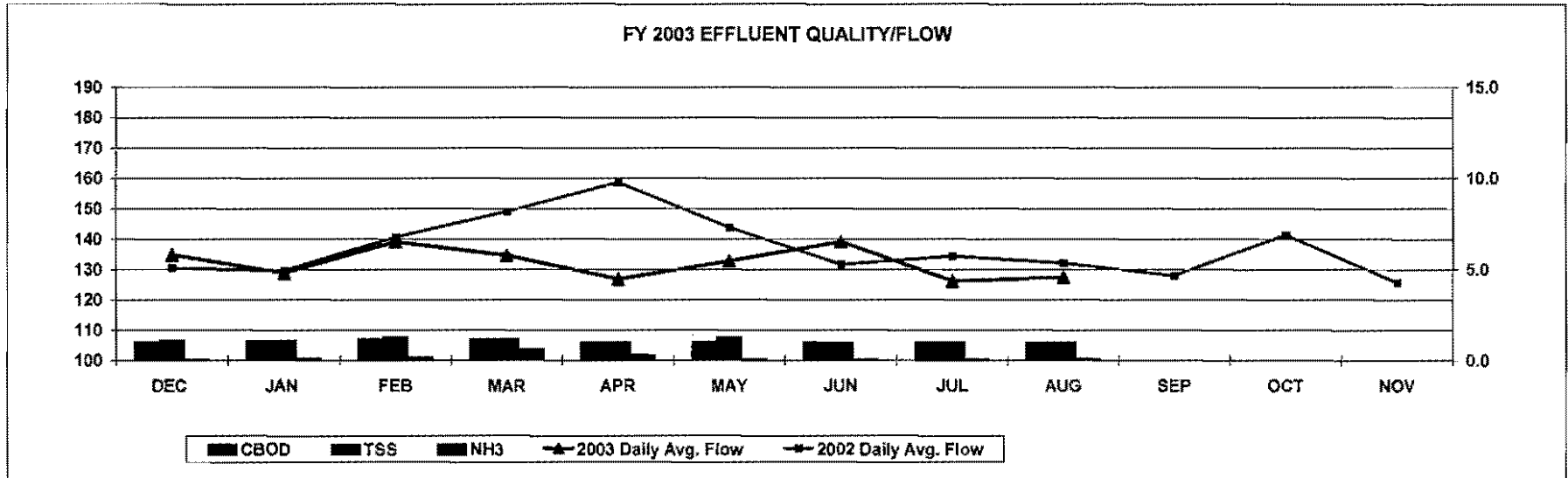
PERMITS NO: 10303-001 (TX0022802)

PERMIT LIMIT:	FLOW ANNL AVG	FLOW DLY AVG	FLOW DLY MAX	FLOW 2-HR PK	FLOW 2-HR PK	RAINFALL TOTAL**	CBOD DLY AVG	CBOD DLY MAX	CBOD DLY AVG	TSS DLY AVG	TSS DLY MAX	TSS DLY AVG	NH3 DLY AVG	NH3 DLY MAX	NH3 DLY AVG	DO MIN	pH MAX	pH MIN	CL2 MIN	CL2 OUTFALL	COLLECT. SYSTEM	
	MGD	MGD	MGD	GPM	MGD	INCHES	MG/L	MG/L	LBS/DAY	MG/L	MG/L	LBS/DAY	MG/L	MG/L	LBS/DAY	MG/L	S.U.	S.U.	MG/L	MG/L	NO. OF OUTFLOWS	
DEC	137.503	134.853	181.590	136912	197.183	4.13	1.0	2.0	1158.2	1.1	2.0	1278.3	0.065	0.169	72.7	8.5	7.3	7.0	1.10	0.00	0	
JAN	137.433	128.809	140.788	188468	159.184	8.22	1.1	2.0	1175.8	1.1	2.0	1181.5	0.133	1.053	142.8	8.9	7.4	6.9	1.01	0.00	0	
FEB	137.315	139.089	203.770	144353	207.888	5.07	1.2	2.0	1389.5	1.3	3.0	1511.4	0.194	1.378	216.5	8.8	7.3	6.9	1.02	0.00	0	
MAR	136.090	134.567	155.270	125458	190.660	0.85	1.2	2.0	1345.3	1.2	2.0	1305.5	0.641	3.639	720.3	8.5	7.3	6.8	1.12	0.00	0	
APR	133.470	126.720	141.580	108124	155.889	1.90	1.0	1.0	1056.8	1.0	2.0	1090.9	0.310	3.540	320.3	8.1	7.4	6.8	1.04	0.00	0	
MAY	132.530	132.581	174.660	137735	198.338	2.53	1.1	2.0	1176.5	1.3	2.0	1380.5	0.078	0.171	86.3	7.6	7.3	6.9	1.05	0.00	0	
JUN	131.139	138.079	198.840	151308	217.884	5.17	1.0	1.0	1159.9	1.0	1.0	1159.9	0.074	0.119	86.1	7.5	7.4	6.8	1.05	0.00	1	
JUL	132.390	128.118	136.740	105013	152.559	0.08	1.0	1.0	1051.8	1.0	1.0	1051.8	0.070	0.200	72.8	7.4	7.3	6.9	1.08	0.00	0	
AUG	131.987	127.320	168.500	130287	187.813	1.85	1.0	1.0	1051.9	1.0	1.0	1051.9	0.102	0.287	108.1	7.4	7.3	7.0	1.00	0.00	1	
SEP																						
OCT																						
NOV																						
AVG	134.661	132.135	168.626	127629	183.786	2.42	1.1	1.6	1175.1	1.1	1.8	1224.5	0.165	1.173	202.9	8.0	7.3	6.9	1.05	0.00	TOTAL 2	
MAX	137.503	139.079	203.770	151308	217.884	5.17	1.2	2.0	1389.5	1.3	3.0	1511.4	0.641	3.639	720.3	8.9	7.4	7.0	1.12	0.00		
MIN	131.987	126.118	136.740	105013	152.559	0.08	1.0	1.0	1051.8	1.0	1.0	1051.8	0.065	0.119	72.7	7.4	7.3	6.8	1.00	0.00		
TOTAL	1211.857	1189.216				21.80			10575.8			11021.8			1825.9							

90% FLOW = 145.800 MGD
75% FLOW = 121.500 MGD

* EXCURSIONS: 0 TCEQ
0 EPA

**Rainfall totals are measured at DFW Airport





**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

AGENDA
CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
TUESDAY, SEPTEMBER 16, 2003 at 11 A.M.

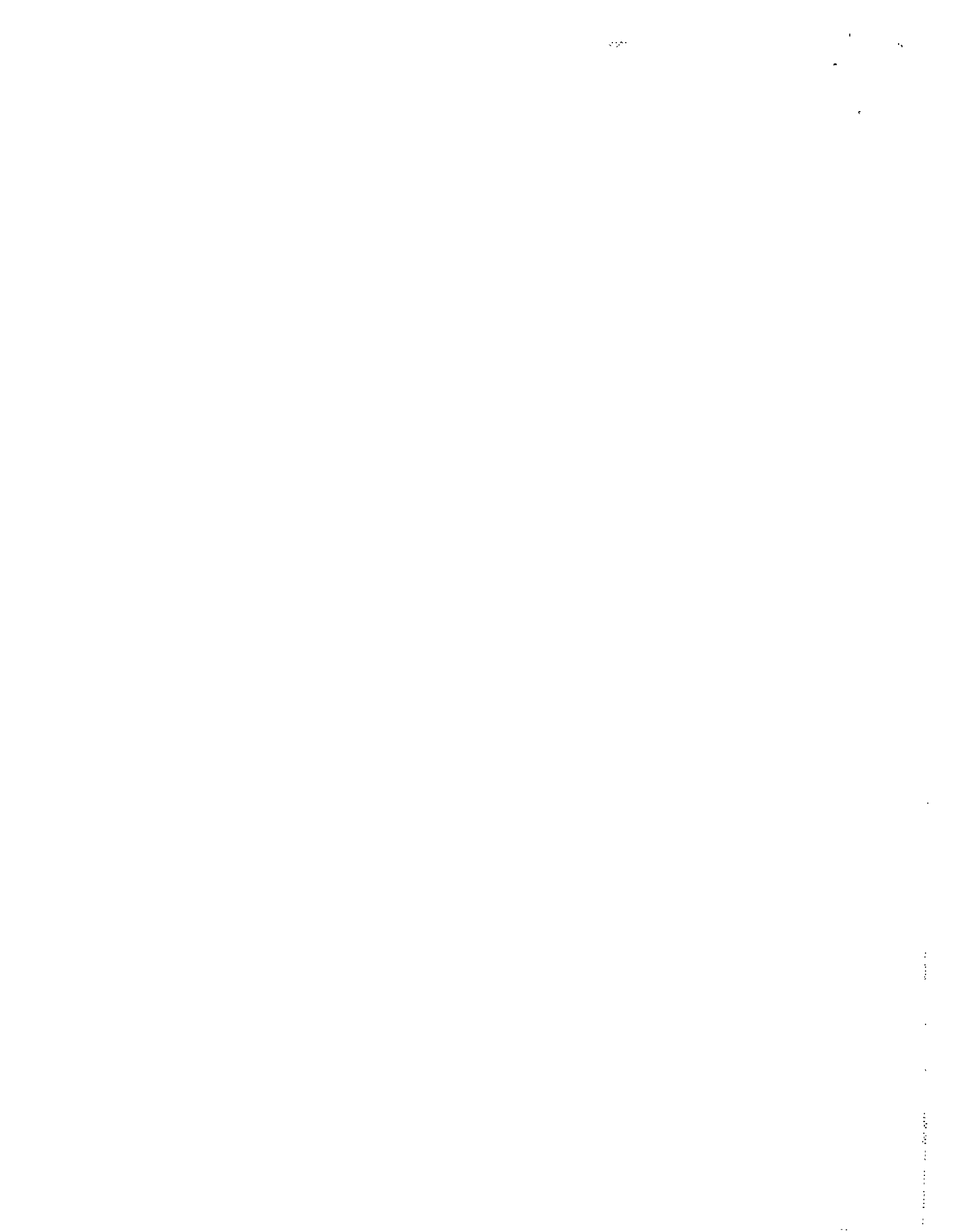
I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Bob Cluck	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Bill Lindley	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Bob Johnson	_____
D/FW Airport	Mr. Jim Crites	_____
Duncanville	Mr. Kent Cagle	_____
Eules	Mr. Ron Young	_____
Farmers Branch	Mayor ProTem Paul Walden	_____
Fort Worth	Mr. Dale Fisseler	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Mayor ProTem James Dickens	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Tracy Doyle	_____
N. Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Mr. Danny F. Vance	_____
	Director Hector Escamilla, Jr.	_____
	Director Sylvia Green	_____

III. Introduction of Guests, Consultants and Authority Staff

IV. Approval of Minutes of the August 12, 2003 Meeting



V. **Status Reports**

- A. Operations
- B. Financial
- C. Regulatory
- D. Capital Improvement Planning

VI. **Action: Proposed FY 2004 Operating and Maintenance Budget**

- A. Review of Budget Philosophy, Strategies, Objectives, and Contents
- B. Committee Action on Proposed FY 2004 Budget

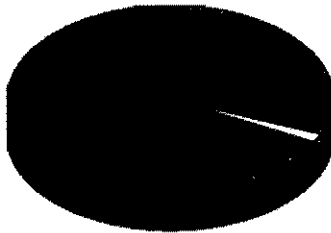
VII. **Other Business**

VIII. **Adjourn to Lunch**

EXHIBIT C
FISCAL YEAR 2004 BUDGET AT A GLANCE
CENTRAL REGIONAL WASTEWATER SYSTEM
PROPOSED OPERATION AND MAINTENANCE BUDGET

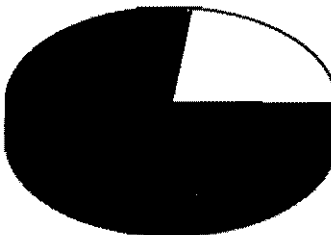
Revenue	\$58,134,240
Expenses	\$57,839,230
Variance (Retained for FY 2005 Debt Requirements)	\$295,010

Revenue



- 94.94% Contract Revenue
- 1.64% Operating Overhead & Inter-Fund Services
- 1.31% Miscellaneous Income
- 1.05% Interest Income
- 0.86% Professional Fees
- 0.20% Operating Transfers

Expenses



- 54.63% Debt Service and Miscellaneous
- 23.40% Other Services and Charges
- 15.20% Personal Services
- 5.49% Supplies
- 1.28% Capital Outlays

FISCAL YEAR 2004
FUND SUMMARY

Revenue Summary

Contract Revenue	\$55,193,770
Operating Overhead and Inter-Fund Services	\$949,890
Professional Fees	\$500,000
Interest Income	\$609,600
Operating Transfers	\$118,000
Miscellaneous Income	\$762,980

Total Sources of Funds	\$58,134,240
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Expenditure Summary

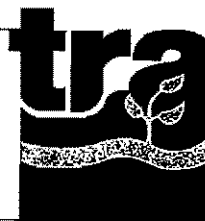
Personal Services	\$8,791,200
Supplies	\$3,173,040
Other Services and Charges	\$13,535,730
Capital Outlays	\$742,900
Debt Service and Miscellaneous	\$31,596,360

Total Application of Funds	\$57,839,230
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Trinity River Authority of Texas

JP attends this



Northern Region Office

July 29, 2003

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

NOTICE - Tuesday, August 12, 2003, 10:00 a.m.
MEETING PLACE - Central Regional Wastewater Treatment Plant
6500 West Singleton Blvd., Grand Prairie

The Central Regional Wastewater System Advisory Committee has scheduled a meeting for 10:00 a.m., Tuesday, August 12, 2003 at the **Central Regional Wastewater Treatment Plant in Grand Prairie, at 6500 West Singleton Blvd., Grand Prairie, Texas.** A catered lunch will immediately follow the meeting.

There are several significant agenda items, including the presentation and explanation of the proposed FY 2004 Operations and Maintenance Budget for the Central System. An agenda, minutes from the September 10, 2002 meeting, and other information will be mailed to you prior to the August 12th meeting.

Each party served by the System is encouraged to send a representative to this meeting. If you have questions prior to this meeting, please contact this office at 817-493-5100.

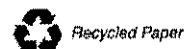
Warren N. Brewer/cea

WARREN N. BREWER
Regional Manager
Northern Region

WNB/cea

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations
Bill L. Tatum, Manager, CRWS

P.O. Box 240
Arlington, Texas 76004-0240
(817) 493-5100







**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

AGENDA
CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
TUESDAY, AUGUST 12, 2003, 10:00 A.M.

I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Bob Cluck	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Bill Lindley	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Bob Johnson	_____
D/FW Airport	Mr. Jim Crites	_____
Duncanville	Mr. Kent Cagle	_____
Eules	Mr. Ron Young	_____
Farmers Branch	Mayor ProTem Paul Walden	_____
Fort Worth	Ms. MaeBell Brown	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Mayor ProTem James Dickens	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Tracy Doyle	_____
North Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Mr. Danny F. Vance	_____
	Director Hector Escamilla, Jr.	_____
	Director Sylvia Greene	_____

III. Introduction of Guests, Consultants and Authority Staff



IV. **Approval of Minutes of the September 10, 2002 Meeting**

V. **Status Reports**

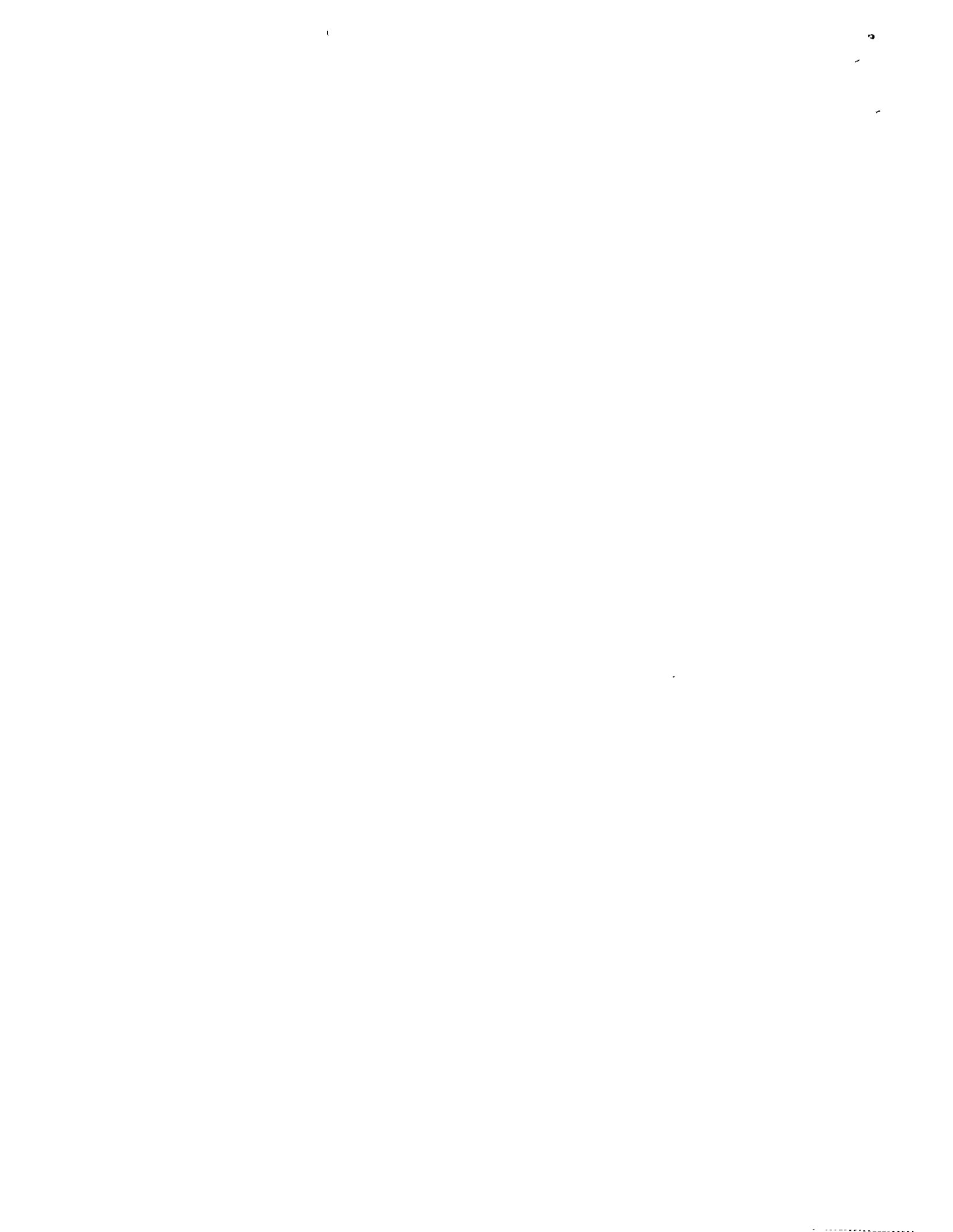
- A. Operations
- B. Financial
- C. Regulatory
- D. Capital Improvement Planning
 - (1) Planning, Design, Construction
 - (2) Series ~~2001~~ SRF Bonds
2004

VI. **Discussion: Presentation of Proposed FY 2004 Operating and Maintenance Budget**

- A. Budget Philosophy and Strategies
- B. System Flows and Allocations
- C. Budget Objectives
- D. Detailed Budget Review

VII. **Other Business**

VIII. **Adjourn to Lunch**





**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

MINUTES

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
TUESDAY, SEPTEMBER 10, 2002 at 11 A.M.**

I. **Call to Order** – Chairman Gravley called the meeting to order at 11:10 a.m. and asked Warren Brewer to call roll.

II. **Roll Call**

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Jim Pierce f/Mr. Michael Murphy	Present
Arlington	Mr. Charles Anderson f/Mayor Elzie Odom	Present
Bedford	Councilmember Jim Griffin	Absent
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Mr. Jim Sparks f/Mr. Greg Porter	Present
Colleyville	Mr. Bill Lindley	Absent
Coppell	Mr. Ken Griffin	Absent
Dallas	Mr. Terrace Stewart	Absent
D/FW Airport	Mr. Rusty Hodapp f/Mr. Jim Crites	Present
Duncanville	Mr. Bill Willborn f/Mr. Kent Cagle	Present
Eules	Councilmember Glenn Porterfield	Present
Farmers Branch	Mr. Mark Velton f/Councilmember Paul Walden	Present
Fort Worth	Mr. Frank Crumb f/Mr. Dale Fisseler	Present
Grand Prairie	Councilmember Richard Fregoe	Present
Grapevine	Mr. Matt Singleton f/Mr. Jerry Hodge	Present
Hurst	Mr. Ron Haynes	Present
Irving	Mr. Jim Sidall f/Councilmember James Dickens	Present
Keller	Mr. Ed Ilschner	Absent
Mansfield	Mr. Bud Ervin f/Councilmember Blake Evans	Present
N. Richland Hills	Mr. David Smith f/Mr. Mike Curtis	Present
Southlake	Mr. Pedram Farahnak	Absent
Trinity River Authority	Mr. Danny F. Vance Director Hector Escamilla, Jr.	Present Present

III. **Introduction of Guests, Consultants and Authority Staff**

TRA staff present: Warren Brewer, Patricia Cleveland, Bill Smith, Randy Brooks, John Nelson, Cheryl Abbott, John Jadrosich, Bill Tatum, Bill Cyrus, Mike Young, and Shelley Fialho.

Also present:

- Arlington - Fiona Allen
- Carrollton – Stephen Jenkins
- Eules – Ron Young and Chris Barker
- Farmers Branch – Mark Pavageaux
- Grand Prairie – Ron McCuller
- Midlothian – Robyn Forsyth and Judy Ford
- Alan Plummer Associates – Alan Plummer
- Black & Veatch – Layne Parsons
- First Southwest – Mary Williams



IV. **Approval of Minutes of the August 13, 2002 Meeting**

Chairman Gravley asked if there were any changes to be made to the minutes of the August 13, 2002 meeting. None being requested, Matt Singleton made a motion to accept the minutes of the August 13, 2002 meeting as presented. Councilmember Porterfield seconded the motion and a unanimous vote followed.

V. **Status Reports**

- A. Operations – Bill Tatum gave updated System flows since the August meeting and stated that the May, June, July, and August flows for 2001 and 2002 were very similar. Mr. Tatum then presented a slide presentation outlining the effluent process parameters for December 2001 through August 2002. He asked if any one had questions and there were none.
- B. Financial – Patricia Cleveland told Members that through August, the System was 75% through the current budget year and had realized savings in power, but had encountered some additional expenditures in other areas.
- C. Regulatory – Patricia Cleveland stated that the TPDES permit renewal application had been submitted to TCEQ for review and that staff was prepared to respond to any questions posed by the State. Ms. Cleveland said that the current permit had been filed for 162 MGD, and with future improvements and expansions the permit would be increased to 189 MGD. There was a brief discussion concerning CMOM's status and potential effects on the System and its Customer Cities.
- D. Capital Improvement Planning – Randy Brooks reviewed current engineering and construction projects. He reported that staff was obtaining populations projections and traffic zone areas within the Central region and would use that information in updating the 2002 CIP program.

VI. **Action: Proposed FY 2003 Operating and Maintenance Budget**

- A. Review of Budget Philosophy, Strategies, Objectives, and Contents
- B. Committee Action on Proposed FY 2003 Budget

Warren Brewer told members that staff had presented the FY 2003 Budget in the August meeting, and had also held a budget workshop that was attended by representatives from nine cities. Upon completion of Patricia Cleveland's brief overview of the FY 2003 Operating and Maintenance Budget, Charles Anderson made a motion to recommend that the Authority's Board of Director's adopt the Budget as presented. Bud Ervin seconded the motion and a unanimous vote followed.

VII. **Other Business**

Warren Brewer reintroduced Judy Ford and Robyn Forsyth with the City Midlothian. He detailed a slide presentation of the Mountain Creek Regional Wastewater Service area and explained how the service area and pipelines related to the Central System.

Mr. Brewer told Members that since Irving's presentation in the August meeting, that TRA had not received any further requests, but that in a recent conversation with Steve McCullough, he indicated it would be discussed at a later date.

Patricia Cleveland presented Bill Tatum with the AMSA Gold award for the Central System. She stated that the Central System had received Gold Awards for the prior eight years for not exceeding permits parameters and that a Platinum Award was achieved with five consecutive Gold Awards.

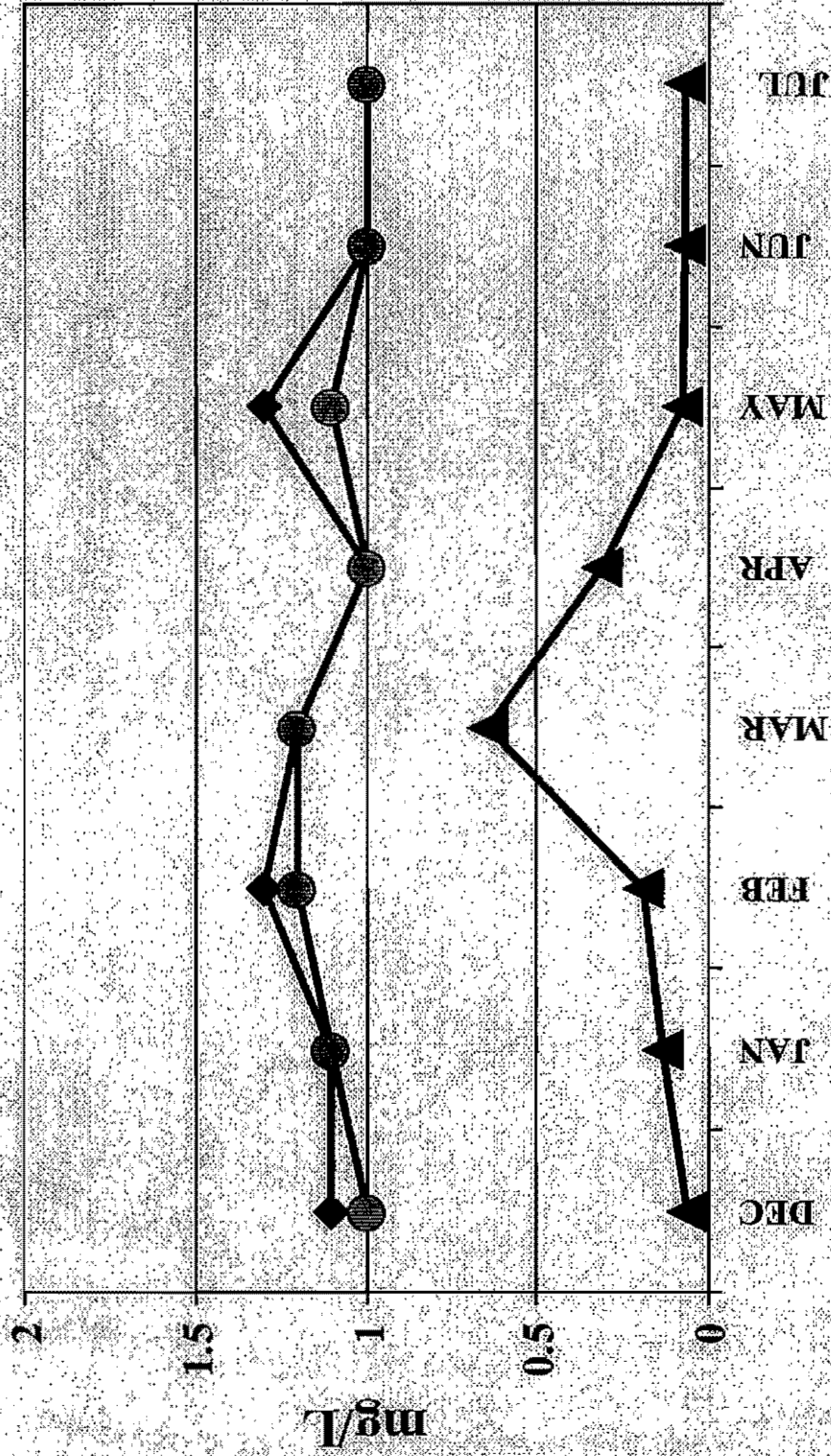
VIII. **Adjourn to Lunch**

Chairman Gravley adjourned the meeting at 11:55 a.m. and invited attendees to remain for a catered lunch.



CRWS EFFLUENT QUALITY

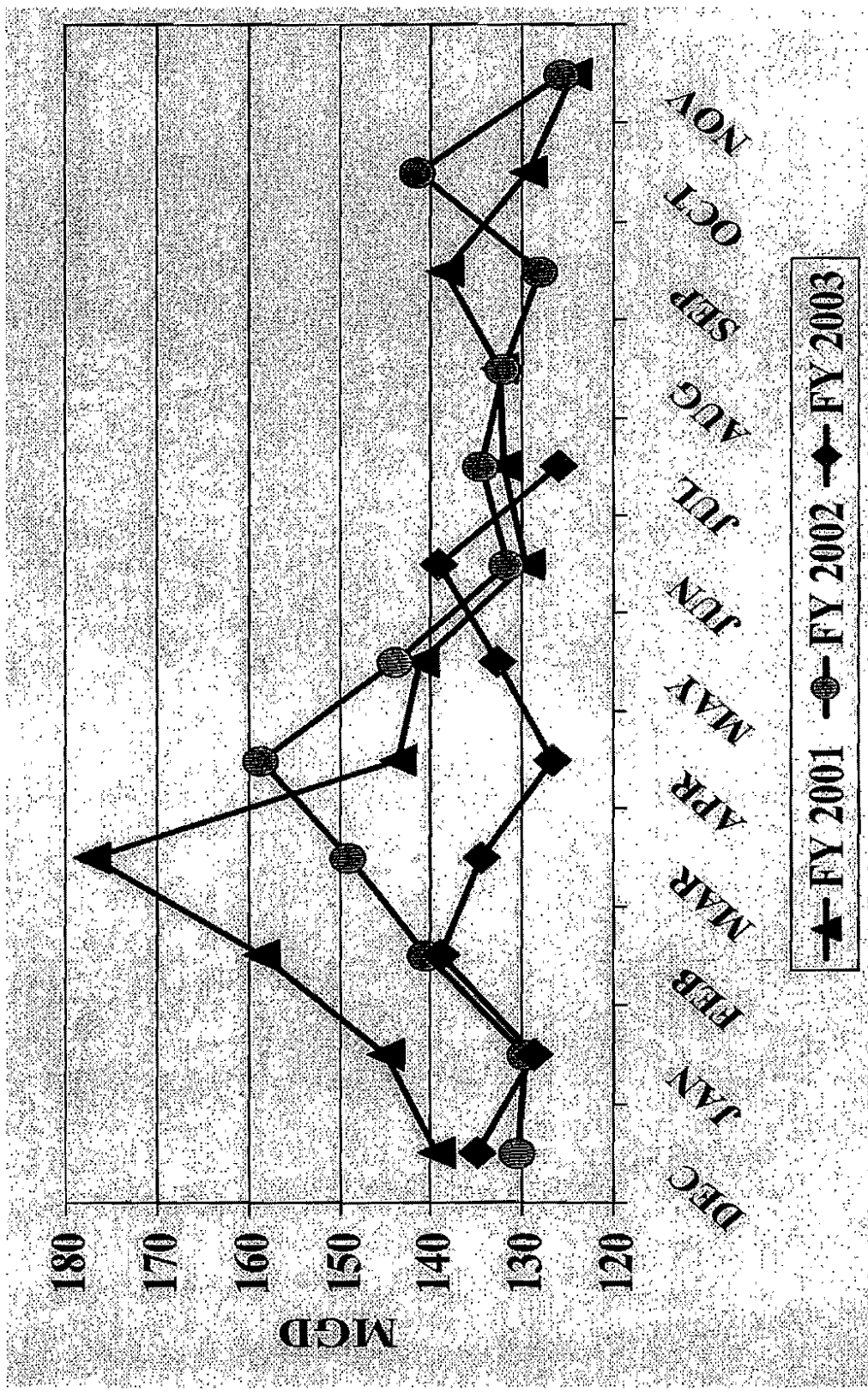
December 2002 – July 2003



Permit Limits
TSS 15 mg/L CBOD 7 mg/L NH3 2/4

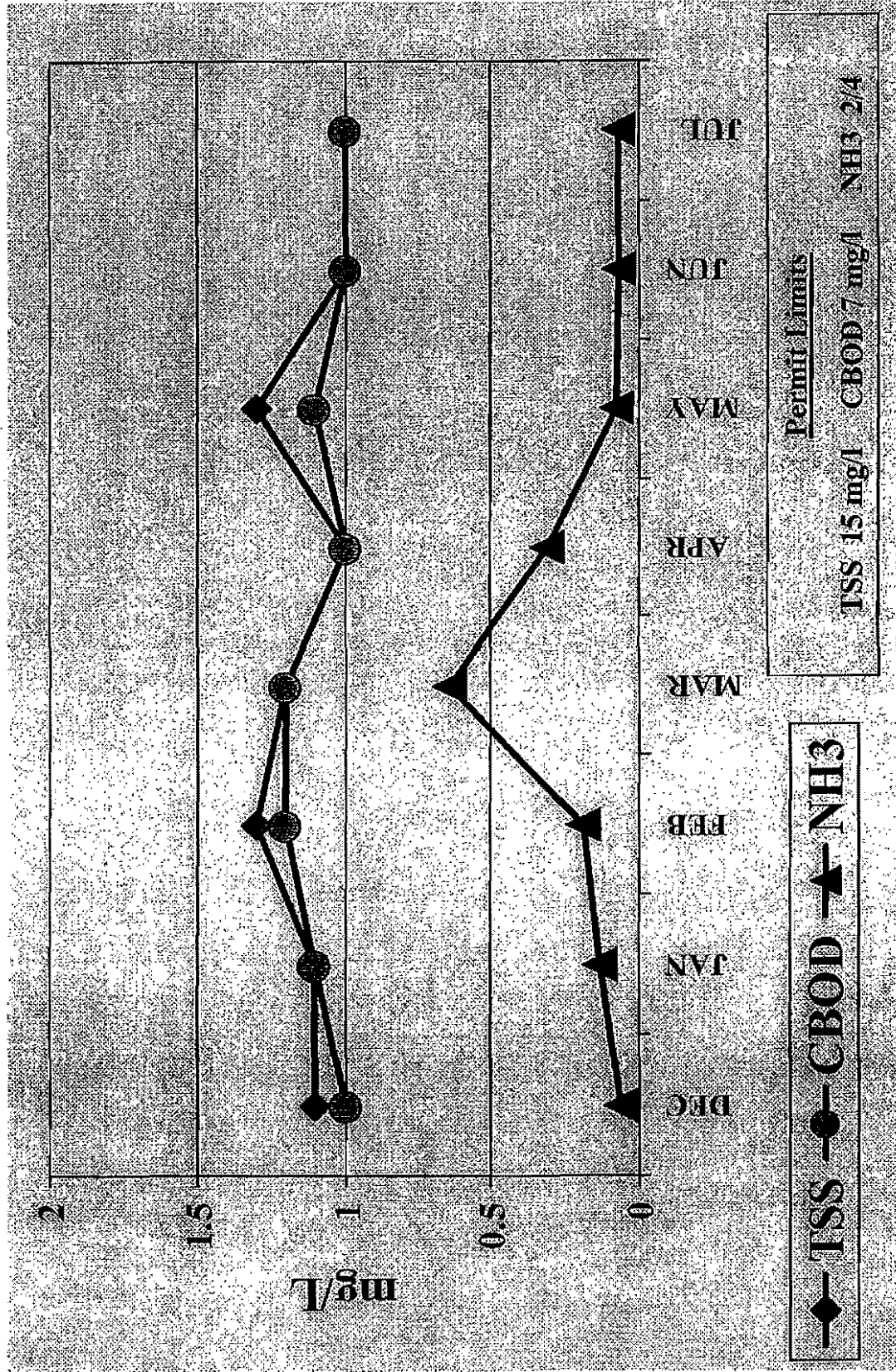
◆ TSS ● CBOD ▲ NH3

CRWS EFFLUENT DAILY AVERAGE FLOW



CRWS EFFLUENT QUALITY

December 2002 – July 2003



**CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2003**

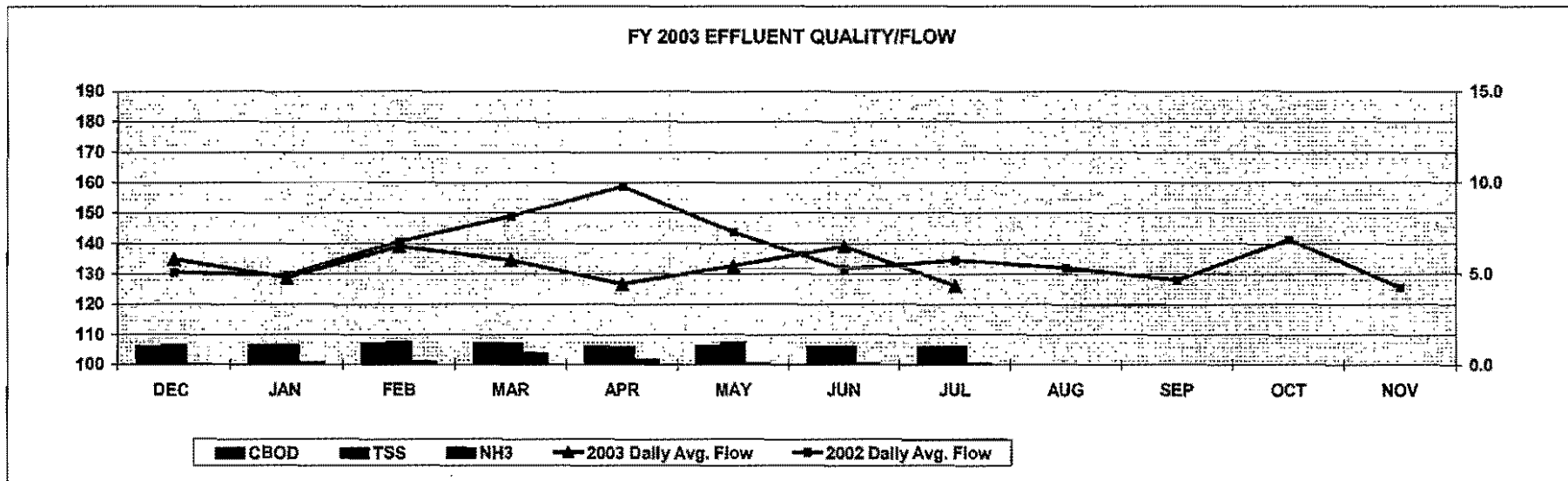
PERMITS NO: 10303-001 (TX0022802)

	FLOW ANNL.AVG	FLOW DLY.AVG.	FLOW DLY.MAX.	FLOW 2-HR PK	FLOW 2-HR PK	RAINFALL TOTAL**	CBOD DLY.AVG.	CBOD DLY.MAX.	CBOD DLY.AVG.	TSS DLY.AVG.	TSS DLY.MAX.	TSS DLY.AVG.	NH3 DLY.AVG.	NH3 DLY.MAX.	NH3 DLY.AVG.	DO MIN.	pH MAX.	pH MIN.	CL2 MIN.	CL2 OUTFALL	COLLECT. SYSTEM
PERMIT LIMIT:	162 MGD	REPORT MGD	REPORT MGD	281250 GPM	MGD	INCHES	7 MG/L	17 MG/L	9458 LBS/DAY	16 40 MG/L	40 MG/L	20268 LBS/DAY	2/4 MG/L	7 MG/L	27025404 LBS/DAY	5 MG/L	9 S.U.	6 S.U.	1 MG/L	.099 MG/L	NO. OF OUTFLOWS
DEC	137.503	134.853	181.590	136912	197.153	4.13	1.0	2.0	1158.2	1.1	2.0	1278.3	0.065	0.169	72.7	8.5	7.3	7.0	1.10	0.00	0
JAN	137.433	128.809	140.780	108468	156.194	0.22	1.1	2.0	1175.8	1.1	2.0	1181.5	0.133	1.053	142.8	8.9	7.4	6.9	1.01	0.00	0
FEB	137.315	139.859	203.770	144353	207.868	5.07	1.2	2.0	1389.5	1.3	3.0	1511.4	0.194	1.378	216.5	8.6	7.3	6.9	1.02	0.00	0
MAR	136.080	134.567	155.270	125458	180.660	0.85	1.2	2.0	1345.3	1.2	2.0	1305.5	0.641	3.639	720.3	6.5	7.3	6.8	1.12	0.00	0
APR	133.470	126.720	141.580	108124	155.699	1.90	1.0	1.0	1056.8	1.0	2.0	1090.9	0.310	3.540	320.3	8.1	7.4	6.8	1.04	0.00	0
MAY	132.530	132.691	174.660	137735	198.338	2.53	1.1	2.0	1176.6	1.3	2.0	1380.6	0.078	0.171	86.3	7.5	7.3	6.9	1.06	0.00	0
JUN	133.139	139.079	198.840	151308	217.884	5.17	1.0	1.0	1159.9	1.0	1.0	1159.9	0.074	0.119	86.1	7.5	7.4	6.9	1.05	0.00	1
JUL	132.39	126.118	136.740	106013	152.659	0.08	1.0	1.0	1051.8	1.0	1.0	1051.8	0.070	0.200	72.8	7.4	7.3	6.9	1.08	0.00	0
AUG																					
SEP																					
OCT																					
NOV																					
AVG	134.984	132.737	166.641	127296	183.307	2.49	1.1	1.6	1189.2	1.1	1.9	1245.0	0.196	1.284	214.7	8.1	7.3	6.9	1.06	0.00	TOTAL: 1
MAX	137.503	139.079	203.770	151308	217.884	5.17	1.2	2.0	1389.5	1.3	3.0	1511.4	0.641	3.639	720.3	8.9	7.4	7.0	1.12	0.00	
MIN	132.390	126.118	136.740	106013	152.659	0.08	1.0	1.0	1051.8	1.0	1.0	1051.8	0.065	0.119	72.7	7.4	7.3	6.8	1.01	0.00	
TOTAL	1079.870	1061.895				19.95			9513.9			9959.9			1717.8						

90% FLOW = 145.800 MGD
75% FLOW = 121.500 MGD

* EXCURSIONS: 0 TCEQ
0 EPA

**Rainfall totals are measured at OFW Airport



**CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2002**

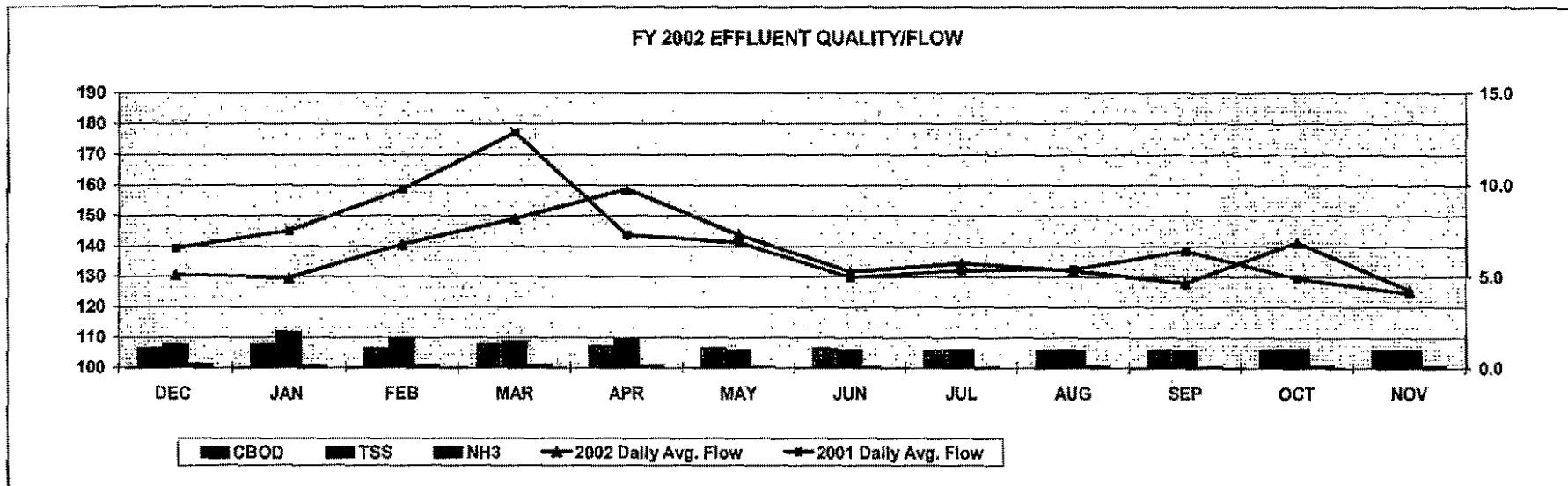
PERMITS NO: 10303-001 (TX0022802)

PERMIT LIMIT:	FLOW ANNL AVG 162 MGD	FLOW DLY AVG REPORT MGD	FLOW DLY MAX REPORT MGD	FLOW 2-HR PK 281250 GPM	FLOW 2-HR PK MGD	RAINFALL TOTAL** INCHES	CBOD DLY AVG 7 MGL	CBOD DLY MAX 17 MGL	CBOD DLY AVG 9459 LBS/DAY	TSS DLY AVG 16 MGL	TSS DLY MAX 49 MGL	TSS DLY AVG 20266 LBS/DAY	NH3 DLY AVG 2/4 MGL	NH3 DLY MAX 7 MGL	NH3 DLY AVG 2702/5404 LBS/DAY	DO MIN 6 MG/L	pH MAX 9 S.U.	pH MIN 6 S.U.	CL2 MIN 1 MG/L	CL2 OUTFALL 0.099 MG/L	COLLECT. SYSTEM NO. OF OUTFLOWS
DEC	140.159	130.540	208.090	165534	238.369	3.240	1.1	2.0	1181.4	1.3	2.0	1470.1	0.227	1.231	289.2	8.2	7.3	6.9	1.04	0.00	2
JAN	138.851	129.630	216.630	175093	252.134	4.900	1.3	2.0	1415.5	2.0	3.0	2149.3	0.161	0.555	175.8	8.6	7.2	6.9	1.07	0.00	0
FEB	137.479	140.801	206.390	167561	241.288	0.94	1.1	2.0	1363.0	1.6	3.0	1901.5	0.186	0.890	231.9	8.8	7.5	6.5	1.02	0.00	3
MAR	135.083	148.995	265.920	215513	310.339	7.39	1.3	6.0	1791.7	1.5	8.0	2150.6	0.184	0.846	245.3	7.5	7.5	6.6	1.08	0.00	6
APR	136.312	158.595	261.930	197586	284.524	5.68	1.2	3.0	1604.0	1.6	10.0	2567.9	0.156	0.462	214.1	8.3	7.3	7.0	1.02	0.00	3
MAY	136.526	143.760	205.510	167732	241.534	5.40	1.1	3.0	1304.8	1.0	1.0	1199.0	0.056	0.378	71.6	7.9	7.4	7.0	1.04	0.00	1
JUN	136.688	131.660	141.250	113607	163.594	3.10	1.1	4.0	1248.4	1.0	1.0	1098.1	0.064	0.163	70.6	7.2	7.3	7.0	1.15	0.00	0
JUL	136.932	134.391	160.880	119989	172.784	3.07	1.0	2.0	1160.7	1.0	1.0	1125.4	0.066	0.215	75.5	7.5	7.4	6.9	1.08	0.00	0
AUG	138.893	132.062	145.240	128083	184.440	1.47	1.0	1.0	1101.4	1.0	2.0	1138.4	0.131	0.850	144.3	6.8	7.4	6.9	1.13	0.00	1
SEP	136.03	127.992	144.750	216614	167.924	1.38	1.0	1.1	1078.4	1.0	1.0	1067.5	0.082	0.170	87.9	7.2	7.5	6.9	1.06	0.00	1
OCT	137.045	141.370	242.840	182561	262.888	6.44	1.0	1.0	1179.0	1.1	2.0	1281.4	0.156	1.221	203.4	7.6	7.4	6.8	1.06	0.00	1
NOV	137.137	125.680	141.420	111472	160.520	0.52	1.0	1.0	1048.2	1.0	1.0	1048.2	0.102	0.599	106.6	8.2	7.3	6.9	1.04	0.00	2
AVG	137.095	137.106	195.071	155112	223.361	3.63	1.1	2.3	1289.0	1.3	2.9	1516.5	0.131	0.627	159.7	7.8	7.4	6.9	1.07	0.00	TOTAL: 20
MAX	140.159	158.595	265.920	215513	310.339	7.39	1.3	6.0	1791.7	2.0	10.0	2567.9	0.227	1.231	289.2	8.8	7.5	7.0	1.15	0.00	
MIN	136.083	125.680	141.250	111472	160.520	0.52	1.0	1.0	1048.2	1.0	1.0	1048.2	0.056	0.163	70.6	6.8	7.2	6.5	1.02	0.00	
TOTAL	1645.136	1645.276				43.53			15466.5			18197.4			1916.2						

90% FLOW = 145.800 MGD
75% FLOW = 121.500 MGD

* EXCURSIONS: 0 TCEQ
0 EPA

**Rainfall totals are measured at DFW Airport



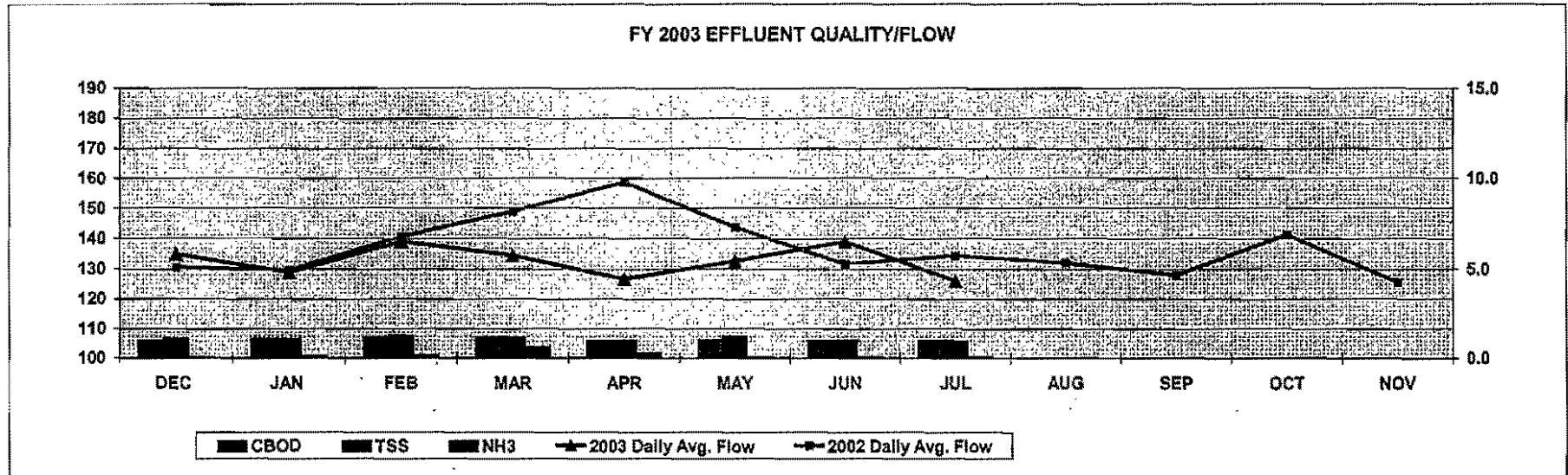
HANDOUT - ZENDA ITEM V-A

	FLOW ANNL AVG	FLOW DLY AVG	FLOW DLY MAX	FLOW 2-HR PK	FLOW 2-HR PK	RAINFALL TOTAL**	CBOD DLY AVG	CBOD DLY MAX	CBOD DLY AVG	TSS DLY AVG	TSS DLY MAX	TSS DLY AVG	NH3 DLY AVG	NH3 DLY MAX	NH3 DLY AVG	DO MIN	pH MAX	pH MIN	CL2 MIN	CL2 OUTFALL	COLLECT. SYSTEM
PERMIT LIMIT:	162 MGD	REPORT MGD	REPORT MGD	261260 GPM	MGD	INCHES	7 MGL	17 MGL	9458 LBS/DAY	15 MGL	40 MGL	20266 LBS/DAY	2/4 MGL	7 MGL	27025404 LBS/DAY	6 MGL	9 S.U.	5 S.U.	1 MGL	CL2 OUTFALL	NO. OF OUTFLOWS
DEC	137.503	134.853	181.590	136912	197.153	4.13	1.0	2.0	1158.2	1.1	2.0	1278.3	0.065	0.189	72.7	8.5	7.3	7.0	1.10	0.00	0
JAN	137.433	128.809	149.760	108466	156.194	0.22	1.1	2.0	1175.8	1.1	2.0	1181.5	0.133	1.053	142.8	8.9	7.4	6.9	1.01	0.00	0
FEB	137.315	139.059	203.770	144383	207.868	5.07	1.2	2.0	1389.5	1.3	3.0	1511.4	0.194	1.378	218.5	8.6	7.3	6.9	1.02	0.00	0
MAR	136.090	134.567	155.270	125456	180.660	0.85	1.2	2.0	1345.3	1.2	2.0	1305.5	0.641	3.639	720.3	8.5	7.3	6.8	1.12	0.00	0
APR	133.470	126.720	141.580	108124	185.699	1.90	1.0	1.0	1056.8	1.0	2.0	1090.9	0.310	3.540	320.3	8.1	7.4	6.8	1.04	0.00	0
MAY	132.530	132.691	174.660	137735	198.338	2.53	1.1	2.0	1176.6	1.3	2.0	1380.6	0.078	0.171	86.3	7.5	7.3	6.9	1.06	0.00	0
JUN	133.139	139.079	198.840	151308	217.884	5.17	1.0	1.0	1159.9	1.0	1.0	1159.9	0.074	0.119	86.1	7.5	7.4	6.9	1.05	0.00	1
JUL	132.39	126.118	136.740	106013	182.659	0.08	1.0	1.0	1051.8	1.0	1.0	1051.8	0.070	0.200	72.8	7.4	7.3	6.9	1.08	0.00	0
AUG																					
SEP																					
OCT																					
NOV																					
																					TOTAL:
AVG	134.984	132.737	166.641	127296	183.307	2.49	1.1	1.6	1189.2	1.1	1.9	1245.0	0.196	1.284	214.7	8.1	7.3	6.9	1.06	0.00	1
MAX	137.503	139.079	203.770	151308	217.884	5.17	1.2	2.0	1389.5	1.3	3.0	1511.4	0.541	3.639	720.3	8.9	7.4	7.0	1.12	0.00	
MIN	132.390	126.118	136.740	106013	182.659	0.08	1.0	1.0	1051.8	1.0	1.0	1051.8	0.065	0.119	72.7	7.4	7.3	6.8	1.01	0.00	
TOTAL	1079.870	1061.896				19.95			9513.6			9989.8			1717.8						

90% FLOW = 145.800 MGD
75% FLOW = 121.500 MGD

* EXCURSIONS: 0 TCEQ
0 DEPA

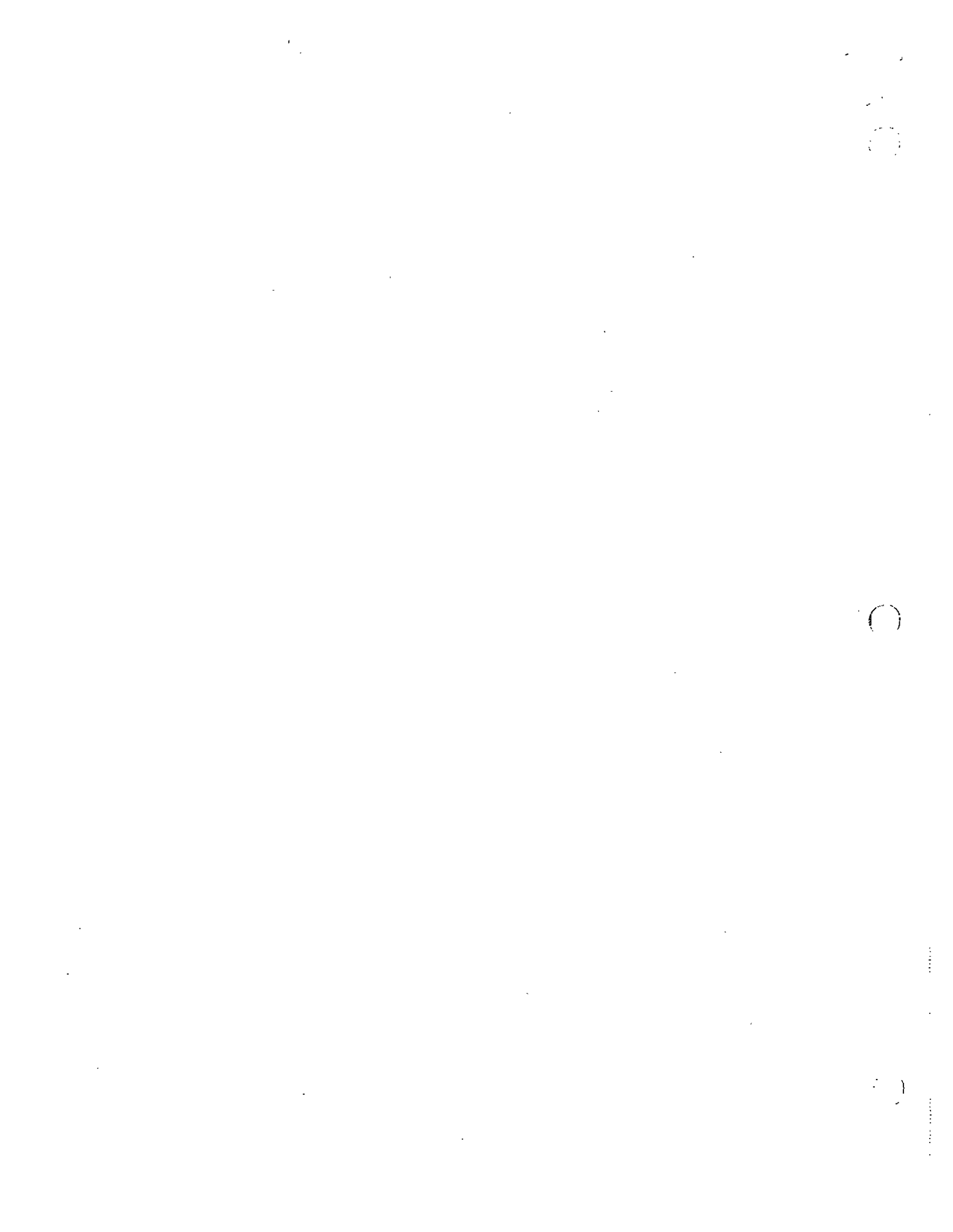
**Rainfall totals are measured at DFW Airport



CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2002 SCHEDULE OF ACTUAL ANNUAL REQUIREMENT ADJUSTED FOR INTERCEPTOR I/I (METHOD 2)

CONTRACTING PARTY	FY 2002 CONTRIBUTION BASED ON ACTUAL FLOW		DISTRIBUTION OF FY 2002 ACTUAL ANNUAL REQUIREMENT BASED ON ACTUAL FLOWS	TRA INTERCEPTOR I/I (MG)	ADJUSTED FY 2002 CONTRIBUTION		ADJUSTED DISTRIBUTION OF FY 2002 ACTUAL ANNUAL REQUIREMENT	FY 2002 ACTUAL ANNUAL REQUIREMENT ADJUSTMENT
	TOTAL FLOW (MG)	PERCENT			TOTAL FLOW (MG)	PERCENT		
ADDISON	809.557	1.525%	\$765,333		809.557	1.538%	\$771,858	\$6,524
ARLINGTON	16,020.687	30.187%	\$15,149,586	0.106	16,020.581	30.433%	\$15,273,043	\$123,457
BEDFORD	1,788.659	3.370%	\$1,891,261		1,788.659	3.398%	\$1,705,313	\$14,052
CARROLLTON	5,010.683	9.441%	\$4,738,041		5,010.683	9.518%	\$4,776,684	\$38,643
CEDAR HILL	118.152	0.223%	\$111,914		118.152	0.224%	\$112,416	\$502
COLLEYVILLE	836.125	1.575%	\$790,426	13.269	822.858	1.563%	\$784,404	(\$6,022)
COPPELL	1,424.204	2.684%	\$1,346,987		1,424.204	2.705%	\$1,357,526	\$10,539
DALLAS	3,015.124	5.681%	\$2,851,055	99.361	2,915.763	5.539%	\$2,779,791	(\$71,264)
D/FW AIRPORT	714.221	1.346%	\$675,501		714.221	1.357%	\$681,021	\$5,520
DUNCANVILLE	68.124	0.128%	\$64,238		68.124	0.130%	\$65,242	\$1,004
EULESS	1,485.245	2.799%	\$1,404,700	63.979	1,421.266	2.700%	\$1,355,016	(\$49,684)
FARMERS BRANCH	2,381.031	4.486%	\$2,251,335	0.278	2,380.753	4.523%	\$2,269,904	\$18,569
FORT WORTH	695.098	1.310%	\$657,434	54.241	640.857	1.217%	\$610,761	(\$46,673)
GRAND PRAIRIE	5,042.132	9.501%	\$4,768,152	175.816	4,866.316	9.244%	\$4,639,175	(\$128,977)
GRAPEVINE	606.365	1.143%	\$573,624	15.921	590.444	1.122%	\$563,085	(\$10,539)
HURST	66.664	0.126%	\$63,234		66.664	0.127%	\$63,736	\$502
IRVING	10,000.476	18.844%	\$9,457,011		10,000.476	18.997%	\$9,533,795	\$76,784
KELLER	681.713	1.661%	\$833,586	1.423	880.290	1.672%	\$839,106	\$5,520
MANSFIELD	1,222.305	2.303%	\$1,165,779		1,222.305	2.322%	\$1,165,314	\$9,535
N RICHLAND HILLS	223.372	0.421%	\$211,282	3.011	220.361	0.419%	\$210,278	(\$1,004)
SOUTHLAKE	661.296	1.246%	\$625,315	2.132	659.164	1.252%	\$628,326	\$3,011
	<u>53,071.232</u>	<u>100.000%</u>	<u>\$50,185,795</u>	<u>429.537</u>	<u>52,641.696</u>	<u>100.000%</u>	<u>\$50,185,795</u>	<u>\$0</u>

HANDOUT AGENDA ITEM V-B



**CENTRAL REGIONAL WASTEWATER SYSTEM
CAPACITY FOR UPSTREAM CITY (METHOD 2)**

Delta Meter		Upstream Meter(s)						Upstream Interceptor			Downstream Interceptor		
City	Meter ID	City	Meter ID	Node	Lateral	Interceptor	Sta. No.	Diameter	Slope	Capacity (cfs)	Diameter	Slope	Capacity (cfs)
Farmers Branch	13.0E	Addison	13.1E	1930E	EF012	EF2R	537.43	30	0.00270	21.310	30	0.00220	19.240
		Addison	13.2E	1930E	EF012	EF2R	537.43	18	0.01050	10.760	15	0.00500	4.570
		Addison	13.3E	1930E	EF012	EF2R	537.43	City			18	0.00720	8.910
Grapevine	11.8B	Colleyville	11.9B	3460B	BC019	BBCXII	7310.00	48	0.00070	37.998	48	0.00080	40.738
		DFW	11.7B	2900B	BC017	BBC	9384.00	12	0.00400	2.250	12	0.00400	2.250
Colleyville	11.9B	Southlake	13.5B	3810B	BC020	BBCXIII	19240.00	36	0.00220	31.369	36	0.00240	32.763
		Southlake	12.1B	3590B	BC019	BBCXII	450.00	18	0.00120	3.649	18	0.00120	3.649
		Southlake	12.3B	4120B	BC016	BBCXIII	85.00	City			15	0.00150	2.509
		Southlake	12.7B	4090B	BC020.4	BBCXIII	325.00	City			15	0.00460	4.299
Southlake	13.5B	Keller	12.8B	4060B	BC018	BBCXI	25985.00	36	0.00172	27.712	36	0.00172	27
Keller	12.8B	North Richland Hills	13.3B	6280B	BC019.3	BBCXII	3128.06	12	0.00200	1.598	12	0.00200	1.598
		Southlake	13.6B	4920B	BC018.1	BBCXI	90.00	18	0.01700	13.700	21	0.00100	5.010
Euless	12.0B	Grapevine	12.6B	6090B	BC013	GV7R	5325.00	12	0.00202	1.606	12	0.00860	3.351
		Colleyville	12.9B	2395B	BC010	CO17	5436.48	End of Line			12	0.00241	1.754
		Colleyville	13.0B	1560B	BC007	LBCI	9600.00	42	0.00228	48.170	42	0.00240	49.421
		Bedford	13.1B	2460B	BC012	B13	2266.00	City			12	0.00200	1.598
North Richland Hills	14.0B	Keller	14.7B	MS14.7B	BC008.1	LBCII	35540.00	City			12	0.00580	2.721
		Keller	16.0B	2210B	BC008	LBCII	38040.00	21	0.00200	7.105	21	0.00339	9.250
Keller	15.0B	North Richland Hills	16.0B	MS16.0B	BC008.2	LBCII	38837.00	City			8	0.00400	0.766
Grand Prairie	5.0W	Arlington	6.0W	1470W	WF003	WFXJB	13100.00	27	0.00770	27.249	27	0.00770	27.249
Grand Prairie	7.0W	Arlington	8.0W	1780W	WF004	WFXJC	15746.82	42	0.00148	38.810	42	0.00200	45.115
Arlington	9.0W	Grand Prairie	9.5W	MS9.5W	WF015.1	WFCEO	2441.32	City			6	0.00800	0.503
		Grand Prairie	9.7W	MS9.7W	WF015.2	WFCEO	2441.32	City			6	0.00480	0.390
		Grand Prairie	9.8W	MS9.8W	WF015.4	WFCEO	2441.32	City			8	0.00800	1.084
Fort Worth	10.0W	Euless	11.6W	MS11.6W	WF011.1	BBP	6768.00	City			10	0.00340	1.281
		Euless	11.8W	2460W	WF011	BBP	12767.50	24	0.00408	14.489	24	0.00410	14.524
Euless	11.8W	Fort Worth	10.5W	2470W	WF011	BBP	13121.76	City			12	0.08160	10.180
		Bedford	11.9W	2860W	WF013.1	BBRI	20.00	End of Line			12	0.01450	4.302
Euless	13.0W	Bedford	15.0W	3720W	WF017	TJO	2156.00	City			12	0.00339	2.080
		Bedford	15.5W	MS15.5W	WF018.1	HCT	1142.32	City			12	0.00300	1.957
		Bedford	16.0W	3760W	WF018	HCT	2821.65	City			18	0.00340	6.112
Euless	16.5W	Bedford	17.0W	3330W	WF016	BOT	8783.00	10	0.00850	2.025	10	0.00400	
Euless	18.0W	Bedford	18.1W	3539W	WF014B	EOS	650.00	12	0.00317	2.011	12	0.32000	20.209
		Hurst	18.6W	MS18.6W	WF014A.3	EOSB	3525.65	City			10	0.02000	3.107
		Bedford	19.0W	3860W	WF019	SBT	7560.00	18	0.01980	14.821	18	0.00340	6.142
		Bedford	19.1W	3480W	WF014A	EOSB	2747.16	36	0.00440	44.362	27	0.00440	20.599
Grand Prairie	5.0J	Arlington	7.0J	1810J	JT008	CWRR	20372.81	City			30	0.00550	30.501
		Arlington	8.0J	MS8.0J	JT001	CWCS	11390.00	21	0.00100	5.024	21	0.00802	14.228
Dallas	3.0M	Duncanville	4.5M	MS4.5M	MC002.1	MC2	148.00	City			15	0.01350	7.526
		Grand Prairie	5.1M	380M	MC006	FCCP	18.00	60	0.00150	101.140	60	0.00150	101.140
		Grand Prairie	5.3M	2120M	MC004	EMCR	109.20	30	0.00100	13.006	27	0.00266	16.016
		Cedar Hill	CH	2290M	MC012	NEL	29700.00	FM			24	0.02401	35.148
Grand Prairie	5.1M	Arlington	7.0M	1080M	MC007	NFFC	16340.00	27	0.00260	15.834	27	0.00260	15.834
		Arlington	9.0M	8030M	MC005	SFFCR	953.50	30	0.00400	26.011	30	0.00400	26.011
		Arlington	9.6M	1950M	MC010	BOWBR	4558.00	36	0.00219	31.297	36	0.00220	31.369
		Mansfield	10.0M	1840M	MC009	WCT	17987.61	27	0.00075	8.504	27	0.00075	8.504

CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2002 INTERCEPTOR I/I

Customer City for Receiving Meter	Receiving Meter	Upstream Meters	ADF (mgd)	ADDF (mgd)	I/I (mgd)	TRA Interceptor I/dm	City I/dm	Total I/dm	I/I per I/dm	TRA Interceptor I/I (mgd)	TRA Interceptor I/I (mg)	Adjusted TRA Interceptor I/dm	Adjusted TRA Interceptor I/I (mgd)	Adjusted TRA Interceptor I/I (mg)
Arlington	9.0W	9.5W, 9.7W, 9.8W	2.167	1.924	0.244	0.75	394.10	394.85	0.0006174	0.000	0.169	0.47	0.000	0.106
Colleyville	11.9B	12.7B, 13.5B, 12.1B, 12.3B	0.645	0.474	0.172	136.54	319.80	456.34	0.0003762	0.051	18.749	96.63	0.036	13.269
Dallas	3.0M	4.5M, 5.1M, 5.3M	3.907	3.044	0.863	808.06	1267.61	1875.67	0.0004601	0.280	102.110	591.69	0.272	99.361
Eules	11.8W	11.9W, 10.5W	1.036	0.775	0.262	31.32	302.70	334.02	0.0007829	0.026	8.950	24.27	0.019	6.936
Eules	12.0B	12.6B, 13.0B, 12.9B, 13.1B	0.687	0.467	0.180	182.54	255.00	437.54	0.0004119	0.075	27.443	150.88	0.062	22.683
Eules	13.0W	15.0W, 15.5W, 18.0W	0.833	0.315	0.518	83.90	215.80	299.70	0.0017270	0.145	52.886	53.36	0.092	33.635
Eules	16.5W	17.0W	0.063	0.052	0.011	8.08	122.00	130.08	0.0000882	0.001	0.260	5.39	0.001	0.206
Eules	18.0W	18.1W, 18.6W, 19.0W, 19.1W	0.634	0.526	0.009	49.38	203.60	252.98	0.0000341	0.002	0.614	41.70	0.001	0.519
Farmers Branch	13.0E	13.1E, 13.2E, 13.3E	4.845	3.266	1.658	1.46	1346.80	1348.26	0.0011559	0.002	0.616	0.66	0.001	0.278
Fort Worth	10.0W	11.6W, 11.8W	0.631	0.197	0.334	62.43	76.47	138.90	0.0024054	0.150	54.812	61.78	0.149	54.241
Grand Prairie	5.0J	7.0J, 8.0J	4.294	3.185	1.109	505.76	1648.51	2154.27	0.0005146	0.260	94.991	200.43	0.103	37.644
Grand Prairie	5.0W	8.0W	0.554	0.458	0.097	71.15	195.86	266.81	0.0003625	0.028	9.414	70.52	0.028	9.330
Grand Prairie	5.1M	7.0M, 9.0M, 9.6M, 10.0M	2.931	1.711	1.220	596.25	1868.20	2464.46	0.0004948	0.295	107.694	503.53	0.249	90.947
Grand Prairie	7.0W	8.0W	2.193	1.842	0.352	182.46	220.24	402.70	0.0008739	0.159	58.202	118.80	0.104	37.895
Grapevine	11.8B	11.9B, 11.7B	1.337	1.084	0.273	182.59	869.24	1051.83	0.0002593	0.047	17.283	168.20	0.044	15.921
Keller	12.8B	13.3B, 13.6B	1.710	1.450	0.260	161.15	1467.79	1628.94	0.0001594	0.026	9.373	22.21	0.004	1.292
Keller	15.0B	16.0B	0.673	0.570	0.103	3.25	437.89	441.14	0.0002335	0.001	0.277	1.54	0.000	0.131
North Richland Hills	14.0B	14.7B, 15.0B	0.574	0.509	0.065	69.76	371.88	441.64	0.0001468	0.010	3.737	58.21	0.008	3.011
Southlake	13.5B	12.8B	0.766	0.717	0.048	46.42	334.95	381.37	0.0001259	0.006	2.133	46.40	0.006	2.132
TOTAL			30.259	22.584	7.675	2983.25	11918.24	14901.49	0.0112286	1.561	569.711	2215.67	1.177	429.537

CENTRAL REGIONAL WASTEWATER SYSTEM
CAPACITY FOR UPSTREAM CITY (METHOD 2)

Delta Meter		Upstream Meter(s)						Upstream Interceptor			Downstream Interceptor		
City	Meter ID	City	Meter ID	Node	Lateral	Interceptor	Sta. No.	Diameter	Slope	Capacity (cfs)	Diameter	Slope	Capacity (cfs)
Farmers Branch	13.0E	Addison	13.1E	1930E	EF012	EF2R	537.43	30	0.00270	21.310	30	0.00220	19.240
		Addison	13.2E	1930E	EF012	EF2R	537.43	18	0.01050	10.760	15	0.00500	4.570
		Addison	13.3E	1930E	EF012	EF2R	537.43	City			18	0.00720	8.910
Grapevine	11.8B	Colleyville	11.9B	3450B	BC019	BBCXII	7310.00	48	0.00070	37.998	48	0.00080	40.738
		DFW	11.7B	2900B	BC017	BBC	9384.00	12	0.00400	2.250	12	0.00400	2.250
Colleyville	11.9B	Southlake	13.5B	3810B	BC020	BBCXIII	19240.00	36	0.00220	31.369	36	0.00240	32.763
		Southlake	12.1B	3590B	BC019	BBCXII	450.00	18	0.00120	3.649	18	0.00120	3.649
		Southlake	12.3B	4120B	BC016	BBCXIII	85.00	City			15	0.00150	2.509
		Southlake	12.7B	4090B	BC020.4	BBCXIII	325.00	City			15	0.00460	4.393
Southlake	13.5B	Keller	12.8B	4060B	BC018	BBCXI	25985.00	36	0.00172	27.712	36	0.00172	27
Keller	12.8B	North Richland Hills	13.3B	6280B	BC019.3	BBCXII	3128.06	12	0.00200	1.598	12	0.00200	1.598
		Southlake	13.6B	4920B	BC018.1	BBCXI	90.00	18	0.01700	13.700	21	0.00100	5.010
Eules	12.0B	Grapevine	12.6B	6090B	BC013	GV7R	5325.00	12	0.00202	1.606	12	0.00880	3.351
		Colleyville	12.9B	2395B	BC010	CO17	5436.48	End of Line			12	0.00241	1.754
		Colleyville	13.0B	1580B	BC007	LBCI	9600.00	42	0.00228	48.170	42	0.00240	49.421
		Bedford	13.1B	2460B	BC012	B13	2266.00	City			12	0.00200	1.598
North Richland Hills	14.0B	Keller	14.7B	MS14.7B	BC008.1	LBCII	35640.00	City			12	0.00580	2.721
		Keller	15.0B	2210B	BC008	LBCII	38040.00	21	0.00200	7.105	21	0.00339	9.250
Keller	15.0B	North Richland Hills	16.0B	MS16.0B	BC008.2	LBCII	38837.00	City			8	0.00400	0.766
Grand Prairie	5.0W	Arlington	6.0W	1470W	WF003	WFXJB	13100.00	27	0.00770	27.249	27	0.00770	27.249
Grand Prairie	7.0W	Arlington	8.0W	1780W	WF004	WFXJC	15746.82	42	0.00148	38.810	42	0.00200	45.115
Arlington	9.0W	Grand Prairie	9.5W	MS9.5W	WF015.1	WFCEO	2441.32	City			6	0.00800	0.503
		Grand Prairie	9.7W	MS9.7W	WF015.2	WFCEO	2441.32	City			6	0.00480	0.390
		Grand Prairie	9.8W	MS9.8W	WF015.4	WFCEO	2441.32	City			8	0.00800	1.084
Fort Worth	10.0W	Eules	11.6W	MS11.6W	WF011.1	BBP	6768.00	City			10	0.00340	1.281
		Eules	11.8W	2460W	WF011	BBP	12767.50	24	0.00408	14.489	24	0.00410	14.524
Eules	11.8W	Fort Worth	10.5W	2470W	WF011	BBP	13121.76	City			12	0.08160	10.180
		Bedford	11.9W	2860W	WF013.1	BBRI	20.00	End of Line			12	0.01450	4.302
Eules	13.0W	Bedford	15.0W	3720W	WF017	TJO	2156.00	City			12	0.00339	2.080
		Bedford	15.5W	MS15.5W	WF018.1	HCT	1142.32	City			12	0.00300	1.957
		Bedford	16.0W	3760W	WF018	HCT	2821.65	City			18	0.00340	6.442
Eules	16.5W	Bedford	17.0W	3330W	WF016	BOT	8783.00	10	0.00850	2.026	10	0.00400	
Eules	18.0W	Bedford	18.1W	3539W	WF014B	EOS	650.00	12	0.00317	2.011	12	0.32000	20.209
		Hurst	18.6W	MS18.6W	WF014A.3	EOSB	3525.65	City			10	0.02000	3.107
		Bedford	19.0W	3860W	WF019	SBT	7560.00	18	0.01980	14.821	18	0.00340	6.142
		Bedford	19.1W	3480W	WF014A	EOSB	2747.16	36	0.00440	44.362	27	0.00440	20.599
Grand Prairie	5.0J	Arlington	7.0J	1810J	JT008	CWRR	20372.81	City			30	0.00550	30.501
		Arlington	8.0J	MS8.0J	J1001	CWCS	11390.00	21	0.00100	5.024	21	0.00802	14.228
Dallas	3.0M	Duncanville	4.5M	MS4.5M	MC002.1	MC2	148.00	City			15	0.01350	7.526
		Grand Prairie	5.1M	380M	MC006	FCCP	18.00	60	0.00150	101.140	60	0.00150	101.140
		Grand Prairie	5.3M	2120M	MC004	EMCR	109.20	30	0.00100	13.006	27	0.00266	16.016
		Cedar Hill	CH	2290M	MC012	NEL	29700.00	FM			24	0.02401	35.148
Grand Prairie	5.1M	Arlington	7.0M	1080M	MC007	NFFC	16340.00	27	0.00260	15.834	27	0.00260	15.834
		Arlington	9.0M	8030M	MC005	SFFCR	953.50	30	0.00400	26.011	30	0.00400	26.011
		Arlington	9.6M	1950M	MC010	BOWBR	4558.00	36	0.00219	31.297	36	0.00220	31.369
		Mansfield	10.0M	1840M	MC009	WCT	17987.61	27	0.00075	8.504	27	0.00075	8.504

CENTRAL REGIONAL WASTEWATER SYSTEM INTERCEPTOR I/I PRORATION METHOD 2

The following is a description of Method 2 for prorating CRWS interceptor infiltration/inflow (I/I) to the contracting party flows.

1. Determine the annual volume of I/I for each subsystem defined by a delta meter location. $ADF - ADDF = I/I$ (annually).

The use of delta meter subsystem values assumes that the annual average I/I per idm for the CRWS interceptors and the city collection system served by the interceptor is the same within the delta meter subsystem. The interceptors upstream of non-delta meters are considered to be lines required to serve the metered city, regardless of ownership. The evaluation of I/I annually will provide a trending to account for annual rainfall, I/I reduction in the CRWS and the city collection systems, and any other changes in the condition of the systems.

2. Determine the city inch-diameter-miles (idm) within the delta meter subsystem. The delta meter subsystem idm could be determined annually, or assumed to remain the same for a period of three to five years.
3. Determine the CRWS interceptor idm within the delta meter subsystem.
4. Determine the annual subsystem I/I per idm. (No. 1 divided by the sum of No. 2 and No. 3).
5. Determine the adjusted CRWS interceptor idm. The adjusted interceptor idm is based on the interceptor size required to transport the existing flow capacity provided for the upstream city using the slope of the existing CRWS interceptor segments from the upstream meter to the delta meter. The existing interceptor size in excess of the size required for the upstream city is considered to be required to serve the delta metered city, regardless of ownership.
6. Apply the annual subsystem I/I per idm to the adjusted CRWS interceptor idm. (No. 4 multiplied by No. 5).
7. Adjust the Fiscal Year Contribution Based on Actual Flow for each of the contracting parties.
8. Adjust the Distribution of Fiscal Year Actual Annual Requirement Based on Actual Flows for each of the contracting parties.

CENTRAL REGIONAL WASTEWATER SYSTEM INTERCEPTOR I/I PRORATION METHODOLOGY

Method 2

Method 2 utilizes the CRWS and city inch-diameter-mile (idm) calculations, and the metered flows from each delta meter to prorate interceptor I/I on a subsystem basis. The interceptor I/I is developed by applying the I/I per idm for the delta meter subsystem to an adjusted interceptor idm. The adjusted interceptor idm is based on the line size required to transport the existing flow capacity provided for the upstream city. The interceptor I/I flows are deducted from the Fiscal Year Contribution and the Annual Requirement is revised based on adjusted contribution percentages.

CENTRAL REGIONAL WASTEWATER SYSTEM INTERCEPTOR I/I PRORATION METHOD 2

The following is a description of Method 2 for prorating CRWS interceptor infiltration/inflow (I/I) to the contracting party flows.

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7. Adjust the Fiscal Year Contribution Based on Actual Flow for each of the contracting parties.
8. Adjust the Distribution of Fiscal Year Actual Annual Requirement Based on Actual Flows for each of the contracting parties.

MEMORANDUM

Trinity River Authority of Texas
Interceptor I/I Proration
Negative Flow Adjustment

B&V Project 66779.110
B&V File B
July 26, 2001

To: Patricia Cleveland

From: Layne Parsons, P.E.

The following methodology is proposed for adjusting negative average daily flow (ADF) and infiltration/inflow (I/I) flows used in the interceptor I/I proration calculation.

ADF Adjustment

If a negative ADF value is calculated for a receiving (delta) meter, negative ADF should not be adjusted for the interceptor I/I proration. ADF and I/I will be zero (0) at delta meter locations with negative ADF.

I/I Adjustment

If a negative I/I value is calculated for a receiving (delta) meter, use the following steps to determine an adjusted I/I value:

1. Using the estimated developed acres and the current annual I/I, determine the average gallons-per-acre-day (gpad) for the meters upstream of the receiving (delta) meter.
2. Apply the calculated average gpad I/I flow value to the cumulative developed acres for the receiving (delta) meter to determine a revised annual I/I for the receiving (delta) meter.
3. Using the revised annual cumulative I/I for the receiving (delta) meter, calculate the delta I/I.

**CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION
FLOW ANALYSIS CRITERIA**

The average annual daily flow (ADF) is defined to be the total annual flow divided by the total number of days in the year.

The average daily dry weather flow (ADDF) is defined to be the lowest seven day average flow recorded during the year.

The following criteria are established for the analysis of the flows used to determine the ADF and ADDF for the interceptor I/I proration.

1. The beginning of the fiscal year for flow recordings may result in partial inclusion of the first seven day average meter recording. Partial seven day average meter recordings consisting of less than four (4) days will not be considered for use as the ADDF.
2. During the year, there may be a need to adjust the recorded flows. The reason for these adjustments may include, but not be limited to line blockage or year-to-date (YTD) adjustments. Adjusted flows will not be considered for use as ADDF.

**CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION
FLOW ANALYSIS CRITERIA**

The average annual daily flow (ADF) is defined to be the total annual flow divided by the total number of days in the year.

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2. During the year, there may be a need to adjust the recorded flows. The reason for these adjustments may include, but not be limited to line blockage or year-to-date (YTD) adjustments. Adjusted flows will not be considered for use as ADDF.

HANDOUT AGENDA ITEM Y-B

CRWS - 2003 MID YEAR REALLOCATION

03myadjPROJ

CONTRACTING PARTY	2003 BUDGET MGD	2003 BUDGET % SHARE	2003 REVISED MGD	2003 REVISED % SHARE
ADDISON	2.280	1.518%	2.097	1.466%
ARLINGTON	45.460	30.276%	41.719	29.165%
BEDFORD	4.700	3.130%	4.767	3.333%
CARROLLTON	12.000	7.992%	13.707	9.582%
CEDAR HILL	0.300	0.200%	0.329	0.230%
COLLEYVILLE	2.527	1.683%	2.421	1.693%
COPPELL	3.900	2.597%	3.993	2.791%
DALLAS	8.500	5.661%	10.301	7.202%
DFW AIRPORT	2.310	1.539%	1.769	1.237%
DUNCANVILLE	0.200	0.133%	0.204	0.143%
EULESS	4.275	2.847%	3.191	2.231%
FARMERS BRANCH	6.700	4.462%	6.809	4.760%
FORT WORTH	1.368	0.911%	1.091	0.763%
GRAND PRAIRIE	16.690	11.116%	13.567	9.484%
GRAPEVINE	1.920	1.279%	1.664	1.163%
HURST	0.202	0.135%	0.182	0.127%
IRVING	28.750	19.148%	26.628	18.614%
KELLER	2.415	1.608%	2.138	1.495%
MANSFIELD	3.250	2.165%	3.541	2.475%
N RICHLAND HILLS	0.703	0.468%	0.748	0.523%
SOUTHLAKE	1.700	1.132%	2.179	1.523%
TOTAL	150.1500	100.000%	143.045	100.000%

Minor variations may occur due to rounding

Running 4.5% below projected flow

Lower operating expenses

Power costs have gone up

5.1 ¢ / Kw-hr w/o wire cost

1.1 ¢ wire charge

HANDOUT AGENDA ITEM V-D

August 6, 2003
(Previous report August 7, 2002)

CENTRAL REGIONAL WASTEWATER SYSTEM PLANNING, DESIGN AND CONSTRUCTION PROJECTS STATUS REPORT

PLANNING and OTHER ACTIVITIES

Name: 2004 Series Bond Sale
Status: Completed 2001 Five Year Plan Update in January 2001
Submitted 2004 IUP to TWDB in March 2003
Received notification of public hearing on TWDB SRF 2004 IUP
Anticipated Bond Sale in 2004

Name: I and I Management Plan – Phase IV
Type: Flow and Rainfall Data Collection and Evaluation
Status: Contract awarded in December 2001
Work is approximately 84% complete

Name: Wet Weather Flow Evaluation
Type: Evaluation Technologies and Alternatives
Status: Contract awarded in 2001
Work is approximately 94% complete

Name: Oxygen Feed Pilot Study
Type: ~~Oxygen Pilot Study~~, Odor Survey and Monitoring
Status: Contract awarded in 2002
Work is approximately 51% complete

Name: Phase IV Master Plan Project
Type: Master Plan Report
Status: Contract awarded in 2002
Work is approximately 55% complete

Name: GIS Implementation Plan
Type: Software Purchase and Development and Installation
Status: Contract awarded in 2003
Work is approximately <5% complete

ACTIVE PIPELINE DESIGN PROJECTS

ELM FORK INTERCEPTOR SYSTEM

Name: Elm Fork Relief Interceptor, EF-G
Location: Cities of Coppell and Carrollton
Adjacent to Belt Line Road, from Luna Road to Fairway
Type/Size: 48-inch parallel relief of 6,900-feet of 33-inch diameter pipeline
Status: Design initiated November 1994
Design Revisions begun May 1997
Final Design revisions completed June 2000
Design is 99% complete
Easement/permit acquisition 95% complete
Condemnation proceedings in progress
Intensive landowner negotiations in progressing
Anticipated construction award by December 2003

Name: Elm Fork Relief Interceptor, EF-1
Location: City of Irving
North of CRWS Treatment Plant, from West Fork of Trinity River to SH 183
Type: 102-inch parallel relief of 25,300-feet of 72- and 96-inch diameter pipelines
Status: Design begun in 1996
Design 95% complete
Plats and Legals complete
Easement acquisition begun December 2000
Anticipated construction award in 2005

Name: Elm Fork Relief Interceptor, EF-2
Location: Cities of Irving and Dallas
North of SH 183 to Spur 348
Type: 96-inch parallel relief of 20,600-feet of 96-inch diameter pipeline
Status: Design initiated in 1995
Revisions to Final Design made in December 1997
Design 76% complete
Easement acquisition to begin by January 2002
Anticipated construction award in 2005

Name: Elm Fork Relief Interceptor, EF-6
Location: Cities of Farmers Branch and Dallas
North of Spur 348 to I-635
Type: 72-inch parallel relief of 12,900-feet 72-inch diameter pipeline
Status: Design initiated in August 1998
Design 46% complete
Easement acquisition to begin in 2002
Anticipated construction award by 2005

MOUNTAIN CREEK INTERCEPTOR SYSTEM

Name: Kirby Creek Outfall Interceptor
Location: City of Grand Prairie
From Fish Creek to Great Southwest Parkway
Type: Preliminary Engineering Study and Environmental Assessment of 20,500-feet of 12-
inch to 24-inch line
Status: Preliminary Design Contract awarded in August 1998
Preliminary Engineering Study completed August 1999
Environmental Assessment completed by March 2001
Preliminary Engineering and Environmental Work is 94% complete
Final Design initiated in late 2002
Final Design is 10% complete
Easement acquisition to begin by fall of 2003
Anticipated construction award in 2004

Name: Mountain Creek Kirby Creek II Rehabilitation
Location: City of Grand Prairie
Upstream of LS4 along Mountain Creek Lake
Type: Rehab 4,650-feet of 30-inch diameter pipeline
Status: Design initiated in 2001
Design 100% complete
Easement acquisition in progress
Anticipated construction award by December 2003

Name: Elm Fork Relief Interceptor, EF-1
Location: City of Irving
North of CRWS Treatment Plant, from West Fork of Trinity River to SH 183
Type: 102-inch parallel relief of 25,300-feet of 72- and 96-inch diameter pipelines
Status: Design begun in 1996
Design 95% complete
Plats and Legals complete
Easement acquisition begun December 2000
Anticipated construction award in 2005

Name: Elm Fork Relief Interceptor, EF-2
Location: Cities of Irving and Dallas
North of SH 183 to Spur 348
Type: 96-inch parallel relief of 20,600-feet of 96-inch diameter pipeline
Status: Design initiated in 1995
Revisions to Final Design made in December 1997
Design 76% complete
Easement acquisition to begin by January 2002
Anticipated construction award in 2005

Name: Elm Fork Relief Interceptor, EF-6
Location: Cities of Farmers Branch and Dallas
North of Spur 348 to I-635
Type: 72-inch parallel relief of 12,900-feet 72-inch diameter pipeline
Status: Design initiated in August 1998
Design 46% complete
Easement acquisition to begin in 2002
Anticipated construction award by 2005

MOUNTAIN CREEK INTERCEPTOR SYSTEM

Name: Kirby Creek Outfall Interceptor
Location: City of Grand Prairie
From Fish Creek to Great Southwest Parkway
Type: Preliminary Engineering Study and Environmental Assessment of 20,500-feet of 12-
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Preliminary Engineering Study completed August 1999
Environmental Assessment completed by March 2001
Preliminary Engineering and Environmental Work is 94% complete
Final Design initiated in late 2002
Final Design is 10% complete
Easement acquisition to begin by fall of 2003
Anticipated construction award in 2004

Name: Mountain Creek Kirby Creek II Rehabilitation
Location: City of Grand Prairie
Upstream of LS4 along Mountain Creek Lake
Type: Rehab 4,650-feet of 30-inch diameter pipeline
Status: Design initiated in 2001
Design 100% complete
Easement acquisition in progress
Anticipated construction award by December 2003

WEST FORK INTERCEPTOR SYSTEM

Name: West Fork Interceptor, WF-1
Location: City of Grand Prairie
From the Plant to Bear Creek System junction
Type/Size: 84-inch parallel relief of 17,800-feet of 84-inch pipeline
Status: Design Contract awarded in June 1998
Preliminary Engineering Study completed 2001
Environmental Assessment completed
Evaluation of TXDOT conflicts and pipeline reroutes completed by February 2001
Final Design is 63% complete
Easement acquisition started December 2001
Anticipated construction award in 2004

Name: West Fork Interceptor, WF-3
Location: City of Grand Prairie
Johnson Creek from junction with West Fork to Hwy. 360
Type/Size: Preliminary Evaluation of 24-inch parallel relief of 11,050-feet of 30-inch line
Status: Preliminary Design Contract awarded in June 1998
Environmental Assessment completed by December 2001
Final Design Contract awarded in June 2003
Final Design is <5% complete
Anticipated in July 2004

Name: West Fork Interceptor, WF-11A
Location: City of Grand Prairie
From Johnson Creek to Roy Orr Blvd.
Type: Preliminary Engineering Study, Environmental Assessment, and Final Design of 72-inch diameter parallel relief 6,900-feet of 60-inch diameter line
Status: Design awarded in August 1998
Draft Environmental Assessment completed March 2000
Work is 31% complete
Easement acquisition begun in 2000
Anticipated construction award in 2004

Name: West Fork Relief Interceptor, WF-11B
Location: Cities of Arlington and Grand Prairie
From Roy Orr Boulevard to west of West Fork of Trinity River
Type: Preliminary Engineering Study, Environmental Assessment, and Final Design of 84-inch diameter parallel relief of 16,000-feet of 66-inch to 84-inch diameter line
Status: Design contract awarded in June 1998
Preliminary engineering and environmental assessment completed March 2000
Engineering evaluations & negotiation of pipeline relocation, November 1999 to December 2001
Revised draft environmental assessment completed in April 2001
Revised pipeline alignment in summer 2001
Additional Archeological Investigations completed in June 2003
Design 76% complete
Easement acquisition begun in late 2001
Anticipated construction award in 2004

Name: West Fork Interceptor, Johnson Branch Trunk Relocation @ Hwy 30
Location: City of Grand Prairie
Type: Design and Construction Phase Engineering
Status: Design awarded in early 2003
Draft Environmental Assessment completed
Design is <5% complete
Anticipated construction by December 2003

PLANT AND OTHER SYSTEM PROJECTS

Name: Pump Stations 6, 7, and 13 Evaluation
Type: Planning, Design, and Testing
Status: Contract awarded in early 2003
Work is approximately 47% complete

Name: Class A Bio-Solids Stabilization
Type: Design Report and Construction Services
Status: Contract awarded in early 2003
Work is approximately 9% complete

Name: FY2003 Interceptor I/I Proration
Type: IDM and I/I Flow Adjustment
Status: Contract awarded in 2003
Work is approximately <5% complete

ACTIVE CONSTRUCTION PROJECTS- (as of July 2003)

PIPELINE PROJECTS

Name: Little Bear Creek CO-1/GV-4
Location: City of Hurst
Type: East of Precinct Road, north of SP RR/West of Hwy 121& north of Glade
Rehabilitation of 1500-feet of 12-inch diameter line/200-foot line repair
Status: Project added to BC Rehab. in 1998
Final Design completed in June 2001
Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction is approximately 99% complete

Name: Bear Creek Rehab., Section II & III
Location: Cities of Irving and Ft. Worth
Type: South of DFW International Airport
Rehabilitation of 9,000-feet of 39-inch diameter line
Status: Preliminary Design Study initiated in February 1996
Engineering Evaluation completed in January 1997
Design initiated May 1997
Final Design completed in June 2001
Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction is approximately 99% complete

Name: West Fork Interceptor, Johnson Branch Trunk Relocation @ Hwy 30
Location: City of Grand Prairie
Type: Design and Construction Phase Engineering
Status: Design awarded in early 2003
Draft Environmental Assessment completed
Design is <5% complete
Anticipated construction by December 2003

PLANT AND OTHER SYSTEM PROJECTS

Name: Pump Stations 6, 7, and 13 Evaluation
Type: Planning, Design, and Testing
Status: Contract awarded in early 2003
Work is approximately 47% complete

Name: Class A Bio-Solids Stabilization
Type: Design Report and Construction Services
Status: Contract awarded in early 2003
Work is approximately 9% complete

Name: FY2003 Interceptor I/I Proration
Type: IDM and I/I Flow Adjustment
Status: Contract awarded in 2003
Work is approximately <5% complete

ACTIVE CONSTRUCTION PROJECTS- (as of July 2003)

PIPELINE PROJECTS

Name: Little Bear Creek CO-1/GV-4
Location: City of Hurst
East of Precinct Road, north of SP RR/West of Hwy 121& north of Glade
Type: Rehabilitation of 1500-feet of 12-inch diameter line/200-foot line repair
Status: Project added to BC Rehab. in 1998
Final Design completed in June 2001
Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction is approximately 99% complete

Name: Bear Creek Rehab., Section II & III
Location: Cities of Irving and Ft. Worth
South of DFW International Airport
Type: Rehabilitation of 9,000 feet of 39-inch diameter line
Status: Preliminary Design Study initiated in February 1996
Engineering Evaluation completed in January 1997
Design initiated May 1997
Final Design completed in June 2001
Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction is approximately 99% complete

Name: Elm Fork Interceptor, MS 15.0E
Location: City of Carrollton
South of I-635 and north of Luna Road
Type/Size: Re-build meter station
Status: Design completed April 2002
Construction begun in May 2003
Construction 95% complete

Name: Mountain Creek Interceptor, MC-4A
Location: Cities of Grand Prairie and Arlington
Bowman Branch, South Fork Fish Creek to Loyd Park
Type: Construct new lift station, 10,000-foot of twin 24-inch diameter force main to replace existing 18-inch force main, and build 7,500-feet of 54-inch diameter pipeline to replace existing 24-inch diameter gravity pipeline
Status: Environmental Assessment completed in April 1999
Design Contract awarded in August 1999
Evaluate possible reroute options in South Grand Prairie due to land development
Modify design for two 24-inch diameter force main and 54-inch gravity pipeline in July 2001
Easement acquisition begun in October 2000
USACE environmental data and reports to be completed by September 2001
Easement acquisition to be completed by October 2002
Construction contract awarded in June 2002
Construction <91% complete
Construction to be completed by December 2003

Name: Mountain Creek Interceptor, MC-4B
Location: Cities of Grand Prairie, Arlington, and Mansfield
Loyd Park to Holland Road
Type: 16,000-feet of 48-inch relief pipeline replacement of 24-inch gravity pipeline
Status: Environmental Assessment completed in April 1999
Design Contract awarded in August 1999
Final design to begin in September 2000
Easement acquisition to begin March 2001
USACE environmental data and reports to be completed by September 2001
Easement acquisition completed by August 2002
Construction contract awarded in June 2002
Construction <99% complete
Construction to be completed by July 2003

Name: West Fork Relief Interceptor, WF-G, Phase I
Location: City of Grand Prairie
From 3,900-feet west of Bear Creek System junction to Belt Line Road
Type: 84-inch parallel relief of 2,200-feet of 45-inch & 66-inch lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design 100% complete in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Construction contract awarded in April 2001
Construction is approximately 99% complete
Construction to be completed by September 2002

Name: West Fork Relief Interceptor, WF-G Phase II and I-A-1 Erosion
Location: City of Grand Prairie
From Bear Creek System junction approximately 3,900-feet upstream toward Belt Line Road
Type: 84-inch parallel relief of 3,900-feet of 45-inch & 66-inch lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design completed in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Design is 100% complete
Construction contract awarded in March 2003
Construction 52% complete

Name: West Fork Relief Interceptor, WF-C, N, B, P, & M
Location: City of Arlington
From West of Hwy. 360 to west of Collins Street
Type: 72-inch parallel relief of existing 54-inch & 60-inch lines
Status: Design initiated in 1996
Design completed in December 1998
EA completed by December 1998
Construction contract awarded in December 1998
Construction 97% complete
Construction to be completed by August 2003

PLANT PROJECTS

Name: Stage V Odor Improvements
Location: Plant
Type: Weir Cover, Collection Piping, and Bio-Filter
Status: Contract approved in December 2001
Construction to be completed by August 2003

Name: Bar Screening Improvements, Phases I and II
Location: PS 6/6A
Type: Plant
Status: Design of Phase I is 100% complete
Design of Phase II is 100% complete
Construction contract awarded in June 2002
Construction <68% complete
Construction to be completed by February 2004

Name: Clarifier Piping Improvements
Location: Plant
Type: Evaluation and Piping Rehabilitation
Status: Contract to be approved in August 2002
Construction to be completed by August 2003

Name: West Fork Relief Interceptor, WF-G Phase II and I-A-1 Erosion
Location: City of Grand Prairie
From Bear Creek System junction approximately 3,900-feet upstream toward Belt Line Road
Type: 84-inch parallel relief of 3,900-feet of 45-inch & 66-inch lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design completed in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Design is 100% complete
Construction contract awarded in March 2003
Construction 52% complete

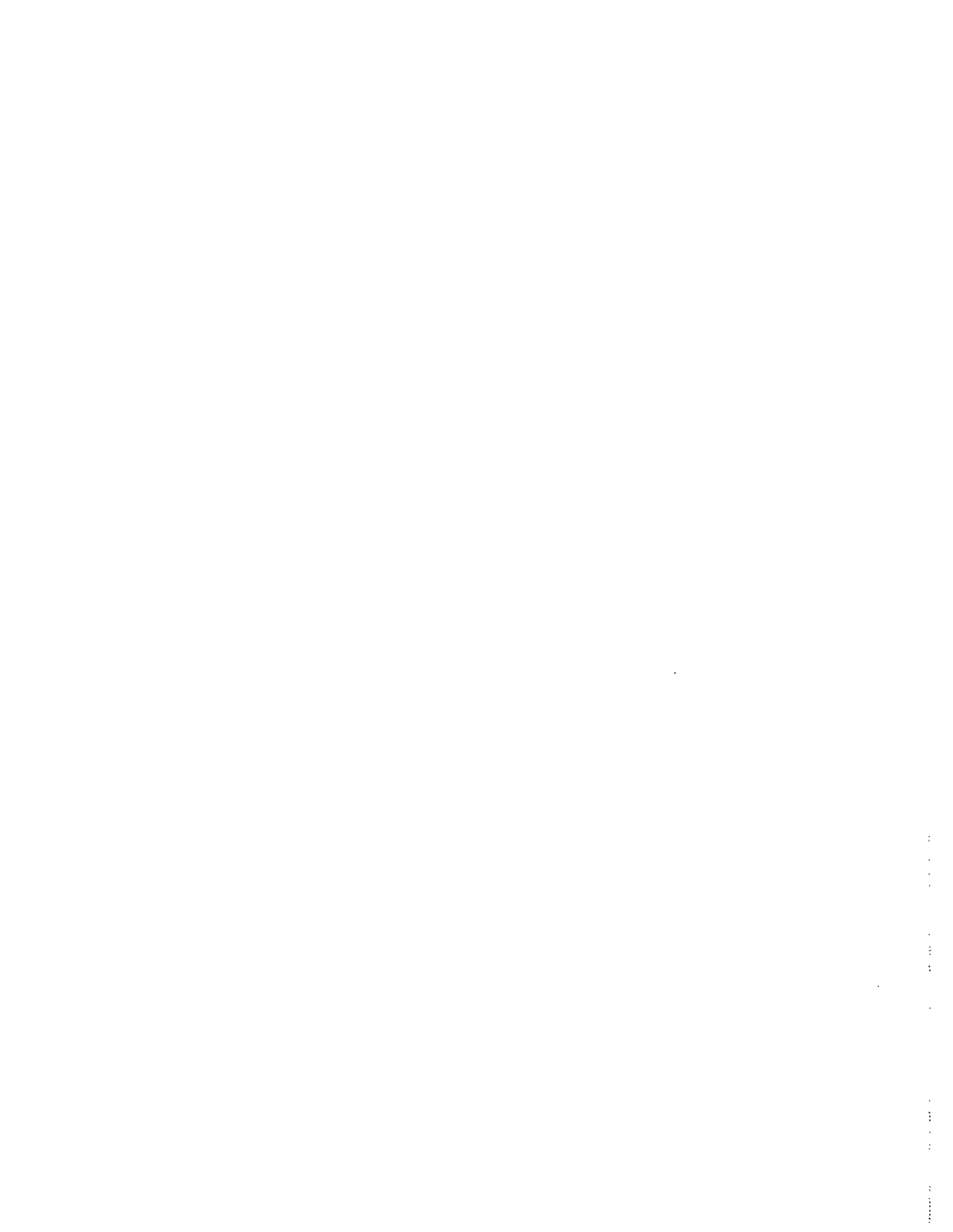
Name: West Fork Relief Interceptor, WF-C, N, B, P, & M
Location: City of Arlington
From West of Hwy. 360 to west of Collins Street
Type: 72-inch parallel relief of existing 54-inch & 60-inch lines
Status: Design initiated in 1996
Design completed in December 1998
EA completed by December 1998
Construction contract awarded in December 1998
Construction 97% complete
Construction to be completed by August 2003

PLANT PROJECTS

Name: Stage V Odor Improvements
Location: Plant
Type: Weir Cover, Collection Piping, and Bio-Filter
Status: Contract approved in December 2001
Construction to be completed by August 2003

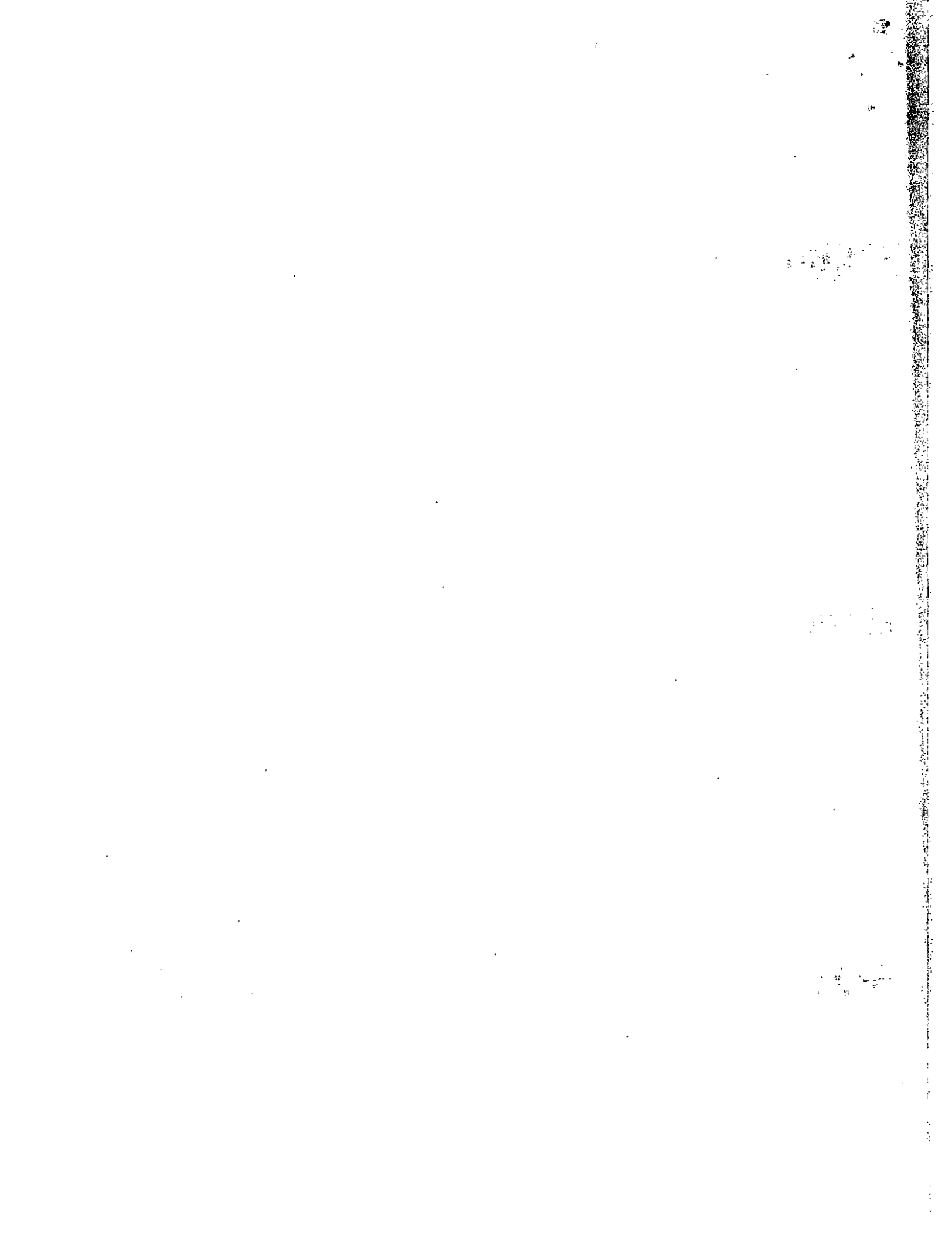
Name: Bar Screening Improvements, Phases I and II
Location: PS 6/6A
Type: Plant
Status: Design of Phase I is 100% complete
Design of Phase II is 100% complete
Construction contract awarded in June 2002
Construction 68% complete
Construction to be completed by February 2004

Name: Clarifier Piping Improvements
Location: Plant
Type: Evaluation and Piping Rehabilitation
Status: Contract to be approved in August 2002
Construction to be completed by August 2003



List of Construction Project Improvements Completed since August 2002 Report

1. Bear Creek Interceptor Evaluation, BC-4
2. Harwood Road SS Maintenance
3. Gravity Sand Filter Improvements





HANDOUT AGENDA ITEM VI

DATE: August 12, 2003

FILE: 3110.102/3110.800

TO: MEMBER, ADVISORY COMMITTEE
CENTRAL REGIONAL WASTEWATER SYSTEM

RE: Central Regional Wastewater System
Proposed FY 2004 Budget

Authority management annually prepares a proposed budget of anticipated revenues and expenditures of the Central Regional Wastewater System in accordance with the fiscal provisions of our Wastewater Services Contract for the ensuing fiscal year. We are pleased to present to you the proposed FY 2004 Budget for the annual operating funds of the Central System. This budget is relevant to the time period for December 1, 2003 through November 30, 2004.

This budget reflects the proposed financial activities of operating and debt service funds, provides for our continuing ability to deliver high quality, efficient wastewater service to our Contracting Parties, and will continue to position the Central System for increased growth, regulatory changes and maximized internal operational productivity measures to result in cost efficient wastewater treatment. The Authority will continue the efforts established in 2002 to ensure the security and integrity of our Central System and the reliability of our services. Therefore, the budget reflects the Authority's continued commitment to protect capital investments, keep operational expenses to a minimum and to maximize the process of increasing operational efficiency throughout the Authority. A brief overview of Central's financial picture for FY 2004 will reveal a slight decrease in overall System expenditures, with only those increases in operating accounts required to meet contractual obligations for our treatment of wastewater, as compared to FY 2003 projected requirements. The operation and maintenance expenditures were developed based on transporting and treating an average daily flow of 151.208 MGD. The scheduled debt service requirements are slightly lower than the current budget, primarily due to the refunding of the Series 1993 Bonds in early 2003, and are based on principal and interest payments due on outstanding Central Regional Wastewater System Revenue Bonds.

The anticipated expenditures in FY 2004 total \$57,839,230, an approximate 0.4% decrease below the \$58,077,710 predicted for the current fiscal year. The projected costs for salaries and related benefits, laboratory supplies, engineering services, telephone, Project insurance payments, power usage, collection system maintenance repairs, and equipment rental essential for delivering services during the year have increased \$1,576,670 above the predicted FY 2003 Budget. The increase in the proposed FY 2004 Budget for operating accounts is

Expenses

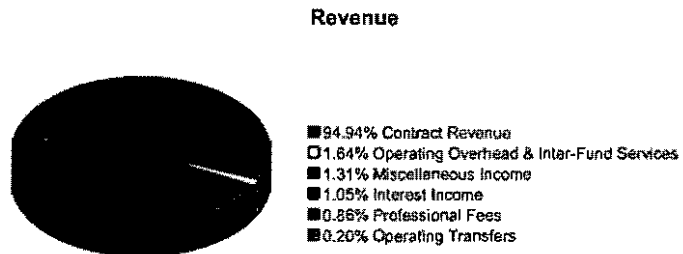


- 54.63% Debt Service and Miscellaneous
- 23.40% Other Services and Charges
- 15.20% Personal Services
- 5.49% Supplies
- 1.28% Capital Outlays



partly offset by a \$1,184,390 reduction in service cost for process chemicals and capital outlays, as well as in other operating category accounts due to process modifications and, as in previous year's efforts, by holding the line on controllable costs. During this weak economic climate, Authority management continues our commitment of aggressive decisions to improve the effectiveness and efficiency of our business services and move toward deeper cost reductions, as close scrutiny was given to all anticipated and discretionary expenditures. Along with decreases in some predicted operating accounts, there is a decrease in programmed debt payments of \$630,760, resulting in an overall projected decrease of \$238,480 for FY 2004 expenditures below the FY 2003 Budget. As is shown in the following table, and despite additional power costs not foreseen one year ago, the predicted gross and net unit costs/1000 gallons are slightly less than last year's projections for the coming FY 2004.

Anticipated FY 2004 revenues from the System's Contracting Parties, totaling \$55,193,770, reflects a 1.06% increase above the FY 2003 projected revenue requirement of \$54,613,900. The resulting predicted gross and net unit costs of service for wastewater transportation and treatment throughout FY 2004 are 1.3% below and 0.1% over the respective predicted FY 2003 budgeted unit costs as reflected in the following table:



Unit	Cost/1000 gallons		
	Predicted FY 2004	Budgeted FY 2003	Last Year's Projections For FY 2004
Gross (based on total cost)	1.045	1.059	1.062
Net (cost to Contracting Parties)	0.997	0.996	1.009

The following exhibits are presented to provide flow allocations, a summary of budget objectives and detailed information about the five major budget categories, as well as additional quantitative and statistical information for your review:

- Exhibit A - Flow Allocations
- Exhibit B - Budget Objectives
- Exhibit C - Budget at a Glance
- Exhibit D - Personal Services
- Exhibit E - Supplies
- Exhibit F - Other Services and Charges
- Exhibit G - Capital Outlays
- Exhibit H - Debt Service and Miscellaneous
- Exhibit I - Historical System Data

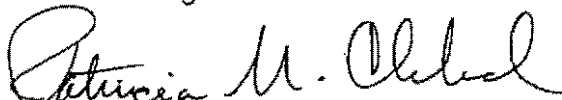


August 12, 2003
3110.102/3110.800
MEMBER, ADVISORY COMMITTEE
Page 3

Thursday

The proposed FY 2004 Budget (Exhibit K) is presented for your review and consideration and will be discussed in the August 12, 2003 Advisory Committee meeting. Additionally, a Budget Workshop will be held in the upstairs conference room of the Administrative Building at the Central Regional Wastewater System on ~~Tuesday~~ Thursday August 28, 2003, beginning at 10:00 a.m. for those representatives and city staff members who do not attend the Advisory Committee meeting or desire to discuss the proposed budget in more detail. A later Advisory Committee meeting is scheduled for Tuesday, September 16th, at which time the committee will be requested to recommend the proposed FY 2004 Budget for adoption by the Authority's Board of Directors.

If there are any questions concerning the proposed budget or the workshop, please contact the Northern Region office.



PATRICIA M. CLEVELAND
Manager, Operations
Northern Region

PMC/rrc

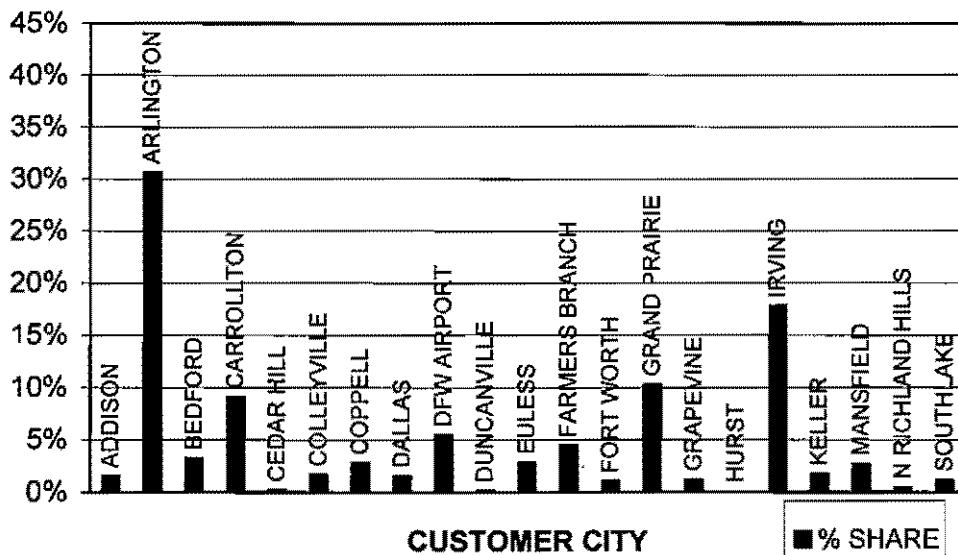
Attachments

- c: Danny F. Vance, General Manager
- Warren N. Brewer, Regional Manager, Northern Region
- Bill Tatum, Project Manager, Central Regional Wastewater System

**EXHIBIT A
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2004 FLOW ALLOCATIONS**

CITY	FY 2003	FY 2003	FY 2004	FY 2004
	FLOW (MGD)	% ALLOCATION	FLOW (MGD)	% ALLOCATION
ADDISON	2.280	1.518%	2.280	1.508%
ARLINGTON	45.460	30.276%	46.370	30.666%
BEDFORD	4.700	3.130%	4.900	3.241%
CARROLLTON	12.000	7.992%	13.700	9.060%
CEDAR HILL	0.300	0.200%	0.324	0.214%
COLLEYVILLE	2.527	1.683%	2.550	1.686%
COPELL	3.900	2.597%	4.200	2.778%
DALLAS	8.500	1.539%	2.310	1.528%
DFW AIRPORT	2.310	5.661%	8.250	5.456%
DUNCANVILLE	0.200	0.133%	0.200	0.132%
EULESS	4.275	2.847%	4.275	2.827%
FARMERS BRANCH	6.700	4.462%	6.700	4.431%
FORT WORTH	1.368	0.911%	1.580	1.045%
GRAND PRAIRIE	16.690	11.116%	15.512	10.259%
GRAPEVINE	1.920	1.279%	1.811	1.198%
HURST	0.202	0.135%	0.207	0.137%
IRVING	28.750	19.148%	26.900	17.790%
KELLER	2.415	1.608%	2.654	1.755%
MANSFIELD	3.250	2.165%	4.125	2.728%
N RICHLAND HILLS	0.703	0.468%	0.660	0.437%
SOUTHLAKE	1.700	1.132%	1.700	1.124%
TOTAL	150.150	100.000%	151.208	100.000%

BUDGETED FY 2004 FLOWS



**EXHIBIT B
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2004**

DESCRIPTION OF THE PROJECT

The Trinity River Authority's Central Regional Wastewater System is a large regional wastewater system located on 495 acres adjacent to the West Fork of the Trinity River and is currently serving approximately one million customers in Dallas, Tarrant, Ellis, Johnson and Denton counties of north central Texas. The service area encompasses all or portions of 20 cities in the Dallas/Fort Worth metroplex, as well as the Dallas/Fort Worth International Airport. The Central Regional Wastewater System treatment plant is an advanced secondary facility currently permitted to treat 162 million gallons per day (MGD). This System consists of an extensive regional network of interceptors, pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for golf course irrigation and lake level management under the first major urban reuse program in Texas.

GOALS AND OBJECTIVES FOR FY 2004

The Authority's objectives are reflected in the recommended Annual Operating Budget for Central Regional Wastewater System FY 2004. The major goals and objectives are:

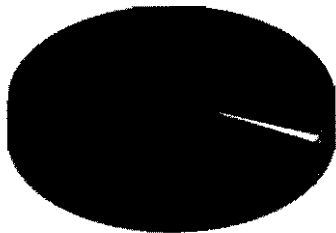
- Operate and adequately protect the Central System's capital investments by proper maintenance, which includes a 162 MGD treatment plant, over 200 miles of interceptors, four lift stations, 138 metering stations, an analytical laboratory, and the DCURD water reuse project.
- Provide wastewater transportation and treatment services for a projected flow contribution of 151.208 MGD.
- Continue operating at efficient levels and minimize unit costs while enhancing treatment capacity and meeting all regulatory requirements.
- Continue Authority efforts to reduce overall wet-weather flow impacts to the System by installing new pipelines for capacity, rehabilitating existing collection system infrastructure and plant facilities as identified in the first and second phases of the 1998 Five Year Plan; funded by the Series 1998A and 2000 Revenue Bonds, and the third phase funded by the Series 2001 Bonds.
- Operate and maintain odor control facilities consistent with the Odor Control Abatement Master Plan and implement additional odor improvements in the primary treatment areas to reduce risk of adjacent area odors.
- Provide Contracting Parties laboratory testing and pretreatment program capabilities and services on a revenue-supported basis.
- Continue 100% land application of System biosolids under a five-year agreement.
- Respond in a timely fashion to Customer Cities' requests for assistance.



EXHIBIT C
FISCAL YEAR 2004 BUDGET AT A GLANCE
CENTRAL REGIONAL WASTEWATER SYSTEM
PROPOSED OPERATION AND MAINTENANCE BUDGET

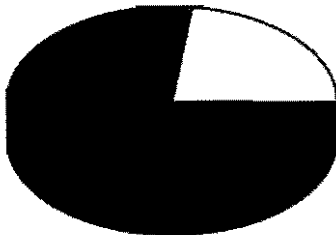
Revenue	\$58,134,240
Expenses	\$57,839,230
Variance (Retained for FY 2005 Debt Requirements)	\$295,010

Revenue



- 94.94% Contract Revenue
- 1.64% Operating Overhead & Inter-Fund Services
- 1.31% Miscellaneous Income
- 1.05% Interest Income
- 0.86% Professional Fees
- 0.20% Operating Transfers

Expenses



- 54.63% Debt Service and Miscellaneous
- 23.40% Other Services and Charges
- 15.20% Personal Services
- 5.49% Supplies
- 1.28% Capital Outlays

FISCAL YEAR 2004
FUND SUMMARY

Revenue Summary

Contract Revenue	\$55,193,770
Operating Overhead and Inter-Fund Services	\$949,890
Professional Fees	\$500,000
Interest Income	\$609,600
Operating Transfers	\$118,000
Miscellaneous Income	\$762,980
Total Sources of Funds	\$58,134,240

Expenditure Summary

Personal Services	\$8,791,200
Supplies	\$3,173,040
Other Services and Charges	\$13,535,730
Capital Outlays	\$742,900
Debt Service and Miscellaneous	\$31,596,360
Total Application of Funds	\$57,839,230

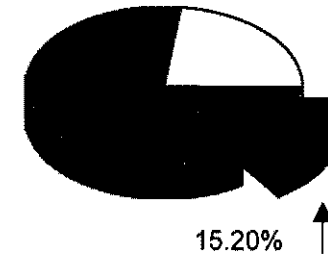


**EXHIBIT D
CENTRAL REGIONAL WASTEWATER SYSTEM**

**PERSONAL SERVICES
FY 2004**

- Proposed FY 2004 of \$8,791,200 vs Current FY 2003 of \$8,399,720 = Variance (+) \$391,480 or + 4.7%.
- The budget category of Personal Services includes seven line item accounts. As compared with present budget, one line item account remained unchanged (Unemployment Compensation), one decreased (-) \$1,400 (Education), and six increased (+) \$392,880 (Salaries, FICA, Health/Life Insurance, Pension, and Employee Service Recognition).
- The anticipated increase in salaries and related benefit costs is partly due to usual provisions for forecast salary adjustments based on merit, varying with each individual employee. Also, provisions are included for cost increases in the Authority's Health Insurance expenses due to claims experience that has resulted in premium increases.
- Authority management believes that the Central facility can be operated efficiently and maintain adequate margins of safety with one Project Manager, an Operations/Maintenance staff of 97, plus 53 Technical Services/Pretreatment staff, Administrative staff of 9, and 7 Purchasing/Warehouse staff.

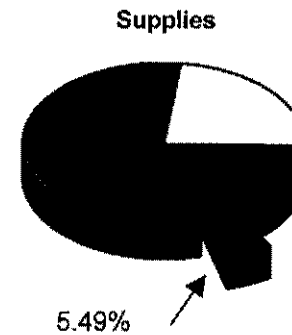
Personal Services



Personal Services expenditures include those costs associated with the staffing required to operate, maintain, and administer the treatment plant, biosolids program, laboratory, pretreatment program, collection system, and meter stations. Significant line item accounts in this category of expenditures include salaries, payroll taxes, health insurance, and pension.

**EXHIBIT E
CENTRAL REGIONAL WASTEWATER SYSTEM
SUPPLIES
FY 2004**

- Proposed FY 2004 of \$ 3,173,040 vs Current FY 2003 of \$3,556,400 = Variance (-) \$383,360 or (-) 10.8%.
- The budget category of Supplies includes eight line items accounts. As compared with the present budget, seven decreased (-) \$400,960 (Office Supplies, Dues and Subscriptions, Certification Fees, Maintenance and Operating Supplies, Process Chemicals, Fuel and Computer Software, Licenses and Instrument Supplies), and the remaining line item account increased (+) \$17,600 (Lab Supplies).
- Over 67% of the expenditures for Supplies is for the purchase of process chemicals. The decrease of \$379,130 in anticipated process chemical expenditures is mainly associated with a modification in process use of lime and polymer necessary for solids thickening and dewatering.
- Included in the Computer Software, Licenses and Instrument Supplies account is the Project's second year share of an Authority-wide Enterprise Resource Planning software which integrated financial, payroll, human resources, budget reporting, asset management, and purchasing into one integrated system. The cost to purchase and implement began in FY 2003 budgeting process for phasing over a three-year period (2003-2005).



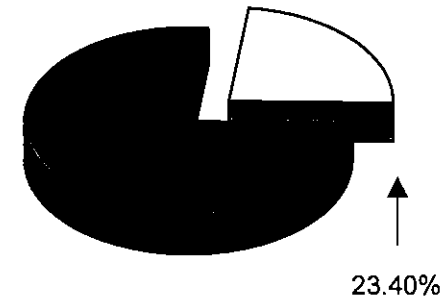
Approximately 67% of the expenditures in this category are for the purchase of process chemicals necessary for sludge thickening, dewatering and stabilization, odor control, effluent disinfection and dechlorination, and other treatment processes.



**EXHIBIT F
CENTRAL REGIONAL WASTEWATER SYSTEM
OTHER SERVICES AND CHARGES
FY 2004**

- Proposed FY 2004 of \$13,535,730 vs Current FY 2003 of \$12,785,680 = Variance (+) \$750,050 or + 5.9%.
- The budget category of Other Services and Charges includes 22 line item accounts. As compared with the present budget, five remained unchanged, (Audit, Legal, Postage, Travel, and Laundry and Uniforms), eleven line item accounts decreased (-) \$416,140, and six increased (+) \$1,166,190.
- The decreases in this category are due to reductions in the Authority's computer network, process SCADA, maintenance management system and Lawson support services, professional services, printing and binding, employee training, water usage, repair and maintenance of equipment, plant and buildings, vehicles and electrical systems, off-site biosolids land application and administrative overhead costs.
- This category of expenditures includes increases in engineering services, telephone, Project insurance payments, power usage, repair and maintenance of collection system, and equipment rental. Approximately 42% or \$5,639,960 of the expenditures in this category is for power usage. This has increased 23.9% or (+) \$1,086,480 due to higher estimated flows, as well as increased costs of a new Authority-wide energy contract for the time period of June 1, 2003 through May 31, 2004.

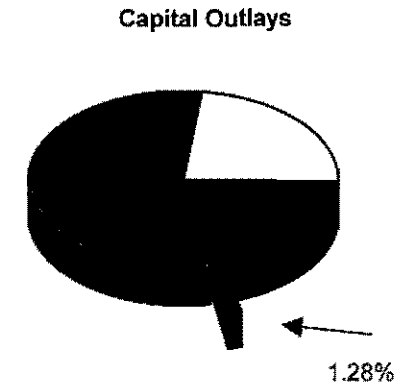
Other Services and Charges



This category of expenditures relates to the indirect costs associated with the collection and treatment system, vehicles, and off-site biosolids disposal.

**EXHIBIT G
CENTRAL REGIONAL WASTEWATER SYSTEM
CAPITAL OUTLAYS
FY 2004**

- Proposed FY 2004 of \$742,900 vs. Current FY 2003 of \$1,108,790 = Variance (-) \$ 365,890 or (-) 33.00%.
- The Capital Outlays category can vary significantly from year to year as major equipment is only purchased on an annual as needed basis.
- This category consists of 94.5% or \$702,300 of capital expenditures for replacement items and 5.5% or \$40,600 of new capital equipment items proposed for purchase in FY 2004.
- Approximately 90% or \$629,000 of the proposed Capital Outlay items for replacement are for two trucks, the heavy equipment items of a tractor hauling truck, track loader and pipeline television inspection unit with trailer, which all have excessive mileage and wear due to age, and the replacement of an analytical laboratory gas chromatograph/mass spectrophotometer (GC/MS) for identifying organic compounds. The primary expenses under the category of new items are for maintaining sludge dewatering equipment, a hydraulic dump truck bed for collection system maintenance program and one new utility camper cover for the pretreatment truck.
- A list of all the projected capital expenditures is on pages 28 and 29 of the attached proposed FY 2004 Budget.



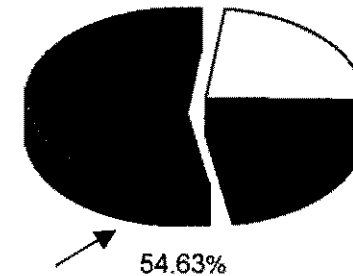
The category of Capital Outlays consists of the purchase of machinery and equipment to achieve a new purpose or replace existing equipment.



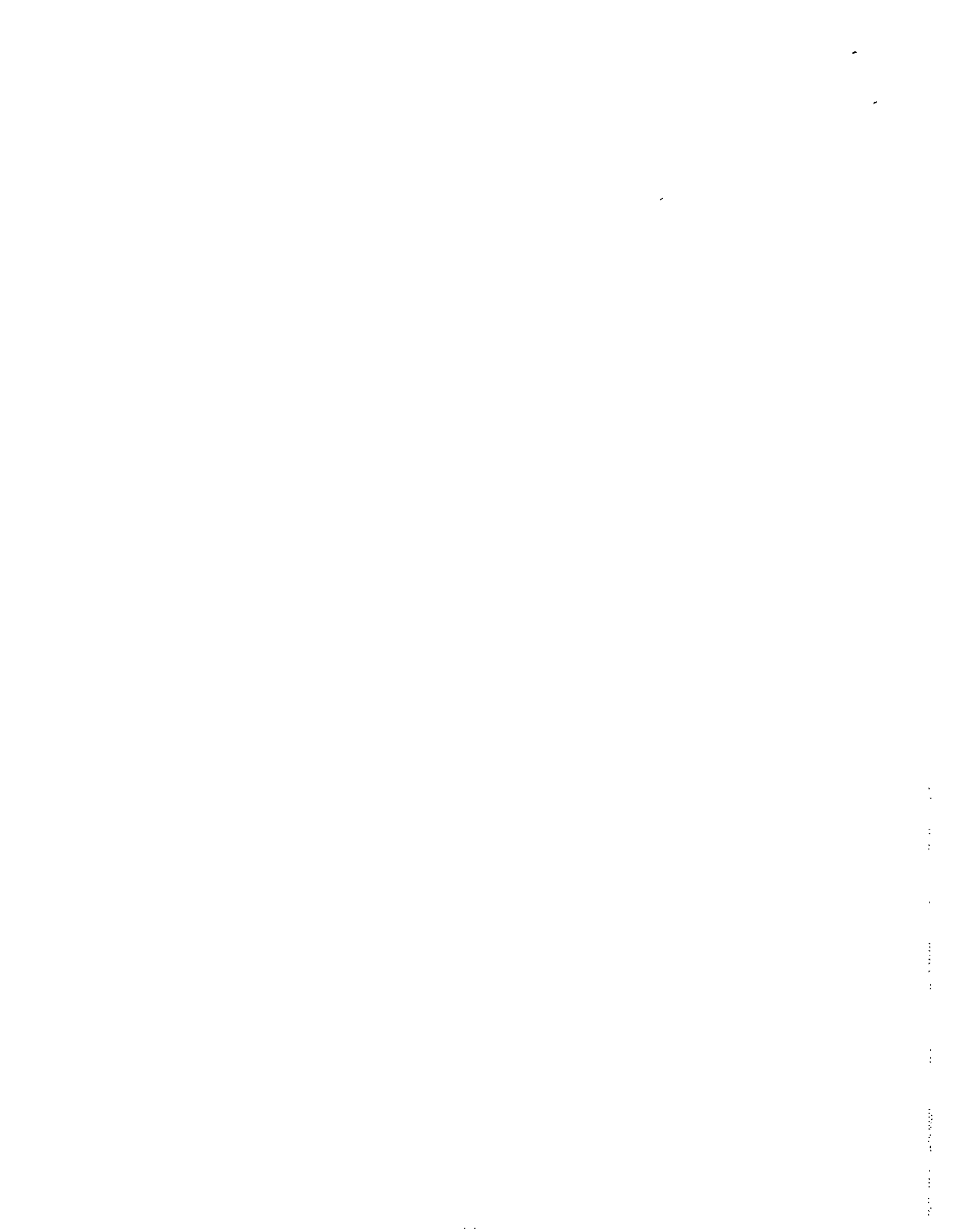
**EXHIBIT H
CENTRAL REGIONAL WASTEWATER SYSTEM
DEBT SERVICES AND MISCELLANEOUS
FY 2004**

- Proposed FY 2004 of \$31,596,360 vs. Current FY 2003 of \$32,227,120 = Variance (-) \$630,760 or (-) 2.0%.
- The amount budgeted for Debt Service reflects the fixed and established schedules based on outstanding debt of the Central System.
- In June 1995, the Authority issued \$43,515,000 in System Improvement Bonds to finance the design and construction of various system improvements identified in the 5 Year Plan.
- In July 1998, the Authority issued \$50,845,000 in System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects. These bonds were improvement projects. These bonds were purchased by the Texas Water Development Board.
- In September 1998, the Authority issued \$66,950,000 in System Improvement and Refunding Bonds, with \$61,375,000 being refunded, producing a savings of \$2.7 million through the life of the bond.
- In July 2001, The Authority issued \$88,225,000 in System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects. These bonds were purchased by the Texas Water Development Board.
- In January 2003, the Authority issued \$135,885,000 in Revenue Refunding Bonds to retire the Series 1993 Bonds, producing a savings of \$ 11,731,109 through the life of the bonds.
- The decrease in debt expenditures over the present FY 2003 Budget is due to the overall decrease in scheduled debt service payments in FY 2004.

Debt Services and Miscellaneous

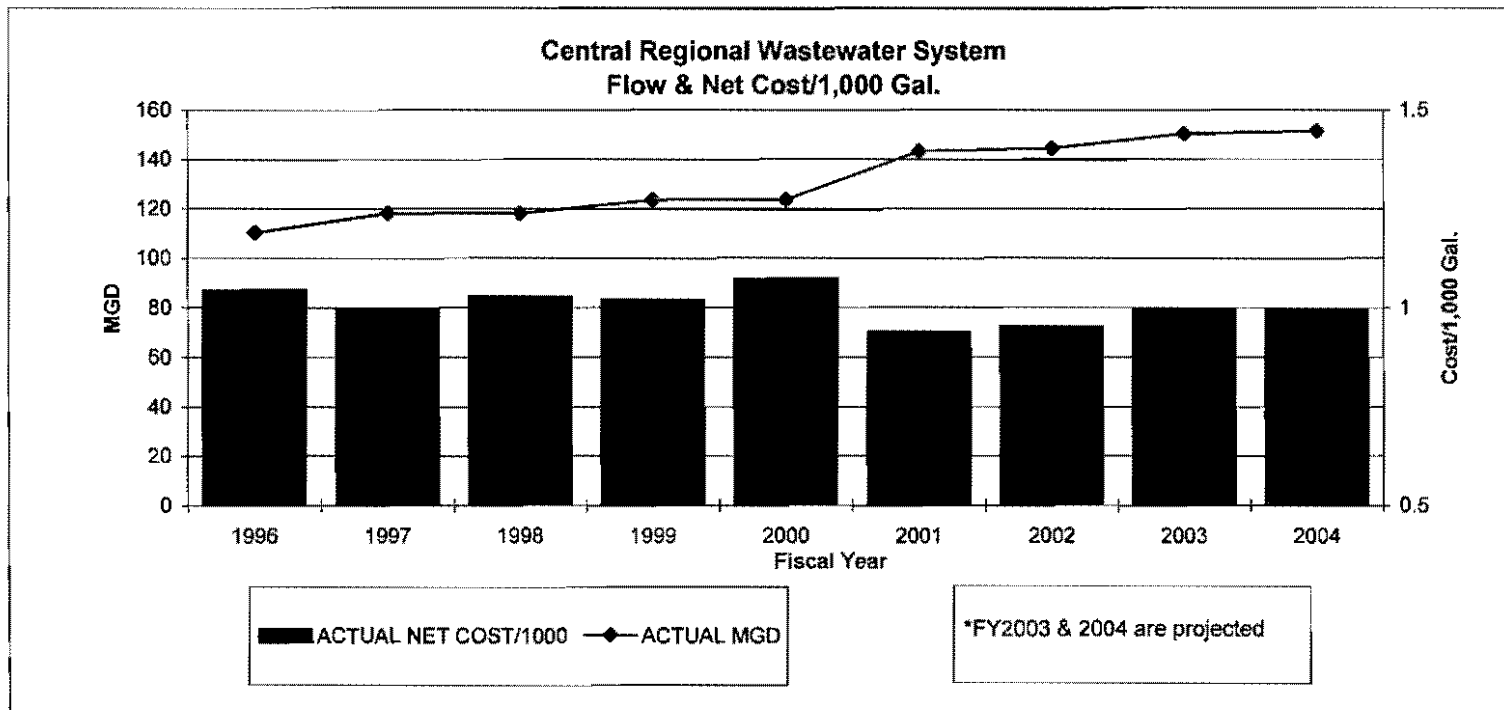


Debt Services and Miscellaneous includes the annual principal and interest payments due on the System bonds and the associated paying agent fees. Typically, annual principal and interest payments are structured to provide relatively level debt service requirements from year to year until such time as additional bonds are issued.



**EXHIBIT I
CENTRAL REGIONAL WASTEWATER SYSTEM
CURRENT AND HISTORICAL SYSTEM FINANCIAL AND FLOW DATA**

FISCAL YEAR	BUDGETED EXPENDITURES	ACTUAL EXPENDITURES	BUDGETED REVENUE	ACTUAL REVENUE	PROJECTED FLOW	ACTUAL FLOW	PROJECTED NET COST/1,000 GAL.	ACTUAL COST/1,000 GAL.
1996	\$47,693,245	\$46,327,057	\$44,889,460	\$42,064,179	114.14 MGD	110.08 MGD	\$1.0745	\$1.0440
1997	\$48,358,525	\$47,401,825	\$45,233,590	\$42,891,464	116.00 MGD	118.01 MGD	\$1.0683	\$0.9958
1998	\$47,014,070	\$46,752,148	\$43,601,935	\$43,673,073	118.28 MGD	118.04 MGD	\$1.0099	\$1.0136
1999	\$50,390,530	\$50,691,945	\$45,859,710	\$45,808,213	123.31 MGD	120.64 MGD	\$1.0189	\$1.0403
2000	\$51,066,490	\$51,361,749	\$47,812,790	\$48,442,041	127.41 MGD	123.47 MGD	\$1.0253	\$1.0720
2001	\$54,509,150	\$56,087,461	\$49,187,660	\$51,953,155	143.13 MGD	146.49 MGD	\$0.9415	\$0.9716
2002	\$54,352,130	\$53,339,201	\$50,421,660	\$50,188,032	145.52 MGD	144.22 MGD	\$0.9493	\$0.9533
2003	\$58,077,710	*	\$54,613,900	*	150.15 MGD	*	\$0.9965	*
2004	\$57,839,230	*	\$55,193,770	*	151.21 MGD	*	\$0.9973	*





**EXHIBIT J
CENTRAL REGIONAL WASTEWATER SYSTEM
PROJECTED FUTURE COST OF SERVICE**

FISCAL YR. ENDING NOV. 30	PROJECTED FLOW (MGD)	GROSS COST PER 1,000 GAL.	NET COST PER 1,000 GAL.
2004	151.208	\$1.045	\$0.997
2005	154.008	\$1.051	\$0.998
2006	156.808	\$1.146	\$1.089
2007	159.608	\$1.147	\$1.090
2008	162.408	\$1.225	\$1.163
2009	165.208	\$1.235	\$1.173

(1) NET COST IS PROJECTED TO BE 95% OF GROSS COST BASED UPON HISTORICAL TRENDS FOR FY 2005 THROUGH FY 2009.

(2) UNIT COST CALCULATION FOR FY 2005 THROUGH FY 2009 INCLUDES PROJECTED ADDITIONAL DEBT TO FINANCE PLANT AND COLLECTION SYSTEM IMPROVEMENTS.

EXHIBIT K

TRINITY RIVER AUTHORITY OF TEXAS PROPOSED O&M BUDGET - FISCAL YEAR 2004 CENTRAL REGIONAL WASTEWATER SYSTEM ENTERPRISE FUND

Description of the Project

The Central Regional Wastewater System (CRWS) consists of a treatment plant and appurtenances rated at 162 Million Gallons Per Day (MGD), interceptor pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for irrigation and level control under the first major urban reuse program in Texas.

CRWS provides wastewater transportation and treatment for the Cities of Irving, Grand Prairie, Farmers Branch, Dallas, Carrollton, Coppell, Cedar Hill, Euless, Bedford, Fort Worth, Arlington, Colleyville, Dallas/Fort Worth International Airport, Grapevine, Mansfield, Hurst, North Richland Hills, Duncanville, Southlake, Keller, and Addison. The estimated average daily volume of wastewater predicted to be received from the contributing cities in Fiscal Year 2002 is 151.208 Millions of Gallons Per Day (MGD).

City	2004		2003	
	Percent Contribution	Amount MGD	Percent Contribution	Amount MGD
Addison	1.508%	2.280	1.518%	2.280
Arlington	30.666%	46.370	30.276%	45.460
Bedford	3.241%	4.900	3.130%	4.700
Carrollton	9.060%	13.700	7.992%	12.000
Cedar Hill	0.214%	0.324	0.200%	0.300
Colleyville	1.686%	2.550	1.683%	2.527
Coppell	2.778%	4.200	2.597%	3.900
D/FW Airport	1.528%	2.310	1.539%	2.310
Dallas	5.456%	8.250	5.661%	8.500
Duncanville	0.132%	0.200	0.133%	0.200
Euless	2.827%	4.275	2.847%	4.275
Farmers Branch	4.431%	6.700	4.462%	6.700
Fort Worth	1.045%	1.580	0.911%	1.368
Grand Prairie	10.259%	15.512	11.116%	16.690
Grapevine	1.198%	1.811	1.279%	1.920
Hurst	0.137%	0.207	0.135%	0.202
Irving	17.790%	26.900	19.148%	28.750
Keller	1.755%	2.654	1.608%	2.415
Mansfield	2.728%	4.125	2.165%	3.250
North Richland Hills	0.437%	0.660	0.468%	0.703
Southlake	1.124%	1.700	1.132%	1.700
Totals	100.000%	151.208	100.000%	150.150

Located on 495 acres adjacent to the West Fork of the Trinity River, the CRWS Facility initiated operation in December 1959, initially serving four cities. The original plant consisted of a trickling filter process with a capacity of 30 MGD. The capacity was increased to 60 MGD in 1976 by the addition of mechanical dewatering equipment and an activated sludge process.

In 1980, a two phase expansion program was completed that increased the capacity to 100 MGD and provided tertiary treatment. Growth in the service area resulted in the expansion of the CRWS facility to a capacity of 135 MGD, with construction initiated in 1988 and completed in early 1994. Effluent discharged from CRWS consistently meets or exceeds the requirements specified in the TPDES permit issued by the Texas Commission on Environmental Quality (TCEQ). TCEQ approved an uprating of the discharge permit to an effluent level of 162 MGD with the completion of the solids dewatering project on April 1, 2001.

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
ENTERPRISE FUND**

Work Program

To maintain and operate the Central Plant on a 24-hour a day, 7-day a week basis requires a staff of three (3) department managers reporting to the Project Manager. In addition to the management staff, including purchasing and the inventory department, staffing is as follows:

System Operation and Maintenance	96
Administration Services	8
Technical Services	44
Northern Region Purchasing	7
Pretreatment	<u>8</u>
	163

The responsibility for selecting process parameters, actual treatment of wastewater, process and non-process equipment maintenance, maintenance, repair of electrical and electronic equipment, lift station maintenance sludge disposal and computer monitoring of plant processes lies with the Manager, System Operations, and the Operation and Maintenance Department.

The Manager, Administrative Services and staff provide support at the Central System in the areas of human resource administration, benefits, training, clerical, accounts payable, payroll, and capital asset control and data processing.

The Manager, Technical Services and staff provide analytical data for process control, influent monitoring and effluent quality reports. The Laboratory and Pretreatment Programs provide analytical and technical assistance to cities, state, and/or federal agencies and other TRA Projects on a contract basis. Engineering Services provide inspection and surveillance of the collection system and monitoring of flows from the Cities into the Central System.

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 TOTAL FUND SUMMARY**

FUNDS AVAILABLE

Projected December 1, 2003 \$ 17,184,010

ESTIMATED SOURCES OF FUNDS

Contract Revenue	\$	55,197,760	
Inter-Fund Services & Charges		514,340	
Operating Overhead		435,550	
Professional Fees		500,000	
Interest Income		609,600	
Operating Transfers		118,000	
Miscellaneous Income		762,980	58,138,230

TOTAL FUNDS AVAILABLE \$ 75,322,240

ESTIMATED APPLICATION OF FUNDS

Appropriation Expenditures:

Personal Services	\$	8,791,200	
Supplies		3,173,040	
Other Services and Charges		13,539,730	
Capital Outlays		742,900	
Debt Service and Miscellaneous		31,596,360	57,843,230

TOTAL FUNDS APPLIED \$ 57,843,230

FUNDS AVAILABLE

Projected November 30, 2004 \$ 17,479,010

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
REVENUE SUMMARY**

<u>DESCRIPTION OF REVENUE</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>	<u>2002 ACTUAL</u>
<u>CONTRACT AND OPERATING OVERHEAD REVENUE</u>			
(301) Contract Revenue - Addison	\$ 832,380	\$ 829,040	\$ 771,892
(301) Contract Revenue - Arlington	16,926,950	16,534,910	15,273,724
(301) Contract Revenue - Bedford	1,788,960	1,709,420	1,705,389
(301) Contract Revenue - Carrollton	5,000,920	4,364,740	4,776,897
(301) Contract Revenue - Cedar Hill	118,120	109,230	112,421
(301) Contract Revenue - Colleyville	930,640	919,150	784,439
(301) Contract Revenue - Coppell	1,533,400	1,418,320	1,357,586
(301) Contract Revenue - D/FW Airport	843,420	840,510	681,052
(301) Contract Revenue - Dallas	3,011,590	3,091,690	2,779,915
(301) Contract Revenue - Duncanville	72,860	72,640	65,244
(301) Contract Revenue - Euless	1,560,440	1,554,860	1,355,077
(301) Contract Revenue - Farmers Branch	2,445,810	2,436,870	2,270,005
(301) Contract Revenue - Fort Worth	576,820	497,530	610,788
(301) Contract Revenue - Grand Prairie	5,662,740	6,070,880	4,639,382
(301) Contract Revenue - Grapevine	661,270	698,510	563,110
(301) Contract Revenue - Hurst	75,620	73,730	63,739
(301) Contract Revenue - Irving	9,819,680	10,457,470	9,534,220
(301) Contract Revenue - Keller	968,720	878,190	839,144
(301) Contract Revenue - Mansfield	1,505,790	1,182,390	1,165,366
(301) Contract Revenue - North Richland Hills	241,210	255,590	210,288
(301) Contract Revenue - Southlake	620,420	618,230	628,354
(338) Inter-Fund Services & Charges	514,340	414,340	340,232
(339) Operating Overhead - Other Projects	435,550	417,170	362,312
TOTAL CONTRACT AND OPERATING OVERHEAD REVENUE	<u>56,147,650</u>	<u>55,445,410</u>	<u>50,890,576</u>
<u>PROFESSIONAL FEES</u>			
(398) Professional Fees	500,000	450,000	835,387
TOTAL PROFESSIONAL FEES	<u>500,000</u>	<u>450,000</u>	<u>835,387</u>
<u>INTEREST INCOME</u>			
(380) Interest Income - Interest & Sinking Fund	114,800	229,600	355,533
(380) Interest Income - Reserve Fund	439,500	1,147,800	618,127
(380) Interest Income - Revenue Fund	44,300	123,500	141,759
(380) Interest Income - Emergency	11,000	44,000	91,343
TOTAL INTEREST INCOME	<u>\$ 609,600</u>	<u>\$ 1,544,900</u>	<u>\$ 1,206,762</u>

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 REVENUE SUMMARY**

<u>DESCRIPTION OF REVENUE</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>	<u>2002 ACTUAL</u>
<u>OPERATING TRANSFERS</u>			
(372) Operating Transfers - Risk Retention	118,000	258,440	-
TOTAL OPERATING TRANSFERS	118,000	258,440	-
<u>MISCELLANEOUS INCOME</u>			
(340) Overstrength Surcharge	\$ 650,000	\$ 600,000	\$ 911,534
(341) Northeast Lakeview Lift Station	-	-	20,840
(343) Pretreatment Revenue	25,000	22,000	38,799
(344) Commodity Charge	48,880	51,810	132,527
(348) Quantity Surcharge	29,100	36,800	24,232
(399) Miscellaneous Income	10,000	10,000	22,217
TOTAL MISCELLANEOUS INCOME	762,980	720,610	1,150,148
GRAND TOTAL	\$ 58,138,230	\$ 58,419,360	\$ 54,082,873

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
EXPENDITURE SUMMARY**

<u>DESCRIPTION OF EXPENDITURE</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>	<u>2002 ACTUAL</u>
<u>PERSONAL SERVICES</u>			
(400) Salaries - Regular	\$ 6,645,060	\$ 6,465,890	\$ 6,520,636
(402) Payroll Taxes - Fica	508,350	494,640	487,326
(403) Emp. Ben - Health/Life Ins.	831,930	655,250	411,933
(404) Employee Benefit - Pension	761,650	740,660	641,752
(406) Unemployment Compensation	20,000	20,000	1,864
(407) Emp. Recognition Program	18,610	16,280	19,646
(408) Employee Benefit - Education	5,600	7,000	2,385
TOTAL PERSONAL SERVICES	<u>8,791,200</u>	<u>8,399,720</u>	<u>8,085,542</u>
<u>SUPPLIES</u>			
(410) Office Supplies	45,900	50,200	41,118
(411) Dues and Subscriptions	54,810	55,850	69,515
(412) Fees Other Than Dues and Subscriptions	79,810	80,910	153,050
(413) Maintenance and Operating Supplies	162,750	166,930	196,146
(414) Lab Supplies	297,950	280,350	298,733
(415) Process Chemicals and Supplies	2,144,870	2,524,000	1,881,756
(416) Fuel, Oil, & Lubricants	94,320	103,630	91,781
(417) Computer Software, Lic. & Instr. Supplies	292,630	294,530	44,148
TOTAL SUPPLIES	<u>3,173,040</u>	<u>3,556,400</u>	<u>2,776,247</u>
<u>OTHER SERVICES AND CHARGES</u>			
(420) Auditing	37,500	37,500	36,000
(421) Engineering	259,500	223,090	282,517
(422) Legal	20,000	20,000	374
(423) Outside Services	577,630	644,590	404,151
(424) Other Professional Services	148,600	197,700	186,586
(430) Telephone and Telemetry	98,760	91,060	82,240
(431) Postage	8,520	8,520	7,788
(432) Printing and Binding	7,300	11,010	4,268
(433) Insurance Payments	299,960	287,430	173,153
(436) Travel	19,300	19,300	22,679
(437) Laundry, Uniform, & Ind. Equip	49,070	49,070	52,343
(438) Training	55,700	70,600	39,285
(440) Utilities	110,000	120,000	73,832
(442) Power	5,639,960	4,553,480	3,930,637
(443) R & M - Collection System	388,240	369,750	862,727
(444) R & M - Equipment	168,790	223,200	144,655
(445) R & M - Plant & Buildings	691,520	729,600	880,312
(446) R & M - Vehicles	40,860	43,500	40,380
(448) R & M - Electrical	514,000	587,000	440,695
(449) Off-site Biosolid Land Application	2,563,870	2,665,190	2,279,298
(451) Rent - Machinery & Equip.	84,100	79,520	86,192
(466) Administrative Overhead	1,756,550	1,754,570	1,545,960
TOTAL OTHER SERVICES AND CHARGES	<u>13,539,730</u>	<u>12,785,680</u>	<u>11,576,072</u>

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 EXPENDITURE SUMMARY**

<u>DESCRIPTION OF EXPENDITURE</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>	<u>2002 ACTUAL</u>
<u>CAPITAL OUTLAYS</u>			
(476) Machinery & Equipment	\$ 742,900	\$ 1,108,790	\$ 645,437
TOTAL CAPITAL OUTLAYS	<u>742,900</u>	<u>1,108,790</u>	<u>645,437</u>
<u>DEBT SERVICE AND MISCELLANEOUS*</u>			
(480) Bond Principal Payments	17,295,000	16,430,000	15,580,000
(481) Interest on Long-Term Debt	14,285,860	15,785,120	14,674,200
(483) Paying Agent Fees	5,000	12,000	1,703
(486) SEC Disclosure Fees	<u>10,500</u>	<u>-</u>	<u>-</u>
TOTAL DEBT SERVICE AND MISCELLANEOUS	<u>31,596,360</u>	<u>32,227,120</u>	<u>30,255,903</u>
GRAND TOTAL	<u>\$ 57,843,230</u>	<u>\$ 58,077,710</u>	<u>\$ 53,339,201</u>

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 REVENUE WORKSHEET**

<u>CONTRACT REVENUE</u>	<u>PROPOSED 2004 BUDGET</u>
Operation & Maintenance	
Total Expenditures	\$ 26,262,370.00
Less Other Revenue Sources:	
Inter-Fund Services & Charges	(514,340.00)
Operating Overhead	(435,550.00)
Professional Fees	(500,000.00)
Pretreatment Revenue	(25,000.00)
Commodity Charge	(48,880.00)
Operating Transfers & Misc.	(128,000.00)
Overstrength Surcharge	(650,000.00)
Zone B & Quantity Surcharge	<u>(29,100.00)</u>
Total Other Revenue Sources	<u>(2,330,870.00)</u>
Net Operation and Maintenance to be to Billed Monthly	23,931,500.00
 Debt Service	
Principal on Bonds:	
Due 8/01/2004: 17,295,000.00 x 8/12	11,530,000.00
Due 8/01/2005: 18,180,000.00 x 4/12	6,060,000.00
Interest on Bonds:	
Due 2/01/2004: 7,280,128.13 x 2/6	2,426,709.38
Due 8/01/2004: 7,280,128.13 x 6/6	7,280,128.13
Due 2/01/2005: 6,868,538.13 x 4/6	4,579,025.42
Rounding	(2.93)
Less: Interest Income	<u>(609,600.00)</u>
Net Debt Service to Billed Monthly	<u>31,266,260.00</u>
 TOTAL CONTRACT REVENUE	 <u>\$ 55,197,760.00</u>

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(301010) CONTRACT REVENUE - ADDISON</u>			
(1106.301010) Operation & Maintenance			
\$23,931,500 x 1.508%	\$ 360,887.02		
(1107.301010) Debt Service			
\$31,266,260 x 1.508%	471,495.20		
Rounding	(2.22)		
Total Annual Requirement		\$ 832,380	\$ 829,040
<u>(301020) CONTRACT REVENUE - ARLINGTON</u>			
(1106.301020) Operation & Maintenance			
\$23,931,500 x 30.666%	7,338,833.79		
(1107.301020) Debt Service			
\$31,266,260 x 30.666%	9,588,111.29		
Rounding	4.92		
Total Annual Requirement		16,926,950	16,534,910
<u>(301040) CONTRACT REVENUE - BEDFORD</u>			
(1106.301040) Operation & Maintenance			
\$23,931,500 x 3.241%	775,619.92		
(1107.301040) Debt Service			
\$31,266,260 x 3.241%	1,013,339.49		
Rounding	0.60		
Total Annual Requirement		1,788,960	1,709,420
<u>(301110) CONTRACT REVENUE - CARROLLTON</u>			
(1106.301110) Operation & Maintenance			
\$23,931,500 x 9.060%	2,168,193.90		
(1107.301110) Debt Service			
\$31,266,260 x 9.060%	2,832,723.16		
Rounding	2.94		
Total Annual Requirement		5,000,920	4,364,740
<u>(301120) CONTRACT REVENUE - CEDAR HILL</u>			
(1106.301120) Operation & Maintenance			
\$23,931,500 x 0.214%	51,213.41		
(1107.301120) Debt Service			
\$31,266,260 x 0.214%	66,909.80		
Rounding	(3.21)		
Total Annual Requirement		118,120	109,230

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(301150) CONTRACT REVENUE - COLLEYVILLE</u>			
(1106.301150) Operation & Maintenance \$23,931,500 x 1.686%	\$ 403,485.09		
(1107.301150) Debt Service \$31,266,260 x 1.686%	527,149.14		
Rounding	<u>5.77</u>		
Total Annual Requirement		\$ 930,640	\$ 919,150
<u>(301170) CONTRACT REVENUE - COPPELL</u>			
(1106.301170) Operation & Maintenance \$23,931,500 x 2.778%	664,817.07		
(1107.301170) Debt Service \$31,266,260 x 2.778%	868,576.70		
Rounding	<u>6.23</u>		
Total Annual Requirement		1,533,400	1,418,320
<u>(301200) CONTRACT REVENUE - D/FW AIRPORT</u>			
(1106.301200) Operation & Maintenance \$23,931,500 x 1.528%	365,673.32		
(1107.301200) Debt Service \$31,266,260 x 1.528%	477,748.45		
Rounding	<u>(1.77)</u>		
Total Annual Requirement		843,420	840,510
<u>(301210) CONTRACT REVENUE - DALLAS</u>			
(1106.301210) Operation & Maintenance \$23,931,500 x 5.456%	1,305,702.64		
(1107.301210) Debt Service \$31,266,260 x 5.456%	1,705,887.15		
Rounding	<u>0.21</u>		
Total Annual Requirement		3,011,590	3,091,690
<u>(301260) CONTRACT REVENUE - DUNCANVILLE</u>			
(1106.301260) Operation & Maintenance \$23,931,500 x 0.132%	31,589.58		
(1107.301260) Debt Service \$31,266,260 x 0.132%	41,271.46		
Rounding	<u>(1.04)</u>		
Total Annual Requirement		72,860	72,640

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(301290) CONTRACT REVENUE - EULESS</u>			
(1106.301290) Operation & Maintenance			
\$23,931,500 x 2.827%	\$ 676,543.51		
(1107.301290) Debt Service			
\$31,266,260 x 2.827%	883,897.17		
Rounding	(0.68)		
Total Annual Requirement		\$ 1,560,440	\$ 1,554,860
<u>(301300) CONTRACT REVENUE - FARMERS BRANCH</u>			
(1106.301300) Operation & Maintenance			
\$23,931,500 x 4.431%	1,060,404.77		
(1107.301300) Debt Service			
\$31,266,260 x 4.431%	1,385,407.98		
Rounding	(2.75)		
Total Annual Requirement		2,445,810	2,436,870
<u>(301330) CONTRACT REVENUE - FORT WORTH</u>			
(1106.301330) Operation & Maintenance			
\$23,931,500 x 1.045%	250,084.18		
(1107.301330) Debt Service			
\$31,266,260 x 1.045%	326,732.42		
Rounding	3.41		
Total Annual Requirement		576,820	497,530
<u>(301390) CONTRACT REVENUE - GRAND PRAIRIE</u>			
(1106.301390) Operation & Maintenance			
\$23,931,500 x 10.259%	2,455,132.59		
(1107.301390) Debt Service			
\$31,266,260 x 10.259%	3,207,605.61		
Rounding	1.80		
Total Annual Requirement		5,662,740	6,070,880
<u>(301400) CONTRACT REVENUE - GRAPEVINE</u>			
(1106.301400) Operation & Maintenance			
\$23,931,500 x 1.198%	286,699.37		
(1107.301400) Debt Service			
\$31,266,260 x 1.198%	374,569.79		
Rounding	0.84		
Total Annual Requirement		661,270	698,510

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(301450) CONTRACT REVENUE - HURST</u>			
(1106.301450) Operation & Maintenance			
\$23,931,500 x 0.137%	32,786.16		
(1107.301450) Debt Service			
\$31,266,260 x 0.137%	42,834.78		
Rounding	(0.93)		
Total Annual Requirement		\$ 75,620	\$ 73,730
<u>(301460) CONTRACT REVENUE - IRVING</u>			
(1106.301460) Operation & Maintenance			
\$23,931,500 x 17.790%	\$ 4,257,413.85		
(1107.301460) Debt Service			
\$31,266,260 x 17.790%	5,562,267.65		
Rounding	(1.50)		
Total Annual Requirement		9,819,680	10,457,470
<u>(301480) CONTRACT REVENUE - KELLER</u>			
(1106.301480) Operation & Maintenance			
\$23,931,500 x 1.755%	419,997.83		
(1107.301480) Debt Service			
\$31,266,260 x 1.755%	548,722.86		
Rounding	(0.69)		
Total Annual Requirement		968,720	878,190
<u>(301520) CONTRACT REVENUE - MANSFIELD</u>			
(1106.301520) Operation & Maintenance			
\$23,931,500 x 2.728%	652,851.32		
(110.301520) Debt Service			
\$31,266,260 x 2.728%	852,943.57		
Rounding	(4.89)		
Total Annual Requirement		1,505,790	1,182,390
<u>(301590) CONTRACT REVENUE - NORTH RICHLAND HILLS</u>			
(1106.301590) Operation & Maintenance			
\$23,931,500 x 0.437%	\$ 104,580.66		
(1107.301590) Debt Service			
\$31,266,260 x 0.437%	136,633.56		
Rounding	(4.21)		
Total Annual Requirement		241,210	255,590

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REVENUE WORKSHEET**

ACCOUNT NUMBER/DESCRIPTION	PROPOSED DETAIL	PROPOSED 2004 BUDGET	CURRENT 2003 BUDGET
<u>(301680) CONTRACT REVENUE - SOUTHLAKE</u>			
(1106.301680) Operation & Maintenance			
\$23,931,500 x 1.124%	\$ 268,990.06		
(1107.301680) Debt Service			
\$31,266,260 x 1.124%	351,432.76		
Rounding	(2.82)		
Total Annual Requirement		\$ 620,420	\$ 618,230
<u>(1106.338) INTER-FUND SERVICES & CHARGES</u>			
Clean Rivers Program (TNRCC)	70,000.00		
Ten Mile Creek	269,200.00		
Denton Creek	49,200.00		
Red Oak Creek	13,670.00		
Tarrant County	25,000.00		
Walker-Calloway Branches	14,500.00		
Mountain Creek	37,670.00		
Northeast Lakeview	5,100.00		
Joe Pool Lake	30,000.00		
Total Annual Requirement		514,340	414,340
<u>(1106.339) OPERATING OVERHEAD - OTHER PROJECTS</u>			
DCURD #1	359,340.00		
Ten Mile Creek	26,540.00		
Denton Creek	13,520.00		
Red Oak Creek	3,920.00		
Mountain Creek	4,150.00		
Tarrant County	28,080.00		
Total Annual Requirement		435,550	417,170
<u>(1106.398) PROFESSIONAL FEES</u>		500,000	450,000
<u>(1108.380) INTEREST INCOME - I & S</u>		114,800	229,600
<u>(1108.380) INTEREST INCOME - RESERVE FUND</u>		439,500	1,147,800
<u>(110.8.380) INTEREST INCOME - REVENUE FUND</u>		44,300	123,500
<u>(1108.380) INTEREST INCOME - EMERGENCY FUND</u>		11,000	44,000
<u>(1106.340) OVERSTRENGTH SURCHARGE</u>		650,000	600,000
<u>(1106.343) PRETREATMENT REVENUE</u>		25,000	22,000
<u>(1106.344) COMMODITY CHARGE</u>		48,880	51,810
<u>(1106.348) QUANTITY SURCHARGE</u>			
Town of Addison		29,100	36,800

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.373) OPERATING TRANSFERS - RISK RETENTION</u>		\$ 118,000	\$ 258,440
<u>(1106.399) MISCELLANEOUS INCOME</u>		10,000	10,000

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Salaries Under the Salary Administration Plan for the Following:		
Manager, Central Regional Wastewater System	1	
Maintenance Engineer	1	
Sub-Total	2	
Manager, System Operation	1	
Operations Division Chief	2	
Chief Operator	8	
Senior Operator	8	
Operator II	17	
Operator I	6	
Maintenance Division Chief	1	
Chief Maintenance Mechanic	6	
Senior Maintenance Mechanic	14	
Maintenance Mechanic II	14	
Maintenance Mechanic I	4	
E/E Division Chief	1	
Chief Electrician	1	
Chief Electronic Technician	1	
Senior Electrician	2	
Senior Electronic Technician	3	
Electronic Technicial II	1	
Electrician II	3	
Senior HVAC Technician	1	
Process Systems Automation Engineer	1	
Sub-Total	95	
System Operations - Part-Time Employees		
Senior Maintenance Mechanic	1	
Sub-Total	1	

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Manager, Technical Services	1	
Laboratory Division Chief	1	
Laboratory Supervisor	3	
Quality Assurance Coordinator	1	
Senior Biologist	1	
Senior Chemist	2	
Biologist	6	
Chemist	7	
Laboratory Technician II	3	
Laboratory Technician I	-	
Technical Services Engineer	1	
Environmental Services Coordinator	1	
Interceptor System Specialist	2	
Maintenance Division Chief	1	
Chief Maintenance Mechanic	1	
Senior Maintenance Mechanic	3	
Maintenance Mechanic II	4	
Chief Electronic Technician (Instrument Technician)	1	
Senior Electronic Technician (Instrument Technician)	1	
Electronic Technician II (Instrument Technician)	3	
Senior Secretary	1	
Field Technician II	1	
Sub-Total	45	
Manager, Administrative Services	1	
Office Coordinator	1	
Senior Secretary	5	
Accounting Clerk	1	
Training Coordinator	1	
Sub-Total	9	
Purchasing/Warehouse		
Purchase/Warehouse Supervisor	1	
Buyer	2	
Assistant Buyer	1	
Senior Storekeeper	2	
Senior Secretary	1	
Sub-Total	7	
Total Project Positions W/O Pretreatment	159	

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Total Project Base Salaries w/Shift Diff		\$ 6,033,720
Total Project Holiday and Overtime Pay		288,640
Rounding		
Total Project Salaries		6,322,360
Pretreatment		
Pretreatment Coordinator	1	
Senior Secretary	1	
Environmental Inspector	3	
Senior Field Technician	2	
Field Technician II	<u>1</u>	
Total Pretreatment Positions	8	
Total Pretreatment Base Salaries w/Shift Diff		313,300
Total Pretreatment Holiday and Overtime Pay		<u>9,400</u>
Rounding		
Total Pretreatment Salaries		322,700
Total Positions - Regular Employees	166	
Total Positions - Part-Time Employees	<u>1</u>	
Total All Positions	<u>167</u>	
Total Salaries		<u>\$ 6,645,060</u>

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.400) SALARIES - REGULAR</u>			
(001.01) PROJECT 157 Employees	\$ 6,322,360.00		
(001.02) PRETREATMENT 8 Employees	<u>322,700.00</u>		
Total Salaries - Regular		\$ 6,645,060	\$ 6,465,890
<u>(1106.402) PAYROLL TAXES - FICA</u>			
(001.01) PROJECT \$ 6,322,360.00 x 7.65% =	483,680.00		
(001.02) PRETREATMENT \$ 322,700.00 x 7.65% =	24,690.00		
Rounding			
Total Payroll Taxes - Fica		508,350	494,640
<u>(1106.403) EMPLOYEE BENEFIT - HEALTH/LIFE INSURANCE</u>			
PROJECT			
(001.01) Health			
\$ 279.62 X 115 X 12	385,875.60		
\$ 440.77 X 12 X 12	63,470.88		
\$ 382.53 X 10 X 12	45,903.60		
\$ 498.98 X 16 X 12	95,804.16		
Provision for increase 25%	147,763.56		
(002.01) Life Insurance/AD&D:	35,389.00		
(003.01) Long Term Disability:	17,066.00		
(004.01) Employee Assistance Program:	4,770.00		
PRETREATMENT			
(001.02) Health			
\$ 279.62 X 6 X 12	20,132.64		
\$ 440.77 X 0 X 12	-		
\$ 382.53 X 0 X 12	-		
\$ 498.98 X 1 X 12	5,987.76		
Provision for increase 25%	6,530.01		
(002.02) Life Insurance:	1,801.00		
(003.02) Long Term Disability:	1,194.00		
(004.02) Employee Assistance Program:	240.00		
rounding	<u>1.79</u>		
Total Emp. Ben. - Health/Life Insurance		831,930	655,250

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.404) EMPLOYEE BENEFIT - PENSION</u>			
(001.01) PROJECT	\$ 724,050.00		
(001.02) PRETREATMENT	<u>37,600.00</u>		
Total Emp. Ben. - Pension		\$ 761,650	\$ 740,660
<u>(1106.406) UNEMPLOYMENT COMPENSATION</u>			
(001.01) PROJECT	19,300.00		
(001.02) PRETREATMENT	<u>700.00</u>		
Total Unemployment Compensation		20,000	20,000
<u>(1106.407) EMPLOYEE RECOGNITION PROGRAM</u>			
(001.01) PROJECT			
Service Awards	\$ 18,610.00		
(001.02) PRETREATMENT	<u>-</u>		
Total Employee Recognition Program		18,610	16,280
<u>(1106.408) EMPLOYEE BENEFIT - EDUCATION</u>			
(001.01) PROJECT	5,100.00		
(001.02) PRETREATMENT	<u>500.00</u>		
Total Employee Benefit - Education		5,600	7,000
Total Personal Services		8,791,200	8,399,720
<u>(1106.410) OFFICE SUPPLIES</u>			
PROJECT			
(001.01) Consumables	16,200.00		
(002.01) Non-Consumables	7,650.00		
(003.01) Computer/Copier Supplies	12,300.00		
(005.01) Vending and Lunchroom Supplies	7,800.00		
PRETREATMENT			
(001.02) Consumables	300.00		
(002.02) Non-Consumables	500.00		
(003.02) Computer/Copier Supplies	1,000.00		
(005.02) Vending and Lunchroom Supplies	<u>150.00</u>		
Total Office Supplies		45,900	50,200
<u>(1106.411) DUES & SUBSCRIPTIONS</u>			
PROJECT			
(001.01) Professional/Technical Memberships			
AMSA/AWWA	12,000.00		
Tx Prof Engineer	460.00		
ASTD/ISA	110.00		
American Society for Human Resources	390.00		
American Water Resource Association	120.00		
Chlorine Institute	700.00		
Natl Assoc of Purchasing Managers	500.00		
Nat Safety Council/TX Safety Association	210.00		
TX Water Utilities Association	700.00		
WEF/WEAT	1,400.00		
WERF	34,000.00		
(002.01) Periodicals/Magazines/Newspapers	1,810.00		
(003.01) Reference Books	1,400.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.411) DUES & SUBSCRIPTIONS (Continued)</u>			
PRETREATMENT			
(001.02) Professional/Technical Memberships TWUA	\$ 210.00		
(003.02) Reference Books	<u>800.00</u>		
Total Dues and Subscriptions		\$ 54,810	\$ 55,850
<u>(1106.412) FEES OTHER THAN DUES & SUBSCRIPTIONS</u>			
PROJECT:			
(001.01) Certification Fees	4,300.00		
(002.01) TCEQ WW Inspect & WQA Fees	75,000.00		
(005.01) TCEQ Sludge Fee	100.00		
(006.01) Tier Two Fees	10.00		
PRETREATMENT			
(001.02) Certification Fees	<u>400.00</u>		
Total Fees Other Than Dues & Subscriptions		79,810	80,910
<u>(1106.413) MAINTENANCE AND OPERATING SUPPLIES</u>			
PROJECT			
(001.01) Repair/Replacement of Hand Tools	25,320.00		
(002.01) Operational Supplies	17,150.00		
(003.01) Maintenance Supplies	30,000.00		
(004.01) Ground Care Supplies	6,000.00		
(005.01) Janitorial and Cleaning Supplies	11,800.00		
(006.01) Electrical Supplies	12,000.00		
(007.01) Facilities Supplies	15,000.00		
(008.01) Protective/Safety Equipment	44,750.00		
PRETREATMENT			
(001.02) Repair/Replacement of Hand Tools	280.00		
(005.02) Janitorial and Cleaning Supplies	200.00		
(008.02) Protective/Safety Equipment	<u>250.00</u>		
Total Maintenance and Operating Supplies		162,750	166,930
<u>(1106.414) LAB SUPPLIES</u>			
PROJECT			
(001) Gases	8,000.00		
(002) Water System	6,000.00		
(003) Bacti-Filters, Media and Supplies	68,000.00		
(004) AA, ICP, and IR Supplies	8,000.00		
(005) Gas Chromatog Supplies	12,000.00		
(006) TOC and MCTS-10 Supplies	3,000.00		
(007) Lab Apparatus	29,150.00		
(008) Chemical Reagents	69,500.00		
(009) Glassware, Plastics, and Disposables	60,000.00		
(010) Filters, Glass Fiber, Prefilters and Membranes	11,000.00		

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.414) LAB SUPPLIES (Continued)</u>			
(011) Field Sampling Supplies	1,000.00		
(012) Operational Supplies	5,000.00		
(013) Nuclear Sources - Wipe Test & Refoil	300.00		
(014) Other - Freight and Shipping	1,350.00		
PRETREATMENT			
(007) Lab Apparatus	850.00		
(008) Chemical Reagents and Standards	500.00		
(009) Glassware, Plastics, and Disposables	3,000.00		
(011) Field Sampling Supplies	11,000.00		
(014) Other - Freight and Shipping	300.00		
Total Lab Supplies		\$ 297,950	\$ 280,350
<u>(1106.415) PROCESS CHEMICALS AND SUPPLIES</u>			
PROJECT			
(001) Lime	910,000.00		
(002) Ferric Chloride	259,350.00		
(003) Chlorine	279,720.00		
(004) Polymer	293,400.00		
(005) Hydrochloric Acid	5,000.00		
(006) Sodium Hydroxide	10,000.00		
(007) Citric Acid	500.00		
(008) Filter Cloths	83,000.00		
(009) Tie Wraps, Bags, Sludge Judges, Etc.	7,000.00		
(010) Taste/Odor Control	150,000.00		
(011) Boiler Chemicals	2,000.00		
(012) Sulfur Dioxide	144,900.00		
Total Process Chemicals and Supplies		2,144,870	2,524,000
<u>(1106.416) FUEL, OIL, AND LUBRICANTS</u>			
PROJECT			
(001) Gasoline	36,600.00		
(002) Diesel Fuel	25,200.00		
(003) Solvents/Cleaners	10,200.00		
(004) Anti-Freeze	1,760.00		
(005) Grease	2,470.00		
(006) Lubricants	16,000.00		
(007) Propane	600.00		
PRETREATMENT			
(001) Gasoline	1,200.00		
(004) Anti-Freeze	40.00		
(005) Grease	50.00		
(006) Lubricants	200.00		
Total Fuel, Oil, and Lubricants		94,320	103,630

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.417) COMPUTER SOFTWARE, LICENSES & INSTRUMENT SUPPLIES</u>			
PROJECT			
(001) Metering Supplies	\$ 13,000.00		
(002) Instrument Repair	12,000.00		
(003) Drafting/Engineering Supplies	4,000.00		
(004) Line Surveillance	3,100.00		
(005) FM Telemetry	1,000.00		
(006) Metering Electrical Repairs	9,000.00		
(007) Lawson G/L, HR & PR Software	250,080.00		
PRETREATMENT			
(001) Metering Supplies	150.00		
(002) Instrument Repair	<u>300.00</u>		
Total Computer and Instrument Supplies		\$ 292,630	\$ 294,530
Total Supplies		3,173,040	3,556,400
<u>(1106.420) AUDITING</u>			
(001) Audit		37,500	37,500
<u>(1106.421) ENGINEERING</u>			
(001) Engineering Studies	90,000.00		
(002) I/I Prorations	90,000.00		
(003) Triennial Report/Annual Update	59,500.00		
(004) Pipeline Repairs/Erosion Control	<u>20,000.00</u>		
Total Engineering		259,500	223,090
<u>(1106.422) LEGAL</u>			
(001) Legal		20,000	20,000
<u>(1106.423) OUTSIDE SERVICES</u>			
PROJECT			
(001) Advertising	32,500.00		
(002) Graphics, Displays, Etc.	7,000.00		
(003) Construction Services Charges	50,000.00		
(004) Security Monitoring/Support	8,400.00		
(005) Solid Waste Disposal (Odor Control)	28,000.00		
(006) Contract Labor	21,000.00		
(007) PC/Network/SCADA Support	291,390.00		
(008) Lawson Support	58,030.00		
(012) Janitorial	48,400.00		
PRETREATMENT			
(001) Advertising	500.00		
(002) Graphics, Displays, Etc.	200.00		
(006) Contract Labor	<u>1,000.00</u>		
Total Outside Services		546,420	644,590

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.424) OTHER PROFESSIONAL SERVICES</u>			
PROJECT			
(001.01) Drug Testing	\$ 15,750.00		
(002.01) U.S.G.S. Payments	26,500.00		
(003.01) Motor Vehicle Reports	350.00		
(004.01) Outside Testing - Laboratory	82,000.00		
(006.01) NEXRAIN Studies	20,000.00		
PRETREATMENT			
(004.02) Outside Testing - Laboratory	<u>4,000.00</u>		
Total Other Professional Services		\$ 148,600	\$ 197,700
<u>(1106.430) TELEPHONE & TELEMETERING</u>			
PROJECT			
(001.01) Telephone/Telemetering	37,660.00		
(002.01) Pagers	5,400.00		
(003.01) Mobile Telephones (62)	41,760.00		
(004.01) Internet Access	8,860.00		
PRETREATMENT			
(001.02) Telephone/Telemetering	1,000.00		
(002.02) Pagers	360.00		
(003.02) Mobile Telephones (7)	<u>3,720.00</u>		
Total Telephone & Telemetering		98,760	91,060
<u>(1106.431) POSTAGE</u>			
PROJECT			
(001) Postage Meter	3,300.00		
(002) Stamps/Shipping	4,500.00		
PRETREATMENT			
(001) Postage Meter	500.00		
(002) Stamps/Shipping	<u>220.00</u>		
Total Postage		8,520	8,520
<u>(1106.432) PRINTING AND BINDING</u>			
PROJECT			
(001) Special Forms	3,000.00		
(002) Letterhead, Envelopes, and Stationary	1,800.00		
(003) Manuals, Handbooks, Etc.	1,500.00		
PRETREATMENT			
(001) Special Forms	750.00		
(002) Letterhead, Envelopes, and Stationary	<u>250.00</u>		
Total Printing and Binding		7,300	11,010

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 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.433) INSURANCE PAYMENTS</u>			
PROJECT			
(001) Workers' Compensation	\$ 145,245.00		
(002) Property/Casualty	88,021.00		
(003) General Liability	9,297.29		
(004) Public Official Liability	14,694.03		
(005) Automobile	28,550.95		
(006) Equipment Floater	11,933.55		
(007) Blanket Bond	2,215.48		
round	<u>2.70</u>		
Total Insurance Payments		\$ 299,960	\$ 287,430
<u>(1106.436) TRAVEL</u>			
PROJECT			
(001) CRWS Employees on Authority Business	15,550.00		
(002) Others on Authority Business	750.00		
PRETREATMENT			
(001) CRWS Employees on Authority Business	3,000.00		
(002) Others on Authority Business	<u>-</u>		
Total Travel		19,300	19,300
<u>(1106.437) LAUNDRY, UNIFORM & IND. EQUIP.</u>			
PROJECT			
(001) Uniform Rental	38,770.00		
(003) Patches/Hats	650.00		
(004) Towels, Mops, Mats	9,000.00		
PRETREATMENT			
(001) Uniform Rental	<u>650.00</u>		
Total Laundry, Uniform, & Ind. Equip.		49,070	49,070
<u>(1106.438) TRAINING</u>			
PROJECT			
(001) Training			
Wastewater Certification Training	10,000.00		
Safety Training	10,000.00		
Technical Training	21,100.00		
Enhanced Skills/Supervisory Training	4,500.00		
Training Manuals/Videos	6,000.00		
Purchasing Certification Classes	1,500.00		

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.438) TRAINING (Continued)</u>			
PRETREATMENT			
(001) Training			
Wastewater Certification Training	600.00		
Safety Training	600.00		
Technical Training	1,180.00		
Training Manuals/Videos	220.00		
Total Training		\$ 55,700	\$ 70,600
<u>(1106.440) UTILITIES</u>			
PROJECT			
(001) Natural Gas	80,000.00		
(002) Water	30,000.00		
Total Utilities		110,000	120,000
<u>(1106.442) POWER</u>			
(001) Power		5,639,960	4,553,480
<u>(1106.443) R & M - COLLECTION SYSTEM</u>			
PROJECT			
(001) Meter Station Structure Rehabilitation	21,000.00		
(002) Manhole/Junction Box Rehabilitation	21,000.00		
(003) System Repairs/Line Cleaning/TV	333,640.00		
(004) Lift Station/ROW Maintenance	12,600.00		
Total R & M - Collection System		388,240	369,750
<u>(1106.444) R & M - EQUIPMENT</u>			
PROJECT			
(001) Shop Equipment	6,500.00		
(002) Dumpsters	1,400.00		
(003) Compressors and Generators	11,500.00		
(004) Fuel Powered and Electrical Equipment	12,000.00		
(005) Office and Video Equipment	11,100.00		
(006) Analytical Equip Repair - Non Contract	20,000.00		
(007) Service Contracts- Analytical Equipment	12,000.00		
(008) Perkins-Elmer Equipment	12,000.00		
(009) Mowers/Tractors	8,500.00		
(010) Tracked Vehicles & Heavy Equipment	31,000.00		
(011) Carts	2,650.00		
(012) Heavy Trucks	20,000.00		
(013) Trailers	15,000.00		
(014) Locomotive	480.00		
(015) Tire Repair	2,100.00		
(016) High Pressure Units	960.00		
(017) Forklifts	1,600.00		
Total R & M - Equipment		168,790	223,200

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.445) R & M - PLANT AND BUILDINGS</u>			
PROJECT			
(001) Packing and Seals	\$ 30,600.00		
(002) Road Repair Materials	30,000.00		
(003) Machine Shop Stock	11,000.00		
(004) Mechanical Plating and Coating	25,000.00		
(005) Clarifiers, Aeration, Equalization Basins	30,000.00		
(006) Specialized Balancing and Machining	5,000.00		
(007) Valves, Valve Operators, Pipe, Etc.	78,000.00		
(008) Positive Displacement Pumps/Repairs	112,200.00		
(009) Filter Press Parts	22,800.00		
(010) Pump Repair, Pump Parts, Machining	105,100.00		
(011) Conveyer System Parts	23,500.00		
(012) Industrial Air/Oil Filters	3,000.00		
(013) Power Transmission Parts/Repairs	30,000.00		
(014) Building/Structural Repair	41,100.00		
(015) Chlorination/Dechlorination	16,200.00		
(016) Railroad Repairs	21,000.00		
(017) Stormwater Regulations - Street Cleaning	11,520.00		
(018) Blower Parts/Repairs	66,000.00		
(019) Crane Inspection & Servicing	9,500.00		
(020) Anaerobic Digester Clean/Rehab	<u>20,000.00</u>		
 Total R & M - Plant and Buildings		 \$ 691,520	 \$ 729,600
<u>(1106.446) R & M - VEHICLES</u>			
PROJECT			
(001) Automobiles	7,800.00		
(002) Pickup Trucks	22,800.00		
(003) Tire Repair	5,400.00		
(004) Other- Batteries, Wiper Blades, etc.	1,860.00		
PRETREATMENT			
(002) Pickup Trucks	2,400.00		
(003) Tire Repair	<u>600.00</u>		
 Total R & M - Vehicles		 40,860	 43,500

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.448) R & M - ELECTRICAL</u>			
PROJECT			
(001) Components	\$ 46,000.00		
(002) Signal Cable and Wire	6,000.00		
(003) Electronic Equipment Repair	65,000.00		
(004) Repairs of Pneumatic Systems	1,000.00		
(005) FM Telemetry	2,000.00		
(006) PLC/SCADA Parts and Repair	22,500.00		
(007) Vendor Service and Repair	44,200.00		
(008) Calibration	5,000.00		
(009) Electrical Parts and Materials	150,000.00		
(010) Motor Overhaul	75,000.00		
(011) HVAC Parts and Repair	90,000.00		
(012) Elevator Repair and Service	6,300.00		
(013) Cathodic Test	1,000.00		
	<hr/>		
Total R & M - Electrical		\$ 514,000	\$ 587,000
<u>(1106.449) OFF-SITE BIOSOLID LAND APPLICATION</u>			
(002) Beneficial Reuse		2,563,870	2,665,190
<u>(1106.451) RENT - MACHINERY & EQUIPMENT</u>			
PROJECT			
(001) Cranes and Other Heavy Equipment	40,500.00		
(002) Compressors and Special Equipment	2,600.00		
(003) Postage Meter	1,700.00		
(004) Tool Rental	1,000.00		
(005) Copier Rental	26,610.00		
(007) Cylinder Rental	7,000.00		
(008) Other Rental	4,690.00		
	<hr/>		
Total Rent - Machinery & Equipment		84,100	79,520
<u>(1106.466) ADMINISTRATIVE OVERHEAD</u>			
PROJECT			
(001) Related Cost Method Allocation		1,756,550	1,754,570
Total Other Services and Charges		13,539,730	12,785,680

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.476) MACHINERY & EQUIPMENT</u>			
(001.01)PROJECT-Replacement:			
(1) Full Size Truck	\$ 16,000.00		
(1) Spray Wash/Positive Displacement Pump	40,000.00		
(2) Solids Flow Meters	6,850.00		
(1) GC/MS Spectrophotometer	130,000.00		
(1) Track Loader	225,000.00		
(1) Tractor Hauling Truck	98,000.00		
(1) Television Inspection Unit w/ Trailer	135,000.00		
(6) Ultrasonic Depth Flow Meters	9,600.00		
(6) Telog Data Recorder	8,100.00		
(1) Portable Ultrasonic Depth Flow Meter	4,750.00		
(1) Doppler Closed Pipe Flow Meter	<u>4,000.00</u>		
		\$ 677,300	\$ 657,500
PRETREATMENT- Replacement:			
(1) 3/4 Ton 4X4 Truck	<u>25,000.00</u>		
		25,000	2,290

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2004
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1106.476) MACHINERY & EQUIPMENT (Continued)</u>			
(002.01) PROJECT- New:			
(1) Centrifuge	\$ 3,000.00		
(1) Belt Filter Press Autolube System	10,000.00		
(1) Gravity Table Belt Autolube System	6,000.00		
(1) Dump Truck Bed w/ Hydraulics	<u>20,000.00</u>		
		\$ 39,000	\$ 424,400
(002.02) PRETREATMENT- New			
(1) Camper for 3/4 Ton 4X4 Truck	<u>1,600.00</u>		
		1,600	24,600
 Total Machinery and Equipment		 742,900	 1,108,790

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2004
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2004 BUDGET</u>	<u>CURRENT 2003 BUDGET</u>
<u>(1107.480) BOND PRINCIPAL PAYMENTS</u>			
Due 8/01/2004:			
Series 1995	1,945,000.00		
Series 1998A	2,290,000.00		
Series 1998B	2,215,000.00		
Series 2001	170,000.00		
Series 2003	<u>10,675,000.00</u>		
 Total Bond Principal Payments		\$ 17,295,000	\$ 16,430,000
<u>(1107.481) INTEREST ON LONG TERM DEBT</u>			
Due 2/01/2004:			
Series 1995	216,576.25		
Series 1998A	796,936.25		
Series 1998B	1,355,778.75		
Series 2001	1,426,002.50		
Series 2003	3,484,834.38		
Due 8/01/2004:			
Series 1995	216,576.25		
Series 1998A	796,936.25		
Series 1998B	1,355,778.75		
Series 2001	1,426,002.50		
Series 2003	3,484,834.38		
Adjustment for Accrual	(274,394.16)		
round	<u>(2.00)</u>	14,285,860	15,785,120
 Total Bond Interest Payments			
 <u>(1106.483) PAYING AGENT FEES</u>		5,000	12,000
 <u>(1106.486) SEC DISCLOSURE FEES</u>		10,500	-
 Total Debt Service		31,596,360	32,227,120



August 5, 2003

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

RE: ReUse Status Report

For more than 15 years, TRA management has sought to market and deliver treated wastewater effluent to users who can utilize the reclaimed water, and thereby generate revenue which will offset the cost of wastewater treatment for TRA's customers. The sale of water to DCURD at Las Colinas is a good example. With TRA's high quality discharge removing 99% of traditional pollutants and water supplies becoming more critical, the value of effluent gets more valuable. In the Region C Water Planning process, reuse is an essential strategy in the long-term supply alternatives for cities, agencies, and water supply districts in the Upper Trinity River Basin. Most of the public water supply agencies in the Dallas-Fort Worth area have filed applications with the Texas Environmental Quality Commission (TCEQ) for effluent reuse. Some of these permits apply for the same effluent. Efforts to resolve the conflicts and differences between competing applications have been ongoing for some time. Compounding the problem is the uncertainty how TCEQ will resolve several major policy issues surrounding the reuse of effluent. The Commission has not formulated a clear policy.

Because of early conflicts among a group of entities in the upper Trinity River, there has been an effort to resolve differences mutually. The parties involved are: TRA, Tarrant Regional Water District (TRWD), North Texas Municipal Water District (NTMWD), City of Dallas, and City of Houston. These parties have been conducting hydrological studies for almost two years and are trying to develop an agreement or mutual understanding of how reuse permits can be issued without negatively impacting any one party's water rights interests.

One unresolved issue relates to the permit applications filed by TRWD and TRA for effluent reuse. TRWD's permit application proposes to withdraw water from the Trinity River near Corsicana, achieve some level of treatment through a constructed wetlands area, and then pump the water into Richland Chambers Lake, and eventually Cedar Creek Lake, to increase the raw water supply for their Tarrant County raw water customers. The permit application relies upon effluent from TRA wastewater plants, as well as effluent discharged from Fort Worth's Village Creek Wastewater Treatment plant. For various reasons, TRWD's permit develops a relationship between water that originates from their lakes but is treated and discharged as effluent by other entities.

MEMBERS, Advisory Committee
August 5, 2003
3110.102
Page 2

The City of Fort Worth, TRA, and the TRWD have discussed an arrangement whereby TRWD would enter into a contract with TRA and Fort Worth to purchase the effluent from each wastewater treatment agency to insure available water for withdrawal from the Trinity River. The pricing and terms of the contracts have not been determined, pending a study being conducted by a consultant to TRWD. The consultant's charge is to make an economic analysis of the value of the effluent. In addition, ongoing discussions with TCEQ about reuse also involve the issue of effluent ownership. Any contracts between TRA, Fort Worth, and TRWD must also address the larger issue of reuse by other entities as well as satisfying Houston's downstream water interests. When all of these issues are settled, then the existing permit applications should be able to proceed without protest. The City of Irving filed a protest to some of the permits, including TRA's application; and other cities and agencies in Texas are involved. All water rights interests must be considered by the TCEQ in any final decisions.

TRA management wanted to keep you advised as issues surrounding reuse continue to develop.



WARREN N. BREWER
Regional Manager
Northern Region

WNB/cea



Northern Region Office

August 30, 2002

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

NOTICE – Tuesday, September 10, 2002 at 11 a.m.
MEETING PLACE – Central Regional Wastewater Treatment Plant
6500 West Singleton Blvd, Grand Prairie, Texas

A meeting of the Central Regional Wastewater System Advisory Committee has been scheduled for 11 a.m., Tuesday, September 10, 2002, at the **Central Regional Wastewater Treatment Plant in Grand Prairie, at 6500 West Singleton Blvd.** Lunch will be served immediately following the meeting. Please RSVP to Cheryl Abbott before Friday, September 6, 2002, at 817-493-5100 or abbottc@trinityra.org.

The purpose of this meeting will be the recommendation of the proposed FY 2003 System Operations and Maintenance Budget for approval by the Authority's Board of Directors at their October meeting. The proposed budget was presented in the August 13th Advisory Committee and a Budget Workshop was held on Monday, August 26, 2002. We believe all questions about the budget have been answered.

We have enclosed an agenda and minutes of the August 13, 2002 meeting for your review prior to the September 10th meeting. We encourage each party served by the System to send a representative to this meeting.

A handwritten signature in cursive script that reads "Warren N. Brewer/cea".

WARREN N. BREWER
Regional Manager
Northern Region

RSVP'd
9-5-02

WNB/cea

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations
Bill Tatum, Manager, CRWS



**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

AGENDA
CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
TUESDAY, SEPTEMBER 10, 2002 at 11 A.M.

I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Elzie Odom	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Bill Lindley	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Terrace Stewart	_____
D/FW Airport	Mr. Jim Crites	_____
Duncanville	Mr. Kent Cagle	_____
Eules	Councilmember Glenn Porterfield	_____
Farmers Branch	Councilmember Paul Walden	_____
Fort Worth	Mr. Dale Fisseler	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Councilmember James Dickens	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Blake Evans	_____
N. Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Mr. Danny F. Vance Director Hector Escamilla, Jr.	_____

III. Introduction of Guests, Consultants and Authority Staff

IV. Approval of Minutes of the August 13, 2002 Meeting

- V. **Status Reports**
 - A. Operations
 - B. Financial
 - C. Regulatory
 - D. Capital Improvement Planning

- VI. **Action: Proposed FY 2003 Operating and Maintenance Budget**
 - A. Review of Budget Philosophy, Strategies, Objectives, and Contents
 - B. Committee Action on Proposed FY 2003 Budget

- VII. **Other Business**

- VIII. **Adjourn to Lunch**

CMOM
Capacity
Management
Operation
Maintenance



**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

MINUTES

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
TUESDAY, AUGUST 13, 2002, 10:30 A.M.**

I. **Call to Order** – Chairman Gravley called the meeting to order at 10:40 a.m.

II. **Roll Call**

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Jim Pierce f/Mr. Michael Murphy	Present
Arlington	Mr. Charles Anderson f/Mayor Elzie Odom	Present
Bedford	Ms. Mirenda McQuagge f/Councilmember Jim Griffin	Present
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Mr. Jim Sparks f/Mr. Greg Porter	Present
Colleyville	Mr. Bill Lindley	Absent
Coppell	Mr. Ken Griffin	Absent
Dallas	Mr. Mike Mikeska f/Mr. Terrace Stewart	Present
D/FW Airport	Mr. Rusty Hodapp f/Mr. Jim Crites	Present
Duncanville	Mr. Dennis Swartz f/Mr. Kent Cagle	Present
Eules	Councilmember Glenn Porterfield	Present
Farmers Branch	Councilmember Paul Walden	Present
Fort Worth	Mr. Dale Fisseler	Absent
Grand Prairie	Councilmember Richard Fregoe	Present
Grapevine	Mr. Matt Singleton f/Mr. Jerry Hodge	Present
Hurst	Mr. Ron Haynes	Present
Irving	Councilmember James Dickens	Present
Keller	Mr. Ed IIschner	Absent
Mansfield	Mr. Bud Ervin f/Councilmember Blake Evans	Present
North Richland Hills	Mr. David Smyth f/Mr. Mike Curtis	Present
Southlake	Mr. Pedram Farahnak	Present
Trinity River Authority	Mr. Danny F. Vance Director Hector Escamilla, Jr.	Present Present

III. **Introduction of Guests, Consultants and Authority Staff**

TRA staff present were: Warren Brewer, Patricia Cleveland, John Owens, John Nelson, Randy Brooks, Cheryl Abbott, Sam Scott, John Jadrosich, Alison Mackey, Bill Tatum, Bill Cyrus, and Shelley Fialho.

Also Present:

Arlington – Fiona Allen

Carrollton – Stephen Jenkins

Duncanville – Bill Willborn

Eules – Ron Young and Loretta Getchell

Farmers Branch – Mark Velton and Roy Smallwood

Grand Prairie – Ron McCuller

Irving – Steve McCullough, Sandy Cash, David Ryburn, Cliff Miller, and Doug Caroom,

Southlake – Mike Patterson

First Southwest Company – Boyd London

Black & Veatch – Kelly Loyd

Alan Plummer – Alan Plummer

Freese & Nichols - Ray Longoria

IV. **Approval of Minutes of the September 11, 2001 Meeting**

Chairman Gravley asked if there were any changes to the minutes of the September 11, 2001 meeting. There being none, Charles Anderson motioned to accept the minutes as presented, Bud Ervin seconded the motion, and a unanimous vote followed.

V. **Status Reports**

- A. Operations -- Bill Tatum reviewed the System flows, effluent quality, and System activities for the time frame of September 11, 2001 to present. He noted that year to date rainfall has been 31 inches.
- B. Financial -- Patricia Cleveland reported that adjustments for the FY 2001 actual expenditures were mailed to parties in late May, with either an invoice or a check, and that this was the 4th year that the I/I adjustment method had been used. She noted that the FY 2002 mid-year reallocation notices had recently been mailed. Ms. Cleveland stated that we were about 66% into the FY 2002 budget year and if there are no other emergency expenditures, the System should end the year within the budget.
- C. Regulatory -- Patricia Cleveland noted that the discharge permit expires this fall and an amendment application is presently being prepared; that the TNRCC had audited the System's industrial pretreatment program and based on verbal feedback, overall, TNRCC had been pleased; and that the TNRCC staff was still holding our modified pretreatment program, including the city ordinances and enforcement response plans.
- D. Capital Improvement Planning
 - (1) Planning, Design, Construction
 - (2) Series 2001 and upcoming Series 2003 SRF BondsRandy Brooks presented images showing System projects being designed and under construction, and discussed the handout material furnished to each attendee. Mr. Brooks said that we had been using the 1995 I/I report as a guide for prioritizing projects and bond sales, but that we were anticipating a new report by the end of this year. He continued that with the currently planned master plan study for the plant and with the new I/I report, staff will report again in 2003 about a possible bond sale. There was a brief discussion on plant capacity, current bond issues, and refundings, in addition to future bond issues.

VI. **Discussion: Presentation of Proposed FY 2003 Operating and Maintenance Budget**

- A. Budget Philosophy and Strategies
- B. System Flows and Allocations
- C. Budget Objectives
- D. Detailed Budget Review

Mr. Brewer described the budget process and stated that the budget would be presented at this meeting, a budget workshop was scheduled for August 26th for any parties that wanted to attend, and that another Advisory Committee meeting was scheduled for September 10th, when staff would ask for the Committee's approval of the proposed budget. Patricia Cleveland gave a power point presentation detailing the proposed FY 2003 Central Regional Wastewater System's FY 2003 Operational and Maintenance Budget. There were discussions on insurance cost, odor control, and electrical power contract cost.

VII. **Discussion: City of Irving's Request for a Contract Modification Related to Water Reuse Rights**

Mr. Brewer advised members that the City of Irving had requested an opportunity to present a request to the Advisory Committee to seek the Committee's support in amending their Central System Contract with TRA so as to allow the City to re use the water, after treatment and after being released from the treatment plant into the Trinity River, which the City discharges into the System, and which originates from the City's water rights in Lake Chapman in Northeast Texas. He noted that all 21 parties of the Central System have contractual provisions which pledge title and ownership of wastewater discharged into the system to TRA, consistent with a 1957 Texas statutory provision which grants TRA the ownership of all wastewater received for treatment in all wastewater treatment systems. He noted that Irving and TRA management had discussed the City's request for the past two years, but that TRA management had not agreed to support the request unless the Advisory Committee agreed. He then noted that TRA management had offered the City an opportunity to seek the Advisory Committee's support, as a necessary prerequisite to amending the contract, and if the Committee agreed to support Irving's request, TRA would pursue doing so.

Irving Councilman James Dickens described the City's desire to acquire the right to re use the water which they discharge into the CRWS as an additional source of water for the future. City Manager Steve McCullough then gave details about the City's water rights in Lake Chapman, the partnership arrangements made to move that water into Lake Lewisville and on into Dallas' Elm Fork Water Treatment plant, and the high cost of moving that water into a position which would allow its use by Irving. He noted that the City would have their future water supply needs completely covered if they could also acquire the rights to use the portion of the Central System's effluent which the City of Irving contributes. He then asked their Austin based water rights attorney, Doug Caroom, to add comments from a legal perspective.

Mr. Caroom then provided a written proposal to Members and TRA staff which proposed an arrangement in which TRA-CRWS would pay a discounted rate to Irving for Irving's Lake Chapman water, as a means of preserving a first option for TRA's use, and which provided that Irving could call an option for the water, when they needed it. Mr. Caroom asked the Committee's endorsement of the request, noting that the water to be imported from Lake Chapman fits the State's definition of being a "Developed " water source, by being imported from another river basin, and under SB1 laws passed in 1997, could be made available for a party's use by a permit granted by the TNRCC. He noted that Irving had filed a water rights permit application with the TNRCC for this water, adding that it would compete with the permit application previously filed by TRA in 1999 for all wastewater discharged from TRA plants. He noted that the statutory provision enacted in 1957 granting TRA the ownership of all wastewater would not be a conflict if the 1973 TRA-Irving contract could be amended so as to allow the City to utilize this water, and if the Committee agreed to this request and TRA agreed to amend the contract, the conflicting parts of the two permit applications would be resolved peacefully.

Mr. Vance then described the City of Irving's efforts during the 2001 Texas legislative session in filing a bill, sponsored by Rep. Will Hartnett, amending TRA's enabling legislation to remove TRA's ownership of the water which Irving wishes to use. He noted that after the bill had been filed, that he and Mr. McCullough had come to an agreement that if the bill was removed from further consideration, Irving would be given an opportunity to present the request to the Advisory Committee and pursue the issue in a non-legislation format. He noted that the Advisory Committee would have to approve the request before TRA would be agreeable to amend the contract, since the City of Irving was requesting something which the other 20 parties of the CRWS (as well as the other four regional wastewater systems owned and operated by TRA) do not have. He also described the reuse permit application filed by TRA in 1999, noting that many other parties around the state have also filed for reuse permits and that the TNRCC has not yet resolved how to address them all.

Following a discussion, the Advisory Committee members generally agreed that more information was needed before there was comfort in considering the request, and suggested that TRA management and Irving management continue with more discussions, and that TRA management report back to the Committee with results at a later date. Councilman Paul Walden of Farmers Branch made a motion that TRA management continue with discussions with Irving representatives about equity consideration for this water right, and Jim Pierce of Addison seconded the motion. After a discussion clarified that the motion was intended to apply to continuing discussions only, and would not result in an agreement until the proposal was brought back to the Advisory Committee, the motion passed with one opposing vote by Southlake representative Pedram Farahnak. TRA management agreed to continued discussions with Irving, but noted that it might take a while to resolve and likely would not be ready for consideration by the upcoming scheduled September 10th meeting.

VIII. **Other Business**

None

IX. **Adjourn to Lunch**

There being no other business, the meeting was adjourned at 12:40 p.m. and attendees were invited to remain for lunch.

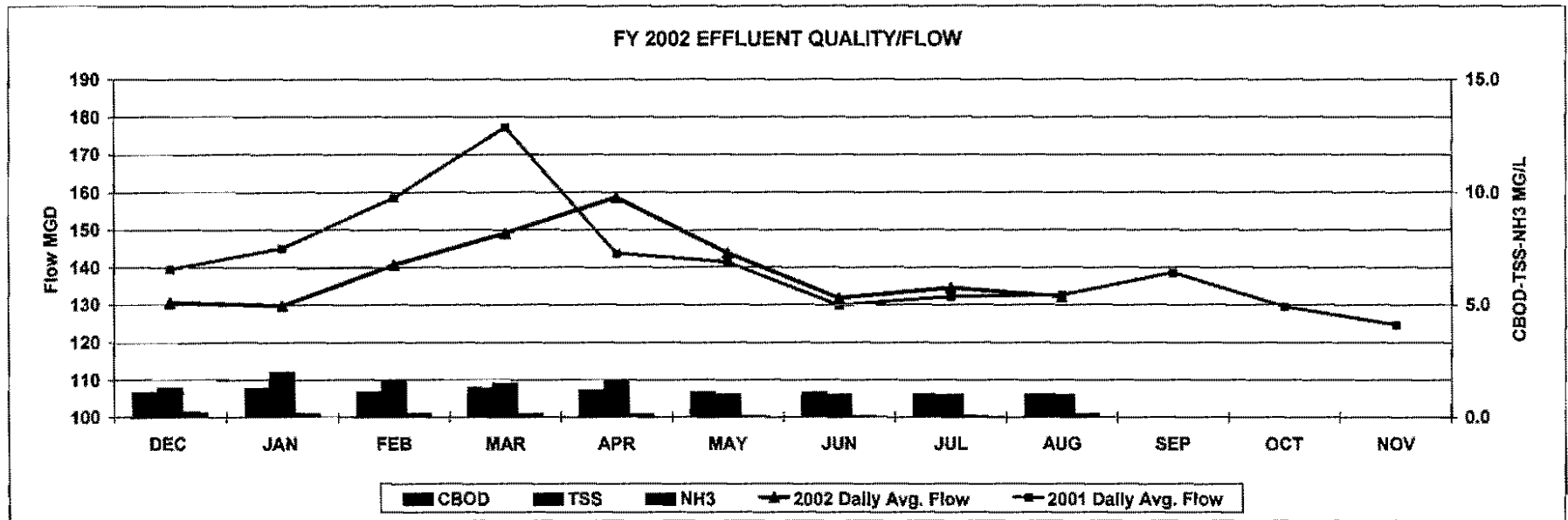
CENTRAL REGIONAL WASTEWATER SYSTEM FY 2002

PERMITS NO: 10303-001 (TX0022602)

	FLOW ANNL.AVG	FLOW DLY.AVG.	FLOW DLY.MAX.	FLOW 2-HR PK	FLOW 2-HR PK	RAINFALL TOTAL	CBOD DLY.AVG.	CBOD DLY.MAX.	CBOD DLY.AVG.	TSS DLY.AVG.	TSS DLY.MAX.	TSS DLY.AVG.	NH3 DLY.AVG.	NH3 DLY.MAX.	NH3 DLY.AVG.	DO MIN.	pH MAX.	pH MIN.	CL2 MIN.	CL2 OUTFALL	COLLECT. SYSTEM	
PERMIT LIMIT:	162 MGD	REPORT MGD	REPORT MGD	281250 GPM	MGD	INCHES	7 MGL	17 MGL	9458 LBS/DAY	15 MGL	40 MGL	20265 LBS/DAY	2/4 MGL	7 MGL	2702/5404 LBS/DAY	6 MG/L	8 S.U.	8 S.U.	1 MG/L	.089 MG/L	NO. OF OUTFLOWS	
DEC	140.159	130.540	208.090	166634	238.369	3.420	1.1	2.0	1181.4	1.3	2.0	1470.1	0.227	1.231	289.2	8.2	7.3	6.9	1.04	0.00	2	
JAN	138.861	129.630	216.630	175093	252.134	4.320	1.3	2.0	1415.6	2.0	3.0	2149.3	0.161	0.655	176.8	8.6	7.2	6.9	1.07	0.00	0	
FEB	137.479	140.601	206.390	187581	241.288	2.27	1.1	2.0	1383.0	1.6	3.0	1901.6	0.166	0.890	231.9	8.8	7.6	6.6	1.02	0.00	3	
MAR	135.083	148.985	265.920	215513	310.339	8.55	1.3	6.0	1791.7	1.6	8.0	2150.6	0.184	0.846	245.3	7.6	7.5	6.6	1.08	0.00	6	
APR	136.312	168.595	261.930	197688	284.524	7.19	1.2	3.0	1804.0	1.6	10.0	2567.9	0.166	0.482	214.1	8.3	7.3	7.0	1.02	0.00	3	
MAY	136.526	143.760	205.610	187732	241.634	7.65	1.1	3.0	1304.8	1.0	1.0	1199.0	0.066	0.318	71.8	7.9	7.4	7.0	1.04	0.00	1	
JUN	136.688	131.860	141.250	113607	163.694	12.00	1.1	4.0	1246.4	1.0	1.0	1098.1	0.064	0.163	70.6	7.2	7.3	7.0	1.15	0.00	0	
JUL	136.932	134.391	160.880	119989	172.784	4.61	1.0	2.0	1160.7	1.0	1.0	1125.4	0.066	0.215	75.5	7.5	7.4	6.9	1.08	0.00	0	
AUG	136.893	132.062	145.240	128083	184.440	6.84	1.0	1.0	1101.4	1.0	2.0	1138.4	0.131	0.860	144.3	6.8	7.4	6.9	1.13	0.00	1	
SEP																						
OCT																						
NOV																						
AVG	137.214	138.915	201.316	181189	232.112	6.21	1.1	2.8	1352.3	1.3	3.4	1644.6	0.137	0.614	168.7	7.9	7.4	6.9	1.07	0.00	TOTAL: 16	
MAX	140.159	168.595	265.920	215513	310.339	12.00	1.3	6.0	1791.7	2.0	10.0	2567.9	0.227	1.231	289.2	8.8	7.6	7.0	1.15	0.00		
MIN	135.083	129.630	141.250	113607	163.694	2.27	1.0	1.0	1101.4	1.0	1.0	1098.1	0.056	0.163	70.6	6.8	7.2	6.6	1.02	0.00		
TOTAL	1234.823	1250.234				55.65						12170.9			14800.3							

80% FLOW = 146.600 MGD
75% FLOW = 121.600 MGD

* EXCURSIONS: 0 TNRCC
0 EPA







TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM

AGENDA

FY 2003 BUDGET WORKSHOP
CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
MONDAY, AUGUST 26, 2002, 10 A.M.

- I. Introduction of Attendees
- II. Central Regional Wastewater System Background
 - A. Historical Development of System
 - B. Service Contract Highlights
 - C. Facilities Description
- III. System Development Planning, Design, and Construction
 - A. 1998 Five-Year Plan and 2000 Update
 - B. Series 1998A, 1998B, and Series 2001 Revenue Bonds
 - C. Current Design and Construction
- IV. Investment Officer's Report
- V. TRA Overall Budget Development
- VI. FY 2002 Current Year Budget
 - A. Flow Projection and Analysis
 - B. Actual Monthly Flow Distribution
 - C. Mid-Year Assessment/Reallocation
 - D. End-of-Year Settle-up
- VII. FY 2003 Budget
 - A. System Flows and Allocation
 - B. Budget Objectives
 - C. Overview of Revenues and Expenditures
- VIII. Question and Answer Session
- IX. Adjourn to Lunch

*Cost to
addition*

03 *02*
0.996/1000 gal *0.949/1000 gal*
increase of *4.9%*

FOLLOWING LUNCH, THERE WILL BE AN OPPORTUNITY FOR DISCUSSING ANY SPECIFIC AREA OF THE BUDGET OF CONCERN, EITHER INDIVIDUALLY, OR AS A GROUP, FOR THOSE WHO WISH TO DO SO.





**CHAPTER III
Interceptor Relief
Improvements**

Introduction

The Authority currently owns and operates approximately 200 miles of interceptors within the Central Regional Wastewater System. A comprehensive infiltration and inflow (I&I) assessment was completed by the Authority and its consultant (Black and Veatch, Corporation) in 1996. This comprehensive planning effort identified and prioritized interceptor relief improvements needed system-wide. The investigation formed the basis for proceeding with detailed design and easement acquisition for a number high priority projects, and continues to form the basis for proceeding with a number of major relief improvements.

Interceptor Relief Improvements

The following table provides an opinion of probable cost for each of the proposed interceptor relief projects for both the current (Series 2001) bond program and for the proposed future (Series 2003) bond programs.

Interceptor Relief Improvements										
Segment	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
BC-2A						\$ 42,000	\$ 56,000			\$ 98,000
BC-3						\$ 57,300	\$ 76,400			\$ 133,700
BC-4	\$ 8,700				\$ 8,700	\$ 17,400	\$ 34,800	\$ 174,000	\$ 6,960	\$ 233,160
EF-1	95 bond	'95						\$ 14,000,000	\$ 600,000	\$ 14,600,000
EF-2	95 bond	'95						\$ 20,500,000	\$ 840,000	\$ 21,340,000
EF-6	98 bond	'98						\$ 5,000,000	\$ 250,000	\$ 5,250,000
MC-3	\$ 205,650				\$ 205,650		\$ 274,200	\$ 1,371,000	\$ 54,840	\$ 1,700,040
MC-4A	98A bond	'98B	\$10,000,000	\$ 500,000	\$10,500,000					
MC-4B	98A bond	'98B	\$ 9,000,000	\$ 380,000	\$ 9,380,000					
WF-1	98 bond	'98	\$19,600,000	\$ 980,000	\$20,580,000					
WF-3	98 bond	'98						\$ 11,000,000	\$ 550,000	\$ 11,550,000
WF-5	\$ 24,800				\$ 24,800	\$ 98,000	\$ 111,220	\$ 716,000	\$ 30,000	\$ 955,220
WF-6B	\$ 36,250				\$ 36,250	\$ 72,500	\$ 145,000	\$ 725,000	\$ 29,000	\$ 971,500
WF-G	95 bond	'95	\$ 2,200,000		\$ 2,200,000					
WF-10	\$ 38,000				\$ 38,000		\$ 51,000	\$ 255,000	\$ 10,200	\$ 316,200
WF-11A	98A bond	'98B					\$2,500,000	\$ 100,000	\$2,600,000	\$ 5,200,000
WF-11B	98A bond	'98B	\$ 2,000,000	\$ 80,000	\$ 2,080,000					
Totals	\$ 313,400	\$ -	\$42,800,000	\$ 1,940,000	\$45,053,400	\$287,200	\$3,248,620	\$ 53,841,000	\$4,971,000	\$ 62,347,820



CHAPTER IV

Rehabilitation Improvements

The recommended rehabilitation improvements consist of both interceptor and manhole rehabilitation as well as rehabilitation of the Kirby Creek Outfall. The purpose of the rehabilitation improvements is to reduce I/I flow and to accomplish major structural repairs needed to restore structural integrity of the pipeline. The need for these improvements is based on the findings of field inspections. The table below presents engineering and surveying costs, land rights, construction costs, and inspection costs currently projected for the rehabilitation improvements. All of the rehabilitation projects are recommended for the Series 2001 bond. Two of these projects are also recommended for further funding under the next bond issue.

Rehabilitation Improvements										
Segment	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
<i>Kirby Creek Outfall (27,000 ft)*</i>	'98A bond	'98B bond	\$1,800,000	\$ 72,000	\$1,872,000					
<i>Interceptor Rehabilitation</i>	\$ 90,000		\$ 450,000		\$ 540,000			\$1,718,000		\$1,718,000
<i>MCKC Rehab 1160J to 1270J</i>	\$ 30,000		\$ 200,000		\$ 230,000					
<i>MC Junc. Box @ 60M to 70M</i>	\$ 30,000		\$ 200,000		\$ 230,000					
<i>BC II & III Rehab/CO-1 & GV-4*</i>	'98A bond		\$1,500,000	\$ 150,000	\$1,650,000					
<i>Jefferson Ave. (15,000 ft)</i>	\$100,000		\$ 200,000		\$ 300,000			\$ 711,000	\$28,000	\$ 739,000
Totals	\$250,000	\$ -	\$4,350,000	\$ 222,000	\$4,822,000			\$2,429,000	\$28,000	\$2,457,000

*Funding to supplement 1998 bond proceeds.



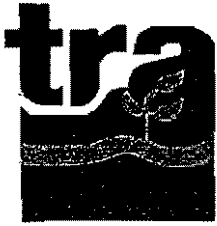
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Segment	Rehabilitation Improvements									
	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
<i>Kirby Creek Outfall (27,000 ft)*</i>	'98A bond	'98B bond	\$1,800,000	\$ 72,000	\$1,872,000					
<i>Interceptor Rehabilitation</i>	\$ 90,000		\$ 450,000		\$ 540,000			\$1,718,000		\$1,718,000
<i>MCKC Rehab 1160J to 1270J</i>	\$ 30,000		\$ 200,000		\$ 230,000					
<i>MC Junc. Box @ 60M to 70M</i>	\$ 30,000		\$ 200,000		\$ 230,000					
<i>BC II & III Rehab/CO-1 & GV-4*</i>	'98A bond		\$1,500,000	\$ 150,000	\$1,650,000					
<i>Jefferson Ave. (15,000 ft)</i>	\$100,000		\$ 200,000		\$ 300,000			\$ 711,000	\$28,000	\$ 739,000
Totals	\$250,000	\$ -	\$4,350,000	\$ 222,000	\$4,822,000			\$2,429,000	\$28,000	\$2,457,000

*Funding to supplement 1998 bond proceeds.



CHAPTER V Erosion Control Improvements

The Central Regional Wastewater System (CRWS) includes a wastewater collection network of approximately 200 miles of pipelines ranging in size from 12 inches in diameter to 102 inches in diameter. In order to provide economical, gravity-flow service to the system's customer cities, many of these pipelines have been located adjacent to natural streams, rivers, and drainage ditches. Erosive forces due to development, flooding, unstable soils, and other factors regularly alter the configuration of streambanks throughout the North Texas region. When erosion causes the streambanks to advance toward a buried pipeline, the pipelines can fail structurally if corrective actions are not taken in a timely manner.

For each of the sites for which action is proposed under the current bond series, a brief description of the erosion problems at the site are presented in the table below. The table also presents the proposed funding amounts for each site. A number of additional sites are slated for continued monitoring or for repair by TRA crews using operation and maintenance funding.

Erosion Control Improvements										
Project Description	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
108 NFFC/Sta 78+25/shallow cover	\$ 7,500	\$10,000	\$ 50,000	\$ 2,000	\$ 69,500					
121 WFXJC Sta. 92+00	\$ 7,500	\$10,000	\$ 50,000	\$ 2,000	\$ 69,500					
111 WFXIAI Sta 73+00 & 62+72 54+06	'98 bond	'98 bond	\$ 100,000	\$ 4,000	\$ 104,000					
124 DCURD exposed pipe, replacement in progress*	'92 bond							\$500,000	\$20,000	\$ 520,000
137 BCHIA Sta 40+00	'98 bond	'98 bond	\$ 100,000	\$ 4,000	\$ 104,000					
TOTAL	\$15,000	\$20,000	\$ 300,000	\$12,000	\$ 347,000			\$500,000	\$20,000	\$ 520,000

*To be constructed with EF-2 Interceptor Capacity Relief Project.



CHAPTER VI I/I Management and Maintenance Activities

The comprehensive Inflow/Infiltration (I/I) Assessment completed by the Authority in 1996 recommended a continuing program of inspection and I/I management activities as well as a number of interceptor "maintenance" activities. The table below lists the engineering and surveying costs, land rights costs, construction costs, and inspections costs currently projected for the rehabilitation improvements. These costs are outlined in further detail in the 1996 report entitled Infiltration/Inflow Assessment - Phase II - Infiltration/Inflow Management Plan.

I&I Management and Maintenance Activities										
Project Description	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
<i>I/I Management Activities</i>	\$ 900,000				\$ 900,000	\$ 975,000				\$ 975,000
<i>Collection System GIS</i>	\$ 450,000				\$ 450,000					
<i>Interceptor Maintenance(\$2.5M BC II Rehab)</i>	\$ 70,000		\$ 945,000	\$ 20,000	\$ 1,035,000					
Totals	\$1,420,000	\$ -	\$ 945,000	\$ 20,000	\$ 2,385,000	\$ 975,000				\$ 975,000

The I/I Assessment developed a list of recommended activities to help focus future I/I management efforts. These activities include long-range engineering and planning, system modeling improvements, inventory and inspection database upgrades, digital photo mapping, coordination of I/I management activities with customer city control programs, and initiation of a system-wide geographic information system. It is anticipated that many of the recommended activities will be implemented by TRA personnel using O&M funds.



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I&I Management and Maintenance Activities										
Project Description	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
<i>I/I Management Activities</i>	\$ 900,000				\$ 900,000	\$ 975,000				\$ 975,000
<i>Collection System GIS</i>	\$ 450,000				\$ 450,000					
<i>Interceptor Maintenance(\$2.5M BC II Rehab)</i>	\$ 70,000		\$ 945,000	\$ 20,000	\$ 1,035,000					
Totals	\$1,420,000	\$ -	\$ 945,000	\$ 20,000	\$ 2,385,000	\$ 975,000				\$ 975,000

The I/I Assessment developed a list of recommended activities to help focus future I/I management efforts. These activities include long-range engineering and planning, system modeling improvements, inventory and inspection database upgrades, digital photo mapping, coordination of I/I management activities with customer city control programs, and initiation of a system-wide geographic information system. It is anticipated that many of the recommended activities will be implemented by TRA personnel using O&M funds.



CHAPTER VII Treatment Plant Improvements

The Central Regional Wastewater System (CRWS) treatment plant is an advanced secondary facility currently permitted to treat 162 million gallons per day (MGD). The last major expansion of the facility was completed in 1990. Design of the next major expansion is anticipated to begin approximately in year 2005. Treatment plant improvements funded through the series 2001 and 2003 bonds are generally aimed at rehabilitation or replacement of aging structures, improving the plant's operating efficiency, or controlling odors for the benefit of the surrounding community. Major improvements proposed for funding in the next five years are listed in the following table:

Treatment Plant Improvements										
Project Description	2001 Bond Series					2003 Bond Series				
	Engineering	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
PS 6/6A Bar Screens	\$ 250,000		\$ 2,800,000	\$ 80,000	\$ 3,130,000					
Effluent Filters Rehab	\$ 80,000		\$ 1,875,000	\$ 36,000	\$ 1,991,000					
RAS & 60" X-connection						\$ 50,000		\$ 400,000	\$ 16,000	\$ 466,000
Replace RAS pumps						\$ 20,000		\$ 260,000	\$ 16,000	\$ 296,000
Sludge Stabilization (Class A)	\$ 100,000		\$ 1,500,000	\$ 40,000	\$ 1,640,000					
4th Belt Press						\$ 30,000		\$ 400,000	\$ 30,000	\$ 460,000
Control System Automation	\$ 200,000		\$ 2,800,000	\$ 40,000	\$ 3,040,000	\$ 200,000		\$ 2,300,000	\$ 20,000	\$ 2,520,000
Stage VMI Odor Control	\$ 400,000	\$ 40,000	\$ 2,500,000	\$ 100,000	\$ 3,040,000			\$ 2,000,000	\$ 80,000	\$ 2,080,000
Low Voltage Elec. System						\$ 200,000		\$ 1,500,000	\$ 100,000	\$ 1,800,000
Chemical Usage Evaluation	\$ 25,000				\$ 25,000					
Fine Bubble Mem. Diffusers			\$ 140,000	\$ 30,000	\$ 170,000					
Capacity Evaluation & Master Plan Update	\$ 238,000				\$ 238,000	\$ 750,000		\$ 10,000,000	\$ 250,000	\$ 11,000,000
Gravity Disch./Flow PS 7&7A	\$ 50,000				\$ 50,000			\$ 1,500,000	\$ 50,000	\$ 1,550,000
Energy Conservation Eval.	\$ 100,000				\$ 100,000					
PS 6 Raw Water Pump Study	\$ 100,000				\$ 100,000			\$ 1,260,000	\$ 50,000	\$ 1,310,000
Sludge Blend Tank	\$ 75,000		\$ 1,000,000	\$ 60,000	\$ 1,135,000					
Purchase Rail Spur		\$ 350,000			\$ 350,000					
Blower Bldg.- replace gas motors						\$ 20,000		\$ 146,000	\$ 10,000	\$ 176,000
Totals	\$1,618,000	\$390,000	\$12,615,000	\$386,000	\$15,009,000	\$ 1,270,000		\$19,766,000	\$622,000	\$21,658,000



CHAPTER VIII

Meter Station Improvements

The Central Regional Wastewater System meters wastewater flow from each of the customer cities discharging into its interceptor system. The flow measurements are used to determine the proportionate use of the system by each contracting party. This proportion is applied to the total system costs to determine each party's prorated share of these costs. As a secondary benefit, these measurements enable the CRWS to observe flow conditions in individual interceptor segments and identify where potential relief interceptors may be needed.

The following table presents the engineering and surveying costs, land rights costs, construction costs and inspection costs currently projected for the meter station improvements to be funded in the 2001 bond series.

Meter Station Improvements					
Project Description	2001 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond
1.0B Improve access	\$ 3,000	\$ 10,000	\$ 20,000	\$ 800	\$ 33,800
4.6B Improve access	\$ 3,000	\$ 15,000	\$ 20,000	\$ 800	\$ 38,800
12.8B Replace Gates	\$ 750		\$ 5,000	\$ 200	\$ 5,950
13.3E Improve rain access; upsized primary element	\$ 12,000	\$ 15,000	\$ 80,000	\$ 3,200	\$ 110,200
9.0J Relocate meter & piping for flow imp.	\$ 7,500		\$ 50,000	\$ 2,000	\$ 59,500
6.0W Improve access		\$ 10,000	\$ 25,000	\$ 1,000	\$ 36,000
1382 NE Lakeview MS (moved to O&M)	\$ 20,000	\$ 20,000	\$ 150,000	\$ 6,000	\$ 196,000
Totals	\$ 46,250	\$ 70,000	\$ 350,000	\$ 14,000	\$ 480,250



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The following table presents the engineering and surveying costs, land rights costs, construction costs and inspection costs currently projected for the meter station improvements to be funded in the 2001 bond series.

Meter Station Improvements					
Project Description	2001 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond
1.0B Improve access	\$ 3,000	\$ 10,000	\$ 20,000	\$ 800	\$ 33,800
4.6B Improve access	\$ 3,000	\$ 15,000	\$ 20,000	\$ 800	\$ 38,800
12.8B Replace Gates	\$ 750		\$ 5,000	\$ 200	\$ 5,950
13.3E Improve rain access; upsize primary element	\$ 12,000	\$ 15,000	\$ 80,000	\$ 3,200	\$ 110,200
9.0J Relocate meter & piping for flow imp.	\$ 7,500		\$ 50,000	\$ 2,000	\$ 59,500
6.0W Improve access		\$ 10,000	\$ 25,000	\$ 1,000	\$ 36,000
1302 NE Lakeview MS (moved to O&M)	\$ 20,000	\$ 20,000	\$ 150,000	\$ 6,000	\$ 196,000
Totals	\$ 46,250	\$ 70,000	\$350,000	\$14,000	\$ 480,250



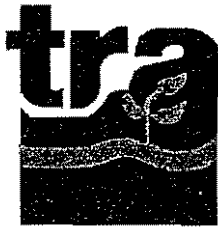


CHAPTER IX

Other Capital Improvements

The table below presents projected costs for a number of system-wide planning and management activities associated with the proposed Series 2001 and 2003 bond programs. Funding for future long-term system planning is suggested for each bond program, as is an appropriate escalation allowance to account for anticipated inflationary pressures during the period in which the bond program will be implemented.

Other Capital Improvements										
Segment	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
Long Range Planning	\$ 75,000				\$ 75,000	\$75,000				\$ 75,000
TXDOT Pipeline Adjustments	\$ 200,000		\$1,500,000	\$ 60,000	\$ 1,760,000		\$ 50,000	\$1,000,000	\$40,000	\$ 1,090,000
Totals	\$ 275,000		\$1,500,000	\$ 60,000	\$ 1,835,000	\$75,000	\$ 50,000	\$1,000,000	\$40,000	\$ 1,165,000



CHAPTER X Cost Summary

The table below summarizes the cost associated with each category of improvements proposed for both the current (Series 2001) bond program and for the proposed future (Series 2003) bond program.

Our opinion of probable capital costs (including easement acquisition, engineering/surveying, construction, and inspection) for all improvements proposed for funding in the Series 2001 bond program is \$74.8 million. This includes \$4,830,000 for additional costs associated with SRF funding requirements (environmental assessments, program management and administration, and other cost considerations). A future bond sale (capital costs totaling approximately \$89.1 million) is envisioned in approximately the year 2003. The proposed interceptor relief improvements comprise approximately 61% of the total proposed Series 2001 bond program. It is anticipated that interceptor system improvements will comprise the majority of the anticipated Series 2003 bond program as well.

OPINION OF PROBABLE CAPITAL COSTS

Improvements	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
Interceptor Relief Improvements	\$ 313,400		\$42,800,000	\$1,940,000	\$ 45,053,400	\$ 287,200	\$3,248,620	\$53,841,000	\$4,971,000	\$ 62,347,820
Rehabilitation Improvements	\$ 250,000	\$ -	\$ 4,350,000	\$ 222,000	\$ 4,822,000			\$ 2,429,000	\$ 28,000	\$ 2,457,000
Erosion Control	\$ 15,000	\$ 20,000	\$ 300,000	\$ 12,000	\$ 347,000			\$ 500,000	\$ 20,000	\$ 520,000
I&I Mgmt and Maintenance	\$1,420,000		\$ 945,000	\$ 20,000	\$ 2,385,000	\$ 975,000				\$ 975,000
Treatment Plant Improvements	\$1,618,000	\$390,000	\$12,615,000	\$ 386,000	\$ 15,009,000	\$1,270,000		\$19,766,000	\$ 622,000	\$ 21,658,000
Meter Station	\$ 46,250	\$ 70,000	\$ 350,000	\$ 14,000	\$ 480,250			\$ -	\$ -	\$ -
Other Capital	\$ 275,000		\$ 1,500,000	\$ 60,000	\$ 1,835,000	\$ 75,000	\$ 50,000	\$ 1,000,000	\$ 40,000	\$ 1,165,000
SRF Additional Costs					\$4,830,000					
Totals	\$3,937,650	\$480,000	\$62,860,000	\$2,654,000	\$ 74,761,650	\$2,607,200	\$3,298,620	\$77,536,000	\$5,681,000	\$ 89,122,820



CHAPTER X Cost Summary

The table below summarizes the cost associated with each category of improvements proposed for both the current (Series 2001) bond program and for the proposed future (Series 2003) bond program.

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OPINION OF PROBABLE CAPITAL COSTS										
Improvements	2001 Bond Series					2003 Bond Series				
	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2001 Bond	Engineering Surveying	Land Rights	Construction	Inspection	TOTAL for 2003 Bond
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Rehabilitation Improvements	\$ 250,000	\$ -	\$ 4,350,000	\$ 222,000	\$ 4,822,000			\$ 2,429,000	\$ 28,000	\$ 2,457,000
Erosion Control	\$ 15,000	\$ 20,000	\$ 300,000	\$ 12,000	\$ 347,000			\$ 500,000	\$ 20,000	\$ 520,000
Facility Mgmt and Maintenance	\$1,420,000		\$ 945,000	\$ 20,000	\$ 2,385,000	\$ 975,000				\$ 975,000
Treatment Plant Improvements	\$1,618,000	\$390,000	\$12,615,000	\$ 386,000	\$ 15,009,000	\$1,270,000		\$19,766,000	\$ 622,000	\$ 21,658,000
Water Station	\$ 46,250	\$ 70,000	\$ 350,000	\$ 14,000	\$ 480,250			\$ -	\$ -	\$ -
Other Capital	\$ 275,000		\$ 1,500,000	\$ 60,000	\$ 1,835,000	\$ 75,000	\$ 50,000	\$ 1,000,000	\$ 40,000	\$ 1,165,000
SRF Additional Costs					\$4,830,000					
Totals	\$3,937,650	\$480,000	\$62,860,000	\$2,654,000	\$ 74,761,650	\$2,607,200	\$3,298,620	\$77,536,000	\$5,681,000	\$ 89,122,820

AGENDA ITEM III-B

TRINITY RIVER AUTHORITY OF TEXAS

SCHEDULE OF DEBT SERVICE REQUIREMENTS TO MATURITY - CENTRAL REGIONAL WASTEWATER SYSTEM

FISCAL YEAR	SERIES 1993	SERIES 1995	SERIES 1998A	SERIES 1998B	SERIES 2001	TOTAL
2003	\$ 18,442,189	\$ 2,380,902	\$ 3,887,132	\$ 4,921,808	\$ 2,857,102	\$ 32,489,133
2004	18,481,520	2,378,152	3,883,873	4,926,558	3,027,102	32,697,205
2005	18,541,430	2,375,902	3,886,012	4,935,808	3,018,435	32,757,587
2006	17,725,030	2,376,863	3,888,063	5,772,737	3,014,695	32,777,388
2007	17,752,510	2,369,250	3,885,910	5,790,587	3,010,700	32,808,957
2008	17,876,075		3,884,470	8,176,013	3,156,535	33,093,093
2009	17,992,375		3,888,475	8,187,388	3,148,215	33,216,453
2010	18,166,813		3,887,465	8,198,212	2,989,575	33,242,065
2011	10,538,375		3,884,925	7,640,761	11,984,900	34,048,961
2012	11,193,000		3,885,460	7,038,662	11,933,555	34,050,677
2013	11,246,500		3,888,460	3,976,563	14,937,155	34,048,678
2014	10,630,250		3,884,873	4,648,575	14,884,540	34,048,238
2015	10,686,500		3,884,573	4,641,750	12,223,380	31,436,203
2016	10,752,000		3,887,020	1,040,000	8,508,300	24,187,320
2017			3,886,660	457,500	8,256,700	12,600,860
2018				456,750	6,601,400	7,058,150
2019					5,991,400	5,991,400
2020					5,542,600	5,542,600
2021						
2022						
2023						
2024						
2025						
2026						
2027						
2028						
2029						
2030						
2031						
2032						
TOTAL	\$ 210,024,567	\$ 11,881,069	\$ 58,293,371	\$ 80,809,672	\$ 125,086,289	\$ 486,094,968

August 7, 2002
(Previous report August 6, 2001)

CENTRAL REGIONAL WASTEWATER SYSTEM DESIGN AND CONSTRUCTION PROJECTS STATUS REPORT

ACTIVE PIPELINE DESIGN PROJECTS

BEAR CREEK INTERCEPTOR SYSTEM

Name: Bear Creek Interceptor, BC-4
Location: City of Colleyville
From Little Bear Creek to north city limit of Bedford
Type/Size: Preliminary Evaluation of 2700 ft. of 8" to 15" diameter parallel relief pipeline
Status: Preliminary Design Contract awarded in June 2001
Preliminary Design Report Contract to be completed by November 2002

ELM FORK INTERCEPTOR SYSTEM

Name: Elm Fork Relief Interceptor, EF-G
Location: Cities of Coppell and Carrollton
Adjacent to Belt Line Road, from Luna Road to Fairway
Type/Size: 48" parallel relief of 6900 ft. of 33" diameter pipeline
Status: Design initiated November 1994
Design Revisions begun May 1997
Final Design revisions completed June 2000
Design is 99% complete
Easement/permit acquisition 95% complete
Condemnation proceedings in progress
Anticipated construction award by December 2002

Name: Elm Fork Relief Interceptor, EF-1
Location: City of Irving
North of CRWS Treatment Plant, from West Fork of Trinity River to SH 183
Type: 102" parallel relief of 25,300 ft. of 72" & 96" diameter pipelines
Status: Design begun in 1996
Design 95% complete
Easement acquisition begun December 2000
Anticipated construction award in late 2003

Name: Elm Fork Relief Interceptor, EF-2
Location: Cities of Irving and Dallas
North of SH 183 to Spur 348
Type: 96" parallel relief of 20,600 ft. of 96" diameter pipeline
Status: Design initiated in 1995
Revisions to Final Design made in December 1997
Design 91% complete
Easement acquisition to begin by January 2002
Anticipated construction award in late 2003

HANDOUT AGENDA ITEM III-C

August 7, 2002
(Previous report August 6, 2001)

CENTRAL REGIONAL WASTEWATER SYSTEM DESIGN AND CONSTRUCTION PROJECTS STATUS REPORT

ACTIVE PIPELINE DESIGN PROJECTS

BEAR CREEK INTERCEPTOR SYSTEM

Name: Bear Creek Interceptor, BC-4
Location: City of Colleyville
From Little Bear Creek to north city limit of Bedford
Type/Size: Preliminary Evaluation of 2700 ft. of 8" to 15" diameter parallel relief pipeline
Status: Preliminary Design Contract awarded in June 2001
Preliminary Design Report Contract to be completed by November 2002

ELM FORK INTERCEPTOR SYSTEM

Name: Elm Fork Relief Interceptor, EF-G
Location: Cities of Coppell and Carrollton
Adjacent to Belt Line Road, from Luna Road to Fairway
Type/Size: 48" parallel relief of 6900 ft. of 33" diameter pipeline
Status: Design initiated November 1994
Design Revisions begun May 1997
Final Design revisions completed June 2000
Design is 99% complete
Easement/permit acquisition 95% complete
Condemnation proceedings in progress
Anticipated construction award by December 2002

Name: Elm Fork Relief Interceptor, EF-1
Location: City of Irving
North of CRWS Treatment Plant, from West Fork of Trinity River to SH 183
Type: 102" parallel relief of 25,300 ft. of 72" & 96" diameter pipelines
Status: Design begun in 1996
Design 95% complete
Easement acquisition begun December 2000
Anticipated construction award in late 2003

Name: Elm Fork Relief Interceptor, EF-2
Location: Cities of Irving and Dallas
North of SH 183 to Spur 348
Type: 96" parallel relief of 20,600 ft. of 96" diameter pipeline
Status: Design initiated in 1995
Revisions to Final Design made in December 1997
Design 91% complete
Easement acquisition to begin by January 2002
Anticipated construction award in late 2003

Name: Elm Fork Relief Interceptor, EF-6
Location: Cities of Farmers Branch and Dallas
North of Spur 348 to I-635
Type: 72" parallel relief of 12,900 ft. 72" diameter pipeline
Status: Design initiated in August 1998
Design 41% complete
Easement acquisition to begin in 2002
Anticipated construction award by late 2003

MOUNTAIN CREEK INTERCEPTOR SYSTEM

Name: Kirby Creek Outfall Interceptor
Location: City of Grand Prairie
From Fish Creek to Great Southwest Parkway
Type: Preliminary Engineering Study and Environmental Assessment of 20,500 ft. of 12" to 24" line
Status: Design Contract awarded in August 1998
Preliminary Engineering Study completed August 1999
Environmental Assessment completed by March 2001
Work is 95% complete
Design to be initiated by October 2002
Easement acquisition to begin by April 2003
Anticipated construction award in October 2003

Name: MCKC II Rehabilitation
Location: City of Grand Prairie
Upstream of LS 4 along Mountain Creek Lake
Type: Rehab 4,650 ft. of 30" diameter pipeline
Status: Design initiated in 2001
Design 100% complete
Easement acquisition in progress
Anticipated construction award by October 2003

WEST FORK INTERCEPTOR SYSTEM

Name: West Fork Relief Interceptor, WF-G Phase II and I-A-1 Erosion
Location: City of Grand Prairie
From Bear Creek System junction approximately 3,900 ft. upstream toward Belt Line Road
Type: 84" parallel relief of 3,900 ft. of 45" & 66" lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design completed in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Design is 100% complete
Construction contract to be awarded in October 2002

Name: West Fork Interceptor, WF-1
Location: City of Grand Prairie
From the Plant to Bear Creek System junction
Type/Size: 84" parallel relief of 17,800 ft. of 84" pipeline
Status: Design Contract awarded in June 1998
Preliminary Engineering Study completed 2001
Environmental Assessment completed
Evaluation of TXDOT conflicts and pipeline reroutes completed by February 2001
Final Design is 80% complete
Easement acquisition started December 2001
Anticipated construction award by February 2003

Name: West Fork Interceptor, WF-3
Location: City of Grand Prairie
Johnson Creek from junction with West Fork to Hwy. 360
Type/Size: Preliminary Evaluation of 24" parallel relief of 11,050 ft. of 30" line
Status: Preliminary Design Contract awarded in June 1998
Environmental Assessment completed by December 2001
Design is 98% complete
Final Design contract to be awarded by December 2002

Name: West Fork Interceptor, WF-11A
Location: City of Grand Prairie
From Johnson Creek to Roy Orr Blvd.
Type: Preliminary Engineering Study and Environmental Assessment of 72" diameter
parallel relief 6,900 ft. of 60" diameter line
Status: Design awarded in August 1998
Draft Environmental Assessment completed March 2000
Design is 31% complete
Easement acquisition to begin by January 2003
Anticipated construction award in 2003

Name: West Fork Relief Interceptor, WF-11B
Location: Cities of Arlington and Grand Prairie
From Roy Orr Boulevard to west of West Fork of Trinity River
Type: 84" diameter parallel relief of 16,000 ft. of 66" to 84" diameter line
Status: Design contract awarded in June 1998
Preliminary engineering and environmental assessment completed March 2000
Engineering evaluations & negotiation of pipeline relocation, November 1999 to
December 2001
Revised environmental assessment completed in April 2001
Revised pipeline alignment in summer 2001
Design 67% complete
Easement acquisition begun in late 2001
Anticipated construction award in March 2003

Name: I and I Management Plan – Phase IV
Type: Planning
Status: Contract awarded in December 2001
Work is approximately 37% complete

ACTIVE PLANT DESIGN PROJECTS:

Name: Bar Screening Improvements, Phase I and II
Location: PS 6/6A
Type: Rehabilitation and Maintenance
Status: Design of Phase I is 100% complete
Design of Phase II is 100% complete
Construction contract awarded in June 2002
Construction to be completed by November 2003

Name: Clarifier Piping Improvements
Location: Primary Clarifiers
Type: Evaluation and Piping Rehabilitation
Status: Contract to be approved in August 2002

Name: Stage VI Odor Control Improvements
Location: Plant
Type:
Status: Design in progress

ACTIVE CONSTRUCTION PROJECTS- (as of July 2002)

Name: Little Bear Creek CO-1/GV-4
Location: City of Hurst
East of Precinct Road, north of SP RR/West of Hwy 121& north of Glade
Type: Rehabilitation of 1500 ft. of 12" diameter line/200 ft. line repair
Status: Project added to BC Rehab. in 1998
Final Design completed in June 2001
Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction is approximately 82% complete

Name: Bear Creek Rehab., Section II & III
Location: Cities of Irving and Ft. Worth
South of DFW International Airport
Type: Rehabilitation of 9000 ft. of 39" diameter line
Status: Preliminary Design Study initiated in February 1996
Engineering Evaluation completed in January 1997
Design initiated May 1997
Final Design completed in June 2001

Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction is approximately 82% complete

Name: Elm Fork Interceptor, MS 15.0E
Location: City of Carrollton
South of I-635 and north of Luna Road
Type/Size: Re-build meter station
Status: Design completed April 2002
Construction in progress

Name: Mountain Creek Interceptor, MC-4A
Location: Cities of Grand Prairie and Arlington
Bowman Branch, South Fork Fish Creek to Loyd Park
Type: Construct new lift station, 10,000 ft of twin 24" diameter force main to replace existing 18" force main, and build 7,500 ft of 54" diameter pipeline to replace existing 24" diameter gravity pipeline
Status: Environmental Assessment completed in April 1999
Design Contract awarded in August 1999
Evaluate possible reroute options in South Grand Prairie due to land development
Modify design for two 24" diameter force main and 54" gravity pipeline in July 2001
Easement acquisition begun in October 2000
USACE environmental data and reports to be completed by September 2001
Easement acquisition to be completed by October 2002
Construction contract awarded in June 2002
Construction <1% complete
Construction to be completed by December 2003

Name: Mountain Creek Interceptor, MC-4B
Location: Cities of Grand Prairie, Arlington, and Mansfield
Loyd Park to Holland Road
Type: 16,000 ft of 48" relief pipeline replacement of 24" gravity pipeline
Status: Environmental Assessment completed in April 1999
Design Contract awarded in August 1999
Final design to begin in September 2000
Easement acquisition to begin March 2001
USACE environmental data and reports to be completed by September 2001
Easement acquisition completed by August 2002
Construction contract awarded in June 2002
Construction <1% complete
Construction to be completed by July 2003

Name: Harwood Road SS Maintenance
Location: Cities of Grand Prairie
Fish Creek to Camp Wisdom-Webb Lynn Roads
Type: 6,000 ft of 24" relief pipeline replacement of 24" gravity line
Status: Design completed by TRA – April 2002
Easement acquisition begin March 2002

Easement acquisition in progress
Construction contract awarded April 2002
Construction is 51% complete
Construction to be completed by October 2002

Name: West Fork Relief Interceptor, WF-C, N, B, P, & M
Location: City of Arlington
From West of Hwy. 360 to west of Collins Street
Type: 72" parallel relief of existing 54" & 60" lines
Status: Design initiated in 1996
Design completed in December 1998
EA completed by December 1998
Construction contract awarded in December 1998
Construction 97% complete
Construction to be completed by August 2002

Name: West Fork Relief Interceptor, WF-G, Phase I
Location: City of Grand Prairie
From 3,900 feet west of Bear Creek System junction to Belt Line Road
Type: 84" parallel relief of 2,200 ft. of 45" & 66" lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design 100% complete in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Construction contract awarded in April 2001
Construction is approximately 99% complete
Construction to be completed by September 2002

Name: Bar Screening Improvements, Phase I and II
Location: PS 6/6A
Type: Plant
Status: Design of Phase I is 100% complete
Design of Phase II is less than 100% complete
Construction contract awarded in June 2002
Construction <1% complete
Construction to be completed by November 2003

Name: Gravity Sand Filters Rehabilitation
Location: Plant
Type: Rehabilitation and Maintenance
Status: Design is 100% complete
Construction Contract awarded in June 2002
Construction is >75% complete
Construction to be completed by October 2002

List of Construction Project Improvements Completed since August 2001 Report

1. Flow Monitoring and Telemetry Improvements
2. 2000 Odor Control Stage IV Project – Biofilters
3. Solids Dewatering and Handling Equip. – Belt Presses
4. Sludge Collection System
5. MC-1 Pipeline
6. WF-C,N,B,P,&M Pipeline
7. I/I Management Phase III- update POE and flow data, and select ESRI GIS and HydroWorks software

AGENDA ITEM VI

FISCAL YEAR REVENUE ALLOCATION

1) Flow Projection and Analysis (See Item VI-A)

In early spring of each year Northern Region management requests from each Contracting Party their projected flows for the following fiscal year. Along with the estimated flows received, the Authority evaluates actual previous fiscal year flows and present year-to-date fiscal flows to establish the Project's flow allocations from each Contracting Party and the overall total System projection of MGD. This average daily flow will be used in the development of operation and maintenance expenditures and also utilized to determine each Contracting Party's share of the proposed fiscal year system expenditures.

2) Actual Monthly Flow Distribution (See Item VI-B)

A report is distributed monthly to each Contracting Party regarding the flows of the previous month. The "Contributed Wastewater Flow By Contracting Parties" report summarizes meter station data and cost obligation (CRWS only) pertaining to the flow measurement of wastewater transported to the Plant for processing. Included for comparison purposes are the predicted percentage of total flow contributed by each party and the year-to-date actual wastewater flow percent contribution.

3) Mid-Year Assessment/Reallocation (See Item VI-C)

Authority management and the contributing parties recognize that at the time budgets are prepared, actual flow conditions for the upcoming fiscal year can vary due to development changes, drought and/or wet conditions. At mid-year (usually June), an evaluation of flows from each Party will be conducted. Based on factors including a review of year-to-date flows for the present fiscal year and flows over the previous twelve months, original flows and contribution percentage allocations for the System may be adjusted.

4) End-of-Year Settle-Up (See Item VI-D)

The contract states that adjustments for the previous year's annual requirement shall be credited, or debited, to settle-up the contracting parties accounts. An independent audit will be performed to establish the actual expenditures during the fiscal year, and a determination will be made as to each Contracting Party's proportionate share of said expenditures. Each Party's annual obligation is compared with the actual collections from that Party, and if a variance exists, a refund check or a final invoice is issued to close out the fiscal year.

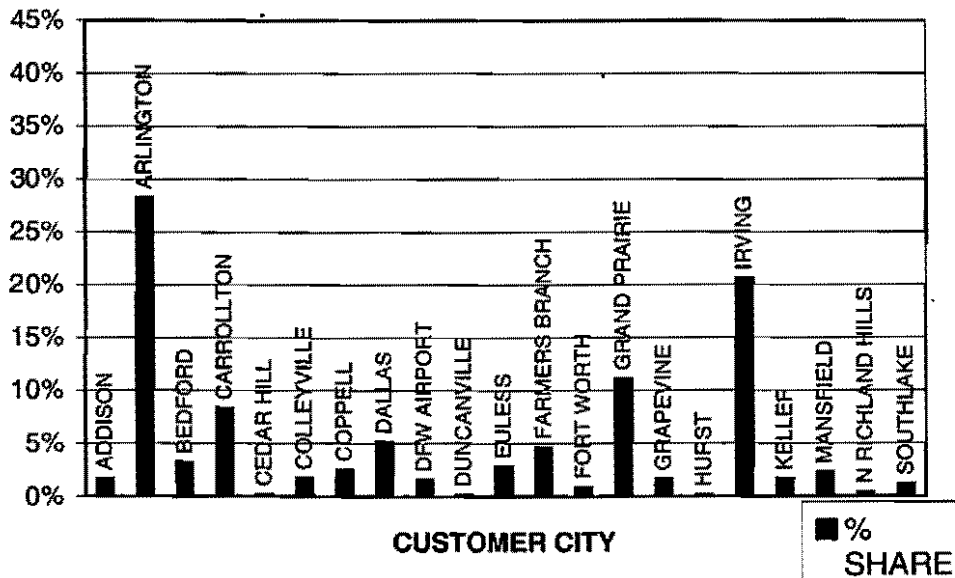


AGENDA ITEM VI-A

EXHIBIT A CENTRAL REGIONAL WASTEWATER SYSTEM FY 2002 FLOW ALLOCATIONS

CITY	FY 2001	FY 2001	FY 2002	FY 2002
	FLOW (MGD)	% ALLOCATION	FLOW (MGD)	% ALLOCATION
ADDISON	2.420	1.691%	2.420	1.664%
ARLINGTON	39.860	27.848%	41.080	28.230%
BEDFORD	5.360	3.745%	4.666	3.206%
CARROLLTON	12.200	8.524%	12.100	8.315%
CEDAR HILL	0.210	0.147%	0.245	0.168%
COLLEYVILLE	2.445	1.708%	2.539	1.745%
COPELL	3.575	2.498%	3.700	2.543%
DALLAS	7.200	5.030%	7.500	5.154%
DFW AIRPORT	2.100	1.467%	2.310	1.587%
DUNCANVILLE	0.200	0.140%	0.200	0.137%
EULESS	4.000	2.795%	4.100	2.817%
FARMERS BRANCH	6.500	4.541%	6.700	4.604%
FORT WORTH	1.200	0.838%	1.267	0.871%
GRAND PRAIRIE	15.890	11.102%	16.208	11.138%
GRAPEVINE	2.724	1.903%	2.380	1.635%
HURST	0.175	0.122%	0.183	0.126%
IRVING	29.900	20.890%	30.000	20.616%
KELLER	1.850	1.292%	2.415	1.659%
MANSFIELD	3.090	2.159%	3.250	2.233%
N RICHLAND HILLS	0.540	0.377%	0.565	0.388%
SOUTHLAKE	1.694	1.183%	1.694	1.164%
TOTAL	143.133	100.000%	145.522	100.000%

BUDGETED FY 2002 FLOWS



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 CONTRIBUTED WASTEWATER FLOW BY CONTRACTING PARTIES
 MAY 2002

<u>CONTRACTING PARTY</u>	<u>FLOW (MGD)</u>	<u>% CONTR.</u>	<u>YTD FY %</u>	<u>PROJ %</u>	<u>% VAR</u>
ADDISON	2.2072	1.4808	1.5081	1.6640	-9.37
ARLINGTON	46.7600	31.3708	30.7222	28.2300	8.83
BEDFORD	5.1481	3.4538	3.3588	3.2060	4.77
CARROLLTON	11.8947	7.9801	8.1651	8.3150	-1.80
CEDAR HILL	0.3306	0.2218	0.2221	0.1680	32.21 *
COLLEYVILLE	2.1869	1.4672	1.4345	1.7450	-17.80 *
COPPELL	4.2927	2.8800	2.6779	2.5430	5.30
DALLAS	6.5204	4.3745	5.8862	5.1540	14.21 *
DFW AIRPORT	2.0805	1.3958	1.3020	1.5870	-17.96 *
DUNCANVILLE	0.2307	0.1548	0.1584	0.1370	15.65 *
EULESS	3.9336	2.6390	2.8957	2.8170	2.79
FARMERS BRANCH	7.7498	5.1993	4.7589	4.6040	3.37
FORT WORTH	2.0728	1.3906	1.1404	0.8710	30.93 *
GRAND PRAIRIE	14.2498	9.5600	10.2788	11.1380	-7.71
GRAPEVINE	1.6112	1.0809	1.2508	1.6350	-23.50 *
HURST	0.1807	0.1213	0.1291	0.1260	2.48
IRVING	28.7264	19.2723	18.4219	20.6160	-10.64 *
KELLER	2.1611	1.4498	1.6933	1.6590	2.06
MANSFIELD	3.5450	2.3783	2.3496	2.2330	5.22
NORTH RICHLAND HILLS	0.6918	0.4641	0.3932	0.3880	1.34
SOUTHLAKE	2.4815	1.6648	1.2532	1.1640	7.66
TOTALS	<u>149.0557</u>	<u>100.0000</u>	<u>100.0000</u>	<u>100.0000</u>	

* Fiscal year average deviates from the projected average by 10% or more.

CRWS - 2002 MID YEAR REALLOCATION

CONTRACTING PARTY	2002 BUDGET MGD	2002 BUDGET % SHARE	2002 REVISED MGD	2002 REVISED % SHARE
ADDISON	2.420	1.664%	2.2387	1.509%
ARLINGTON	41.080	28.230%	44.7131	30.131%
BEDFORD	4.666	3.206%	4.9382	3.328%
CARROLLTON	12.100	8.315%	12.7200	8.571%
CEDAR HILL	0.245	0.168%	0.3286	0.221%
COLLEYVILLE	2.539	1.745%	2.1114	1.423%
COPPELL	3.700	2.543%	3.8984	2.627%
DALLAS	7.500	5.154%	9.0639	6.108%
DFW AIRPORT	2.310	1.587%	1.8967	1.278%
DUNCANVILLE	0.200	0.137%	0.2354	0.159%
EULESS	4.100	2.817%	4.4239	2.981%
FARMERS BRANCH	6.700	4.604%	6.9031	4.652%
FORT WORTH	1.267	0.871%	2.0994	1.415%
GRAND PRAIRIE	16.208	11.138%	15.4214	10.392%
GRAPEVINE	2.380	1.635%	1.9017	1.281%
HURST	0.183	0.126%	0.1934	0.130%
IRVING	30.000	20.616%	26.9834	18.183%
KELLER	2.415	1.659%	2.5786	1.738%
MANSFIELD	3.250	2.233%	3.4659	2.335%
N RICHLAND HILLS	0.565	0.388%	0.5598	0.377%
SOUTHLAKE	1.694	1.164%	1.7273	1.164%
TOTAL	145.5220	100.000%	148.4023	100.000%

CENTRAL REGIONAL WASTEWATER SYSTEM
 FY 2001 SCHEDULE OF ACTUAL ANNUAL REQUIREMENT ADJUSTED FOR INTERCEPTOR I/I (METHOD 2)

CONTRACTING PARTY	FY 2001 CONTRIBUTION BASED ON ACTUAL FLOW		DISTRIBUTION OF FY 2001 ACTUAL ANNUAL REQUIREMENT BASED ON ACTUAL FLOWS	TRA INTERCEPTOR I/I (MG)	ADJUSTED FY 2001 CONTRIBUTION		ADJUSTED DISTRIBUTION OF FY 2001 ACTUAL ANNUAL REQUIREMENT	FY 2001 ACTUAL ANNUAL REQUIREMENT ADJUSTMENT
	TOTAL FLOW (MG)	PERCENT			TOTAL FLOW (MG)	PERCENT		
ADDISON	830.338	1.539%	\$790,319		830.338	1.553%	\$797,508	\$7,189
ARLINGTON	16,100.830	29.838%	\$15,322,632	0.495	16,100.335	30.111%	\$15,462,825	\$140,193
BEDFORD	1,751.036	3.245%	\$1,666,397		1,751.036	3.275%	\$1,681,802	\$15,406
CARROLLTON	4,439.217	8.227%	\$4,224,790	2.53	4,436.687	8.298%	\$4,261,251	\$36,460
CEDAR HILL	107.737	0.200%	\$102,705		107.737	0.201%	\$103,219	\$514
COLLEYVILLE	912.313	1.690%	\$867,861	6.007	906.306	1.695%	\$870,429	\$2,568
COPPELL	1,432.413	2.654%	\$1,362,902		1,432.413	2.679%	\$1,375,740	\$12,838
DALLAS	3,166.062	5.867%	\$3,012,866	187.824	2,978.238	5.570%	\$2,860,348	(\$152,518)
D/FW AIRPORT	795.167	1.474%	\$756,939		795.167	1.487%	\$763,615	\$6,676
DUNCANVILLE	60.654	0.112%	\$57,515		60.654	0.113%	\$58,029	\$514
EULESS	1,430.274	2.651%	\$1,361,361	30.426	1,399.848	2.618%	\$1,344,415	(\$16,946)
FARMERS BRANCH	2,160.775	4.004%	\$2,056,164	0.15	2,160.625	4.041%	\$2,075,164	\$19,001
FORT WORTH	1,009.115	1.870%	\$960,296	56.782	952.333	1.781%	\$914,592	(\$45,704)
GRAND PRAIRIE	5,929.950	10.989%	\$5,643,153	145.711	5,784.239	10.818%	\$5,555,340	(\$87,813)
GRAPEVINE	596.313	1.105%	\$567,448	36.989	559.324	1.046%	\$537,150	(\$30,298)
HURST	74.667	0.139%	\$71,380		74.667	0.140%	\$71,894	\$514
IRVING	10,460.689	19.387%	\$9,955,757	17.724	10,442.965	19.531%	\$10,029,705	\$73,948
KELLER	770.179	1.427%	\$732,804	0.948	789.231	1.439%	\$738,966	\$6,162
MANSFIELD	1,149.337	2.130%	\$1,093,613		1,149.337	2.150%	\$1,104,084	\$10,271
N RICHLAND HILLS	231.433	0.429%	\$220,303	1.897	229.536	0.429%	\$220,303	\$0
SOUTHLAKE	552.386	1.023%	\$525,339	4.038	548.348	1.025%	\$526,366	\$1,027
	<u>53,960.885</u>	<u>100.000%</u>	<u>\$51,352,746</u>	<u>491.521</u>	<u>53,469.364</u>	<u>100.000%</u>	<u>\$51,352,746</u>	<u>\$0</u>

Customer City for Receiving Meter	Receiving Meter	Upstream Meters	ADF (mgd)	ADDF (mgd)	I/I (mgd)	TRA Interceptor Idm	City Idm	Total Idm	I/I per Idm	TRA Interceptor I/I (mgd)	TRA Interceptor I/I (mg)	Adjusted TRA Interceptor Idm	Adjusted TRA Interceptor I/I (mgd)	Adjusted TRA Interceptor I/I (mg)
Arlington	9.0W	9.5W, 9.7W, 9.8W	2.166	0.978	1.188	0.75	411.10	411.85	0.0028838	0.002	0.789	0.47	0.001	0.495
Carrollton	15.0E/16.5E	17.0E, 18.0E	12.162	12.073	0.089	537.79	4480.78	5018.57	0.0000178	0.010	3.491	389.70	0.007	2.530
Colleyville	11.9B	12.7B, 13.5B, 12.1B, 12.3B	0.849	0.776	0.073	136.58	290.53	427.11	0.0001703	0.023	8.490	98.63	0.016	6.007
Dallas	3.0M	4.5M, 5.1M, 5.3M	4.120	2.489	1.631	608.02	1267.61	1875.63	0.0008697	0.529	193.008	591.69	0.515	187.824
Euless	11.8W	11.9W, 10.5W	1.072	0.869	0.203	31.32	305.30	336.62	0.0008030	0.019	6.894	24.27	0.015	5.342
Euless	12.0B	12.6B, 13.0B, 12.9B, 13.1B	0.487	0.362	0.125	182.52	277.21	459.73	0.0002717	0.050	18.099	150.87	0.041	14.960
Euless	13.0W	15.0W, 15.5W, 16.0W	0.566	0.469	0.096	83.90	219.46	303.36	0.0003222	0.027	9.868	53.36	0.017	6.276
Euless	16.5W	17.0W	0.132	0.085	0.046	8.08	111.98	120.06	0.0003957	0.003	1.167	6.39	0.003	
Euless	18.0W	18.1W, 18.6W, 19.0W, 19.1W	0.597	0.547	0.050	49.38	211.38	260.76	0.0001922	0.009	3.464	41.70	0.008	
Farmers Branch	13.0E	13.1E, 13.2E, 13.3E	4.220	3.380	0.840	1.38	1346.80	1348.18	0.0006229	0.001	0.314	0.66	0.000	0.150
Fort Worth	10.0W	11.6W, 11.8W	0.587	0.222	0.365	62.43	82.46	144.89	0.0025181	0.157	57.380	61.78	0.155	56.782
Grand Prairie	5.0J	7.0J, 8.0J	4.994	4.014	0.980	505.77	1648.51	2154.28	0.0004548	0.230	83.967	200.43	0.091	33.276
Grand Prairie	5.0W	6.0W	0.550	0.394	0.156	71.15	195.66	266.81	0.0005856	0.042	15.209	70.52	0.041	15.074
Grand Prairie	5.1M	7.0M, 9.0M, 9.6M, 10.0M	4.662	4.042	0.620	568.71	1775.88	2344.59	0.0002644	0.150	54.882	490.79	0.130	47.362
Grand Prairie	7.0W	8.0W	1.566	1.102	0.464	182.48	220.24	402.72	0.0011531	0.210	76.803	118.80	0.137	50.001
Grapevine	11.8B	11.9B, 11.7B	1.296	0.674	0.621	182.62	848.64	1031.26	0.0006025	0.110	40.160	168.20	0.101	36.989
Irving	4.0E	10.0E, 11.0E	9.124	8.170	0.954	187.28	2167.03	2354.31	0.0004052	0.076	27.701	119.83	0.049	17.724
Keller	12.8B	13.3B, 13.6B	1.488	1.360	0.128	161.15	1366.52	1527.67	0.0000836	0.013	4.917	22.21	0.002	0.678
Keller	15.0B	16.0B	0.591	0.518	0.074	3.25	412.74	415.99	0.0001767	0.001	0.210	1.54	0.000	0.099
North Richland Hills	14.0B	14.7B, 15.0B	0.564	0.525	0.039	69.76	353.80	423.56	0.0000924	0.006	2.354	56.21	0.005	1.897
Southlake	13.5B	12.8B	0.666	0.560	0.106	46.43	398.86	445.29	0.0002384	0.011	4.041	46.40	0.011	4.038
TOTAL			52.459	43.608	8.851	3680.75	18392.49	22073.24	0.0129243	1.660	613.207	2712.45	1.346	491.351

The Adjusted TRA Interceptor I/I (MG) for the City of Keller was corrected to 0.777MG after the Fiscal Year 2001 Schedule of Actual Annual Requirement was finalized. However, this correction does not affect the Contribution Based on Actual Flow (%) or the Actual Annual Requirement (\$).

CENTRAL REGIONAL WASTEWATER SYSTEM
CAPACITY FOR UPSTREAM CITY (METHOD 2)

Delta Meter		Upstream Meter(s)						Upstream Interceptor			Downstream Interceptor			
City	Meter ID	City	Meter ID	Node	Lateral	Interceptor	Sta. No.	Diameter	Slope	Capacity (cfs)	Diameter	Slope	Capacity (cfs)	
Irving	4.0E	Dallas	11.0E	MS11.0E	EF002	EF2	29069.00	City			30	0.00010	4.113	
		Dallas	10.0E	MS10.0E	EF002.2	EF2	26900.00	City			12	0.01700	4.658	
Carrollton	15.0/16.5E	Coppell	17.0E	900E	EF009	COP	12228.00		33	0.00050	11.858	33	0.00050	11.858
		Dallas	18.0E	MS18.0E	EF014	EFN	16922.60	City			66	0.00042	69.006	
Farmers Branch	13.0E	Addison	13.1E	1930E	EF012	EF2R	537.43		30	0.00270	21.310	30	0.00220	19.240
		Addison	13.2E	1930E	EF012	EF2R	537.43		18	0.01050	10.760	15	0.00500	4.570
		Addison	13.3E	1930E	EF012	EF2R	537.43	City				18	0.00720	8.910
Grapevine	11.8B	Colleyville	11.9B	3460B	BC019	BBCXII	7310.00		48	0.00070	37.998	48	0.00080	40.738
		DFW	11.7B	2900B	BC017	B6C	9384.00		12	0.00400	2.250	12	0.00400	2.250
Colleyville	11.9B	Southlake	13.5B	3810B	BC020	BBCXII	19240.00		36	0.00220	31.369	36	0.00240	32.763
		Southlake	12.1B	3590B	BC019	BBCXII	450.00		18	0.00120	3.649	18	0.00120	3.649
		Southlake	12.3B	4120B	BC016	BBCXII	85.00	City				15	0.00150	2.509
		Southlake	12.7B	4090B	BC020.4	BBCXIII	325.00	City				15	0.00460	4.393
Southlake	13.5B	Keller	12.8B	4060B	BC018	BBCXI	25985.00		36	0.00172	27.712	36	0.00172	27.712
Keller	12.8B	North Richland Hills	13.3B	6280B	BC019.3	BBCXII	3128.06		12	0.00200	1.598	12	0.00200	1.598
		Southlake	13.6B	4920B	BC018.1	BBCXI	90.00		18	0.01700	13.700	21	0.00100	5.010
Euless	12.0B	Grapevine	12.6B	6090B	BC013	CV7R	5325.00		12	0.00202	1.606	12	0.00880	3.351
		Colleyville	12.9B	2395B	BC010	CO17	5436.48	End of Line				12	0.00241	1.754
		Colleyville	13.0B	1580B	BC007	LBCJ	9600.00		42	0.00228	48.170	42	0.00240	49.421
		Bedford	13.1B	2460B	BC012	B13	2266.00	City				12	0.00200	1.598
North Richland Hills	14.0B	Keller	14.7B	MS14.7B	BC008.1	LBCII	35540.00	City			12	0.00580	2.721	
		Keller	15.0B	2210B	BC008	LBCII	38040.00		21	0.00200	7.105	21	0.00339	9.250
Keller	15.0B	North Richland Hills	16.0B	MS16.0B	BC008.2	LBCII	38837.00	City			8	0.00400	0.766	
Grand Prairie	5.0W	Arlington	6.0W	1470W	WF003	WFXJB	13100.00		27	0.00770	27.249	27	0.00770	27.249
Grand Prairie	7.0W	Arlington	8.0W	1780W	WF004	WFXJC	15746.82		42	0.00148	38.810	42	0.00200	45.115
Arlington	9.0W	Grand Prairie	9.5W	MS9.5W	WF015.1	WFCEO	2441.32	City			6	0.00800	0.503	
		Grand Prairie	9.7W	MS9.7W	WF015.2	WFCEO	2441.32	City			6	0.00480	0.390	
		Grand Prairie	9.8W	MS9.8W	WF015.4	WFCEO	2441.32	City			8	0.00800	1.084	
Fort Worth	10.0W	Euless	11.6W	MS11.6W	WF011.1	BBP	6768.00	City			10	0.00340	1.281	
		Euless	11.8W	2460W	WF011	BBP	12767.50		24	0.00408	14.489	24	0.00410	14.524
Euless	11.8W	Fort Worth	10.5W	2470W	WF011	BBP	13121.76	City			12	0.08160	10.180	
		Bedford	11.9W	2860W	WF013.1	BBRI	20.00	End of Line				12	0.01450	4.302
Euless	13.0W	Bedford	15.0W	3720W	WF017	TJO	2156.00	City			12	0.00339	2.080	
		Bedford	15.5W	MS15.5W	WF018.1	HCT	1142.32	City			12	0.00300	1.957	
		Bedford	16.0W	3760W	WF018	HCT	2821.65	City			18	0.00340	6.142	
Euless	16.5W	Bedford	17.0W	3330W	WF016	BOT	8783.00		10	0.00850	2.025	10	0.00400	1.389
Euless	18.0W	Bedford	18.1W	3539W	WF014B	EOS	650.00		12	0.00317	2.011	12	0.02000	20.209
		Hurst	18.6W	MS18.6W	WF014A.3	EOSB	3525.65	City			10	0.02000	3.107	
		Bedford	19.0W	3860W	WF019	SBT	7560.00		18	0.01980	14.821	18	0.00340	6.142
		Bedford	19.1W	3480W	WF014A	EOSB	2747.16		36	0.00440	44.362	27	0.00440	20.599
Grand Prairie	5.0J	Arlington	7.0J	1810J	JT008	CWRR	20372.81	City			30	0.00550	30.501	
		Arlington	8.0J	MS8.0J	JT001	CWCS	11390.00		21	0.00100	5.024	21	0.00802	14.228
Dallas	3.0M	Duncanville	4.5M	MS4.5M	MC002.1	MC2	148.00	City			15	0.01350	7.526	
		Grand Prairie	5.1M	380M	MC006	FCCP	18.00		60	0.00150	101.140	60	0.00150	101.140
		Grand Prairie	5.3M	2120M	MC004	EMCR	109.20		30	0.00100	13.006	27	0.00266	16.016
		Cedar Hill	CH	2290M	MC012	NEL	29700.00	FM				24	0.02401	35.148
Grand Prairie	5.1M	Arlington	7.0M	1080M	MC007	NFFC	16340.00		27	0.00260	15.834	27	0.00260	15.834
		Arlington	9.0M	8030M	MC005	SFFCR	953.50		30	0.00400	26.011	30	0.00400	26.011
		Arlington	9.6M	1950M	MC010	BOWBR	4558.00		36	0.00219	31.297	36	0.00220	31.369
		Mansfield	10.0M	1840M	MC009	WCT	17987.61		27	0.00075	8.504	27	0.00075	8.504

CENTRAL REGIONAL WASTEWATER SYSTEM INTERCEPTOR I/I PRORATION METHODOLOGY

Method 2

Method 2 utilizes the CRWS and city inch-diameter-mile (idm) calculations, and the metered flows from each delta meter to prorate interceptor I/I on a subsystem basis. The interceptor I/I is developed by applying the I/I per idm for the delta meter subsystem to an adjusted interceptor idm. The adjusted interceptor idm is based on the line size required to transport the existing flow capacity provided for the upstream city. The interceptor I/I flows are deducted from the Fiscal Year Contribution and the Annual Requirement is revised based on adjusted contribution percentages.

CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION METHOD 2

The following is a description of Method 2 for prorating CRWS interceptor infiltration/inflow (I/I) to the contracting party flows.

1. Determine the annual volume of I/I for each subsystem defined by a delta meter location. $ADF - ADDF = I/I$ (annually)

The use of delta meter subsystem values assumes that the annual average I/I per idm for the CRWS interceptors and the city collection system served by the interceptor is the same within the delta meter subsystem. The interceptors upstream of non-delta meters are considered to be lines required to serve the metered city, regardless of ownership. The evaluation of I/I annually will provide a trending to account for annual rainfall, I/I reduction in the CRWS and the city collection systems, and any other changes in the condition of the systems.

2. Determine the city inch-diameter-miles (idm) within the delta meter subsystem. The delta meter subsystem idm could be determined annually, or assumed to remain the same for a period of three to five years.
3. Determine the CRWS interceptor idm within the delta meter subsystem.
4. Determine the annual subsystem I/I per idm. (No. 1 divided by the sum of No. 2 and No. 3)
5. Determine the adjusted CRWS interceptor idm. The adjusted interceptor idm is based on the interceptor size required to transport the existing flow capacity provided for the upstream city using the slope of the existing CRWS interceptor segments from the upstream meter to the delta meter. The existing interceptor size in excess of the size required for the upstream city is considered to be required to serve the delta metered city, regardless of ownership.
6. Apply the annual subsystem I/I per idm to the adjusted CRWS interceptor idm. (No. 4 multiplied by No. 5)
7. Adjust the Fiscal Year Contribution Based on Actual Flow for each of the contracting parties.
8. Adjust the Distribution of Fiscal Year Actual Annual Requirement Based on Actual Flows for each of the contracting parties.

MEMORANDUM

Trinity River Authority of Texas
Interceptor I/I Proration
Negative Flow Adjustment

B&V Project 66779.110
B&V File B
July 26, 2001

To: Patricia Cleveland

From: Layne Parsons, P.E.

The following methodology is proposed for adjusting negative average daily flow (ADF) and infiltration/inflow (I/I) flows used in the interceptor I/I proration calculation.

ADF Adjustment

If a negative ADF value is calculated for a receiving (delta) meter, negative ADF should not be adjusted for the interceptor I/I proration. ADF and I/I will be zero (0) at delta meter locations with negative ADF.

I/I Adjustment

If a negative I/I value is calculated for a receiving (delta) meter, use the following steps to determine an adjusted I/I value:

1. Using the estimated developed acres and the current annual I/I, determine the average gallons-per-acre-day (gpad) for the meters upstream of the receiving (delta) meter.
2. Apply the calculated average gpad I/I flow value to the cumulative developed acres for the receiving (delta) meter to determine a revised annual I/I for the receiving (delta) meter.
3. Using the revised annual cumulative I/I for the receiving (delta) meter, calculate the delta I/I.

**CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION
FLOW ANALYSIS CRITERIA**

The average annual daily flow (ADF) is defined to be the total annual flow divided by the total number of days in the year.

The average daily dry weather flow is defined to be the lowest seven day average flow recorded during the year.

The following criteria are established for the analysis of the flows used to determine the ADF and ADDF for the interceptor I/I proration.

1. The beginning of the fiscal year for flow recordings may result in partial inclusion of the first seven day average meter recording. Partial seven day average meter recordings consisting of less than four (4) days will not be considered for use as the ADDF.
2. During the year, there may be a need to adjust the recorded flows. The reason for these adjustments may include, but not be limited to line blockage or year-to-date (YTD) adjustments. Adjusted flows will not be considered for use as ADDF.





HANDOUT AGENDA ITEM VI

Northern Region Office

DATE: August 13, 2002

FILE: 3110.102/3110.800

TO: MEMBER, ADVISORY COMMITTEE
CENTRAL REGIONAL WASTEWATER SYSTEM

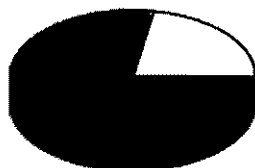
RE: Central Regional Wastewater System
Proposed FY 2003 Budget

Authority management annually prepares a proposed budget of anticipated revenues and expenditures of the Central Regional Wastewater System in accordance with the fiscal provisions of our Wastewater Services Contract for the ensuing fiscal year. We are pleased to present to you the proposed FY 2003 Budget for the annual operating funds of the Central System. This budget is relevant to the time period for December 1, 2002 through November 30, 2003.

This budget reflects the proposed financial activities of operating and debt service funds, provides for our continuing ability to deliver high quality, efficient wastewater service to our Contracting Parties, and will continue to position the Central System for increased growth, regulatory changes and maximized internal operational productivity measures to result in cost efficient wastewater treatment. Events of 2001 have led us to re-evaluate priorities and values, and re-assess the vulnerability of our staff and facilities. This past year, the Authority has worked to ensure the security and integrity of our Central System and the reliability of our services and progress on this effort will continue into FY 2003. Therefore, the budget reflects the Authority's continued commitment to protect capital investments, keep operational expenses to a minimum and to maximize the process of increasing operational efficiency throughout the Authority. A brief overview of Central's financial picture for FY 2003 will reveal an increase in overall System expenditures, with only those increases in operating accounts required to meet contractual obligations for our treatment of wastewater, as well as an increase associated with the debt service requirements, as compared to previous year. The operation and maintenance expenditures were developed based on transporting and treating an average daily flow of 150.150 MGD. The cost of debt service requirements is based on principal and interest payments due on outstanding Central Regional Wastewater System Revenue Bonds.

The anticipated expenditures in FY 2003 total \$58,077,710, an approximate 6.8% increase over the \$54,352,130 predicted for the current fiscal year. The projected costs for salaries and related benefits, association dues, maintenance and operating supplies, laboratory supplies, process chemicals, computer software, licenses and instrument supplies, audits, engineering services, Authority computer network, process SCADA and maintenance management support, professional services, postage,

Expenses

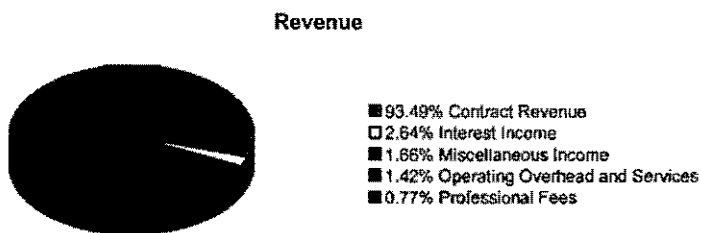


- 56.49 Debt Service and Miscellaneous
- 22.02% Other Services and Charges
- 14.46% Personal Services
- 6.12% Supplies
- 1.91% Capital Outlays



Project insurance payments, employee travel, laundry and uniforms, water usage, collection system, equipment, vehicle and electrical system maintenance repairs, transportation and beneficial use of biosolids, administrative overhead and capital outlays essential for delivering services during the year have increased \$2,183,400 above the predicted FY 2002 Budget. The increase in the proposed FY 2003 Budget for operating accounts is partly offset by a \$404,740 reduction in service cost for power usage and in other operating category accounts by holding the line on controllable costs, as close scrutiny was given to all anticipated expenditures. Along with decreases in some predicted operating accounts, there is an increase in programmed debt payments of \$1,946,920, resulting in an overall projected increase of \$ 3,725,580 for FY 2003 expenditures above the FY 2002 Budget. As is shown in the following table, and despite additional costs not foreseen one year ago, the predicted gross unit cost/1000 gallons is the same as last year's projection for the coming FY 2003, and the net cost/1000 gallons is slightly less than forecast.

Anticipated FY 2003 revenues from the System's Contracting Parties, totaling \$54,613,900, reflects an 8.3% increase above the FY 2002 projected revenue requirement of \$50,421,660. The resulting predicted gross and net unit costs of service for wastewater transportation and treatment throughout FY 2003 are 3.5% and 4.9% over the respective predicted FY 2002 budgeted unit costs as reflected in the following table:



Unit	Cost/1000 gallons		
	Predicted FY 2003	Budgeted FY 2002	Last Year's Projections For FY 2003
Gross (based on total cost)	1.059	1.023	1.059
Net (cost to Contracting Parties)	0.996	0.949	1.006

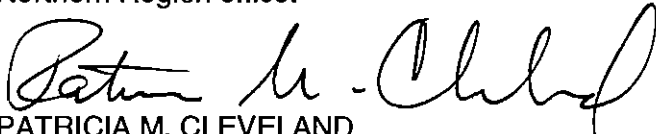
The following exhibits are presented to provide flow allocations, a summary of budget objectives and detailed information about the five major budget categories, as well as additional quantitative and statistical information for your review:

- Exhibit A - Flow Allocations
- Exhibit B - Budget Objectives
- Exhibit C - Budget at a Glance
- Exhibit D - Personal Services
- Exhibit E - Supplies
- Exhibit F - Other Services and Charges
- Exhibit G - Capital Outlays
- Exhibit H - Debt Service and Miscellaneous
- Exhibit I - Historical System Data
- Exhibit J - Projected Future Costs of Service

August 13, 2002
3110.102/3110.800
MEMBER, ADVISORY COMMITTEE
Page 3

The proposed FY 2003 Budget (Exhibit K) is presented for your review and consideration and will be discussed in the August 13, 2002 Advisory Committee meeting. Additionally, a Budget Workshop will be held in the upstairs conference room of the Administrative Building at the Central Regional Wastewater System on Monday, August 26, 2002, beginning at 10:00 a.m. for those representatives and city staff members who do not attend the Advisory Committee meeting or desire to discuss the proposed budget in more detail. A later Advisory Committee meeting is scheduled for Tuesday, September 10th, at which time the committee will be requested to recommend the proposed FY 2003 Budget for adoption by the Authority's Board of Directors.

If there are any questions concerning the proposed budget or the workshop, please contact the Northern Region office.



PATRICIA M. CLEVELAND
Manager, Operations
Northern Region

PMC/rrc

Attachments

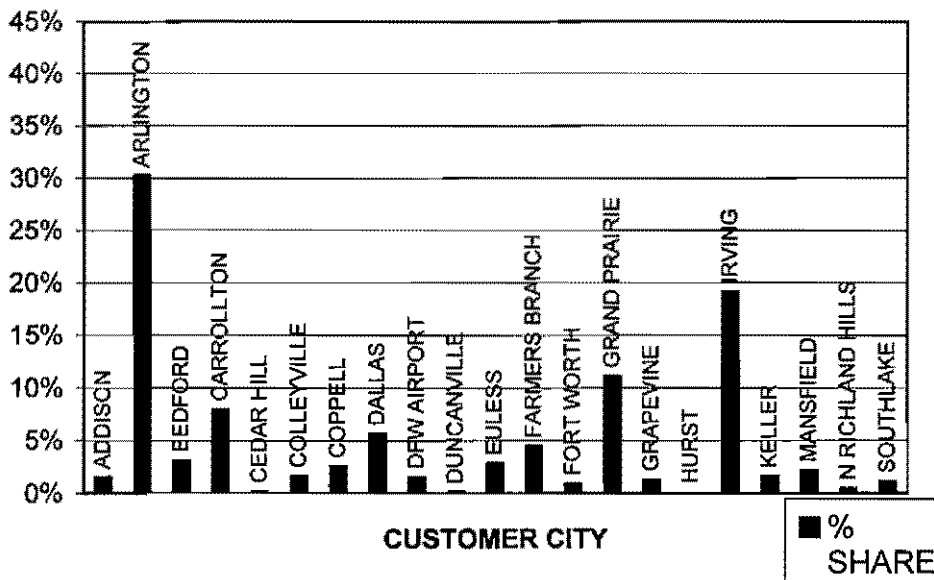
- c: Danny F. Vance, General Manager
Warren N. Brewer, Regional Manager, Northern Region
Bill Tatum, Project Manager, Central Regional Wastewater System



**EXHIBIT A
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2003 FLOW ALLOCATIONS**

CITY	FY 2002	FY 2002	FY 2003	FY 2003
	FLOW (MGD)	% ALLOCATION	FLOW (MGD)	% ALLOCATION
ADDISON	2.420	1.664%	2.280	1.518%
ARLINGTON	41.080	28.230%	45.460	30.276%
BEDFORD	4.666	3.206%	4.700	3.130%
CARROLLTON	12.100	8.315%	12.000	7.992%
CEDAR HILL	0.245	0.168%	0.300	0.200%
COLLEYVILLE	2.539	1.745%	2.527	1.683%
COPELL	3.700	2.543%	3.900	2.597%
DALLAS	7.500	5.154%	8.500	5.661%
DFW AIRPORT	2.310	1.587%	2.310	1.538%
DUNCANVILLE	0.200	0.137%	0.200	0.133%
EULESS	4.100	2.817%	4.275	2.847%
FARMERS BRANCH	6.700	4.604%	6.700	4.462%
FORT WORTH	1.267	0.871%	1.368	0.911%
GRAND PRAIRIE	16.208	11.138%	16.690	11.116%
GRAPEVINE	2.380	1.635%	1.920	1.279%
HURST	0.183	0.126%	0.202	0.135%
IRVING	30.000	20.616%	28.750	19.148%
KELLER	2.415	1.659%	2.415	1.608%
MANSFIELD	3.250	2.233%	3.250	2.165%
N RICHLAND HILLS	0.565	0.388%	0.703	0.468%
SOUTHLAKE	1.694	1.164%	1.700	1.132%
TOTAL	145.522	100.000%	150.150	100.000%

BUDGETED FY 2003 FLOWS



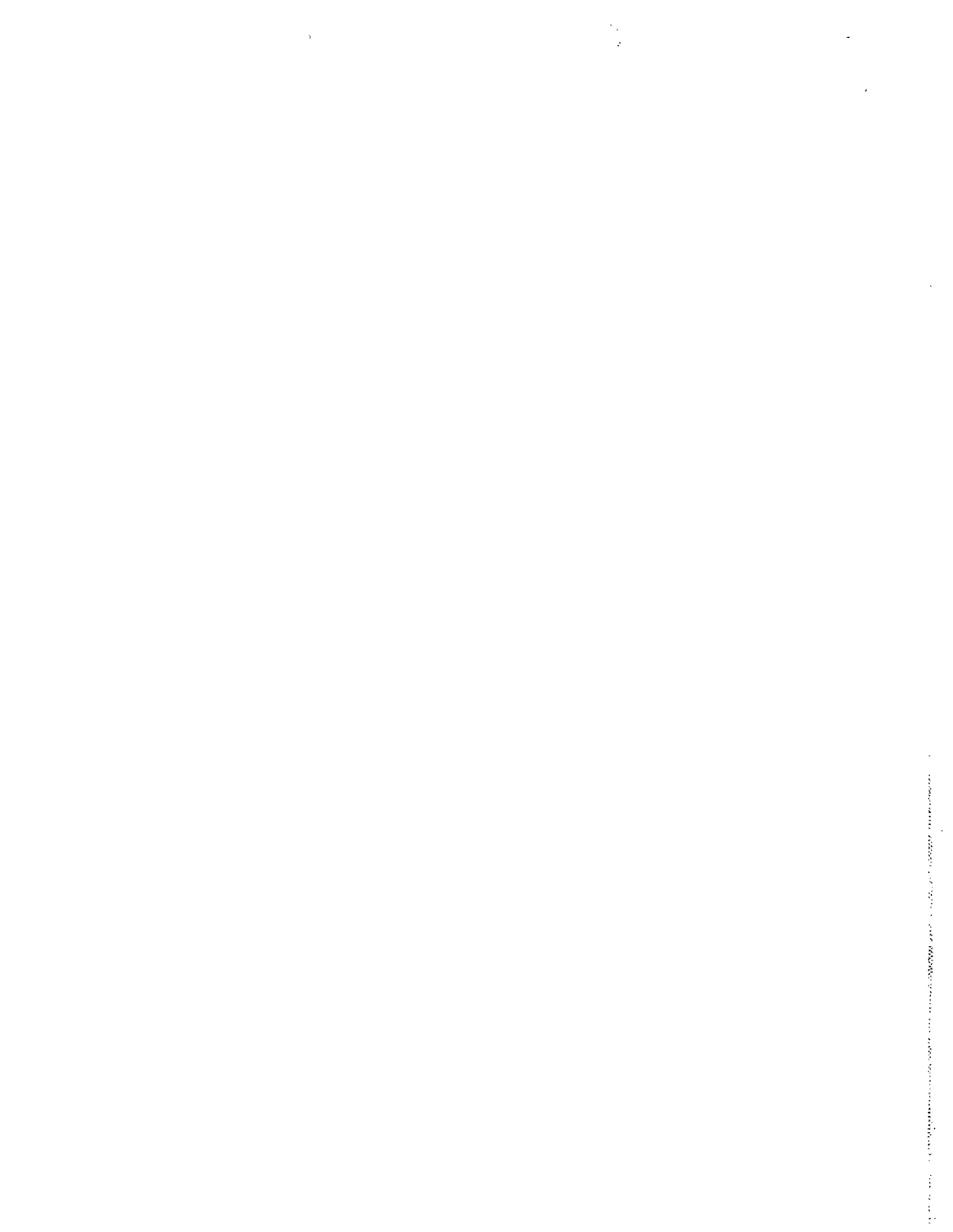


EXHIBIT B
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2003

DESCRIPTION OF THE PROJECT

The Trinity River Authority's Central Regional Wastewater System is a large regional wastewater system located on 495 acres adjacent to the West Fork of the Trinity River and is currently serving approximately one million customers in Dallas, Tarrant, Ellis, Johnson and Denton counties of north central Texas. The service area encompasses all or portions of 20 cities in the Dallas/Fort Worth metroplex, as well as the Dallas/Fort Worth International Airport. The Central Regional Wastewater System treatment plant is an advanced secondary facility currently permitted to treat 162 million gallons per day (MGD). This System consists of an extensive regional network of interceptors, pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for golf course irrigation and lake level management under the first major urban reuse program in Texas.

GOALS AND OBJECTIVES FOR FY 2003

The Authority's objectives are reflected in the recommended Annual Operating Budget for Central Regional Wastewater System FY 2003. The major goals and objectives are:

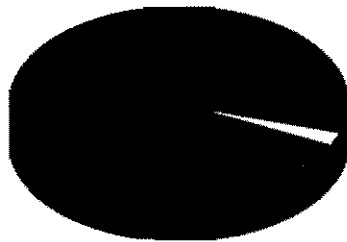
- Operate and adequately protect the Central System's capital investments by proper maintenance, which includes a 162 MGD treatment plant, over 200 miles of interceptors, four lift stations, 138 metering stations, an analytical laboratory, and the DCURD water reuse project.
- Provide wastewater transportation and treatment services for a projected flow contribution of 150.15 MGD.
- Continue operating at efficient levels and minimize unit costs while enhancing treatment capacity and meeting all regulatory requirements.
- Continue Authority efforts to reduce overall wet-weather flow impacts to the System by installing new pipelines for capacity, rehabilitating existing collection system infrastructure and plant facilities as identified in the first and second phases of the 1998 Five Year Plan; funded by the Series 1998A and 2000 Revenue Bonds, and the third phase funded by the Series 2001 Bonds.
- Operate and maintain odor control facilities consistent with the Odor Control Management Plan and implement additional odor improvements in the primary treatment areas to reduce risk of adjacent area odors.
- Provide Contracting Parties laboratory testing and pretreatment program capabilities and services on a revenue-supported basis.
- Continue 100% land application of System biosolids under a five-year agreement.
- Respond in a timely fashion to Customer Cities' requests for assistance.



EXHIBIT C
FISCAL YEAR 2003 BUDGET AT A GLANCE
CENTRAL REGIONAL WASTEWATER SYSTEM
PROPOSED OPERATION AND MAINTENANCE BUDGET

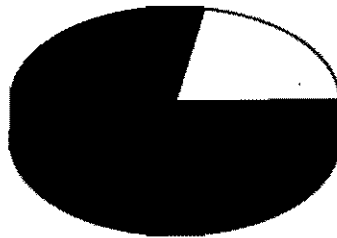
Revenue	\$58,419,360
Expenses	\$58,077,710
Variance (Retained for FY 2004 Debt Requirements)	\$341,650

Revenue



- 93.49% Contract Revenue
- 2.64% Interest Income
- 1.68% Miscellaneous Income
- 1.42% Operating Overhead and Services
- 0.77% Professional Fees

Expenses



- 55.49 Debt Service and Miscellaneous
- 22.02% Other Services and Charges
- 14.46% Personal Services
- 6.12% Supplies
- 1.91% Capital Outlays

FISCAL YEAR 2003
FUND SUMMARY

Revenue Summary

Contract Revenue	\$54,613,900
Operating Overhead and Services	\$831,510
Professional Fees	\$450,000
Interest Income	\$1,544,900
Miscellaneous Income	\$979,050
Total Sources of Funds	\$58,419,360

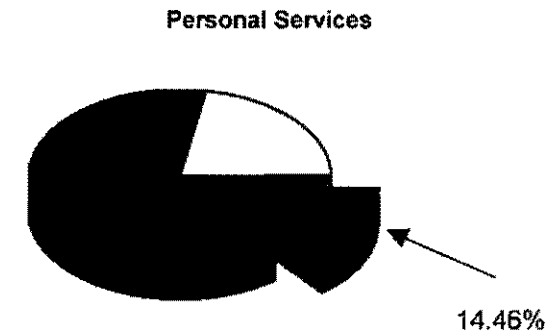
Expenditure Summary

Personal Services	\$8,399,720
Supplies	\$3,556,400
Other Services and Charges	\$12,785,680
Capital Outlays	\$1,108,790
Debt Service and Miscellaneous	\$32,227,120
Total Application of Funds	\$58,077,710

**EXHIBIT D
CENTRAL REGIONAL WASTEWATER SYSTEM**

**PERSONAL SERVICES
FY 2003**

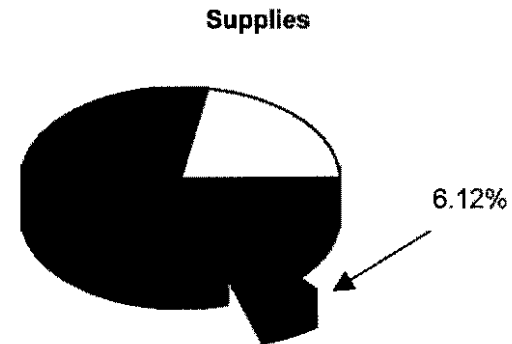
- Proposed FY 2003 of \$8,399,720 vs Current FY 2002 of \$7,901,870 = Variance \$497,850 or + 6.3%.
- The budget category of Personal Services includes eight line item accounts. As compared with present budget, one line item account decreased (-) \$2,000 (Education), one remained unchanged (Unemployment Compensation) and five increased (+) \$499,850 (Salaries, FICA, Health/Life Insurance, Pension, and Employee Service Recognition).
- The anticipated increase in salaries and related benefit costs is partly due to usual provisions for forecasted salary adjustments based on merit, varying with each individual employee. Also, provisions are included for cost increases in the Authority's Health Insurance expenses due to claims experience that has resulted in premium increases.
- Authority management believes that the Central facility can be operated efficiently and maintain adequate margins of safety with one Project Manager, an Operations/Maintenance staff of 98, plus 52 Technical Services/Pretreatment staff, Administrative staff of 9, and 7 Purchasing/Warehouse staff.



Personal Services expenditures include those costs associated with the staffing required to operate, maintain, and administer the treatment plant, biosolids program, laboratory, pretreatment program, collection system, and meter stations. Significant line item accounts in this category of expenditures include salaries, payroll taxes, health insurance, and pension.

EXHIBIT E
CENTRAL REGIONAL WASTEWATER SYSTEM
SUPPLIES
FY 2003

- Proposed FY 2003 of \$3,556,400 vs Current FY 2002 of \$3,177,200 = Variance \$379,200 or + 11.9%.
- The budget category of Supplies includes eight line items accounts. As compared with the present budget, three decreased (-) \$7,810 (Office Supplies, TNRCC Fees and Fuel) and the remaining five line item accounts increased (+) \$387,010 (Dues, Maintenance and Operating Supplies, Lab Supplies, Process Chemicals, and Computer Software, Licenses and Instrument Supplies).
- Over 70% of the expenditures for Supplies is for the purchase of process chemicals. The increase of \$102,100 in anticipated process chemical expenditures is primarily associated with an increase for ferric chloride and polymer necessary for solids thickening and dewatering, as well as ferrous chloride for odor control.
- Included in the Computer Software, Licenses and Instrument Supplies account is the Project's share of an Authority-wide Enterprise Resource Planning software which will integrate financial, payroll, human resources, budget reporting, asset management, and purchasing into one integrated system. The cost to purchase and implement will be budgeted over a three-year period.

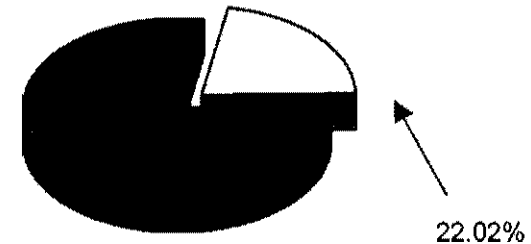


Approximately 70% of the expenditures in this category are for the purchase of process chemicals necessary for sludge thickening, dewatering and stabilization, odor control, effluent disinfection and dechlorination, and other treatment processes.

EXHIBIT F
CENTRAL REGIONAL WASTEWATER SYSTEM
OTHER SERVICES AND CHARGES
FY 2003

- Proposed FY 2003 of \$12,785,680 vs Current FY 2002 of \$12,104,910 = Variance \$680,700 or + 5.6%.
- The budget category of Other Services and Charges includes 22 line item accounts. As compared with the present budget, one remained unchanged (Legal), six line item accounts decreased (-) \$394,930, and fifteen increased (+) \$1,075,000.
- Over 85% or \$279,320 of the decreased expenditures in this category is for power usage due to the competitive negotiation of an energy contract for the time period of January 1, 2001 through May 31, 2003. The remaining decreases in this category are due to reduced expenses for telephone, printing and binding, training, repair and maintenance of plant and buildings, and equipment rental.
- This category of expenditures includes increases in Authority audit expense, engineering services, Authority's computer network, process SCADA and maintenance management system support services, professional services, postage, Project insurance payments, employee travel, laundry and uniforms, water usage, repair and maintenance of collection system, equipment, vehicles and electrical systems, off-site biosolids land application, and administrative overhead costs.

Other Services and Charges

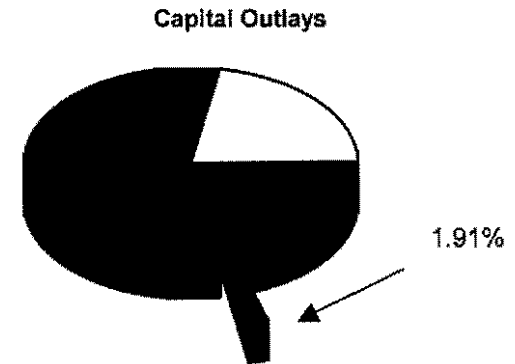


This category of expenditures relates to the indirect costs associated with the collection and treatment system, vehicles, and off-site biosolids disposal.

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**EXHIBIT G
CENTRAL REGIONAL WASTEWATER SYSTEM
CAPITAL OUTLAYS
FY 2003**

- Proposed FY 2003 of \$1,108,790 vs. Current FY 2002 of \$887,950 = Variance (+) \$220,840 or 24.9%.
- The Capital Outlays category can vary significantly from year to year as major equipment is only purchased on an annual as needed basis.
- This category consists of 60% or \$659,790 of capital expenditures for replacement items and 40% or \$449,000 of new capital equipment items proposed for purchase in FY 2003.
- Approximately 62% or \$457,000 of the proposed Capital Outlay items for replacement are for the Project Manager's sedan, three trucks, the heavy equipment item of a boom truck which all have excessive mileage and wear due to age, and replacement of two analytical laboratory spectrophotometers for identifying metal compounds (inductively coupled plasma spectrophotometer and heat graphite atomic absorption unit). Approximately 76% of the primary expenses under the category of new items is for security electronic surveillance equipment, a Vactor/rodger assembly, and one new utility vehicle for the pretreatment program.
- A list of all the projected capital expenditures is on pages 27 and 28 of the attached proposed FY 2003 Budget.

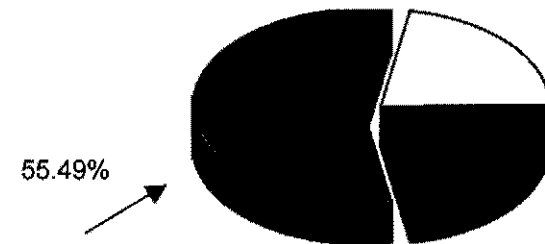


The category of Capital Outlays consists of the purchase of machinery and equipment to achieve a new purpose or replace existing equipment.

**EXHIBIT H
CENTRAL REGIONAL WASTEWATER SYSTEM
DEBT SERVICES AND MISCELLANEOUS
FY 2003**

- Proposed FY 2003 of \$32,227,120 vs. Current FY 2002 of \$30,280,200 = Variance (+) \$1,946,920 or (+) 6.4%.
- The amount budgeted for Debt Service reflects the fixed and established schedules based on outstanding debt of the Central System.
- In July 1998, the Authority issued \$50,845,000 in Regional Wastewater System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects for the Central Regional Wastewater System. These bonds were purchased by the State Revolving Funds of the Texas Water Development Board.
- In September 1998, the Authority issued \$66,950,000 in System Improvement and Refunding Bonds, with \$61,375,000 being refunded, producing a savings of \$2.7 million through the life of the bond.
- In July 2001, The Authority issued \$88,225,000 in Regional Wastewater System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects for the Central Regional Wastewater System. These bonds were purchased by the State Revolving Funds of the Texas Water Development Board.
- The increase in debt expenditures over the present FY 2002 Budget is due to the overall increase in scheduled debt service payments in FY 2003.

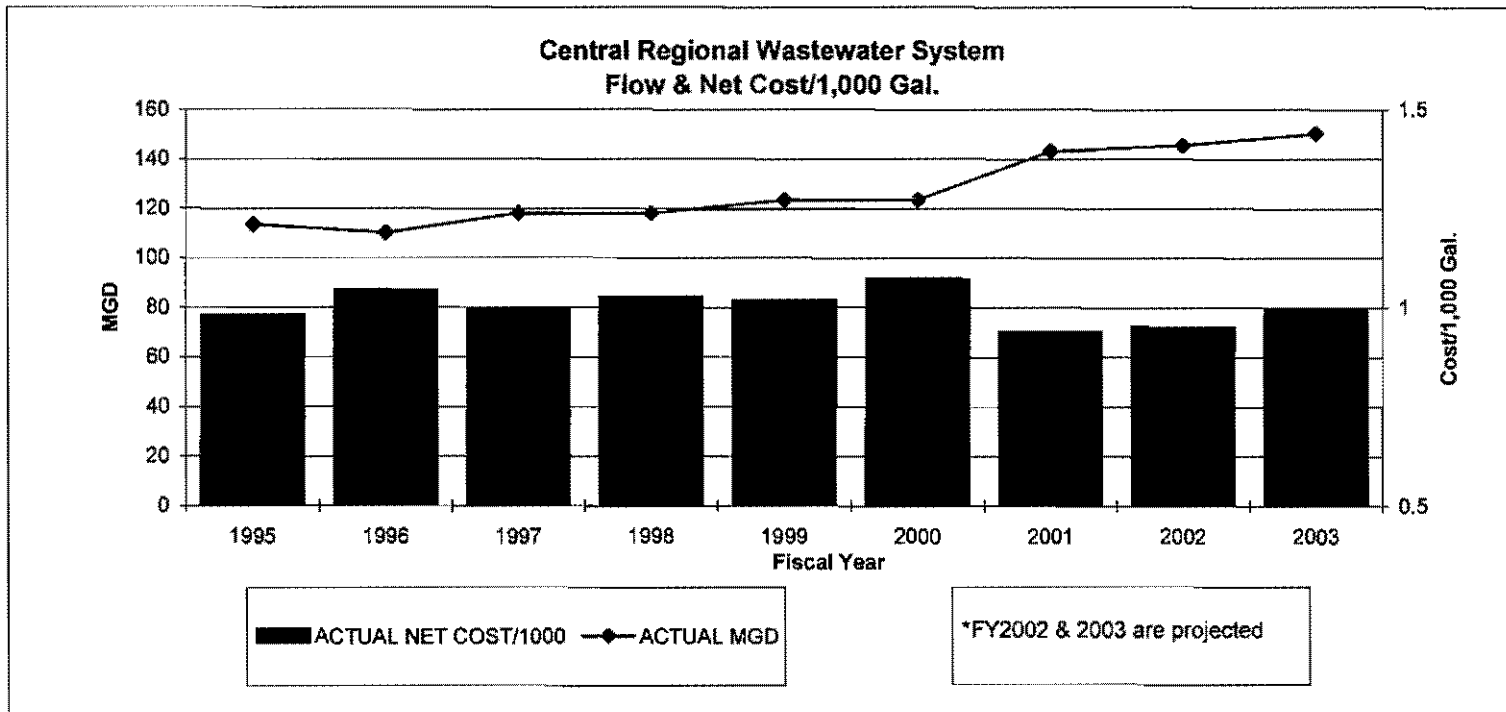
Debt Service and Miscellaneous



Debt Services and Miscellaneous includes the annual principal and interest payments due on System bonds and the associated paying agent fees. Typically, annual principal and interest payments are structured to provide relatively level debt service requirements from year to year until such time as additional bonds are issued.

**EXHIBIT I
CENTRAL REGIONAL WASTEWATER SYSTEM
CURRENT AND HISTORICAL SYSTEM FINANCIAL AND FLOW DATA**

FISCAL YEAR	BUDGETED EXPENDITURES	ACTUAL EXPENDITURES	BUDGETED REVENUE	ACTUAL REVENUE	PROJECTED FLOW	ACTUAL FLOW	PROJECTED NET COST/1,000 GAL.	ACTUAL COST/1,000 GAL.
1995	\$44,817,530	\$43,621,706	\$41,915,240	\$40,594,960	112.37 MGD	113.37 MGD	\$1.0220	\$0.9810
1996	\$47,693,245	\$46,327,057	\$44,889,460	\$42,064,179	114.14 MGD	110.08 MGD	\$1.0745	\$1.0440
1997	\$48,358,525	\$47,401,825	\$45,233,590	\$42,891,464	116.00 MGD	118.01 MGD	\$1.0683	\$0.9958
1998	\$47,014,070	\$46,752,148	\$43,601,935	\$43,673,073	118.28 MGD	118.04 MGD	\$1.0099	\$1.0136
1999	\$50,390,530	\$50,691,945	\$45,859,710	\$45,808,213	123.31 MGD	120.64 MGD	\$1.0189	\$1.0403
2000	\$51,066,490	\$51,361,749	\$47,812,790	\$48,442,041	127.41 MGD	123.47 MGD	\$1.0253	\$1.0720
2001	\$54,509,150	\$56,087,461	\$49,187,660	\$51,953,155	143.13 MGD	146.49 MGD	\$0.9415	\$0.9716
2002	\$54,352,130	*	\$50,421,660	*	145.52 MGD	*	\$0.9493	*
2003	\$58,077,710	*	\$54,613,900	*	150.15 MGD	*	\$0.9965	*



TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3210) CONTRACT REVENUE - ADDISON</u>			
(1106.3210) Operation & Maintenance			
\$23,602,030 x 1.518%	\$ 358,278.82		
(1108.321) Debt Service			
\$31,011,893 x 1.518%	470,760.53		
Rounding	0.65		
Total Annual Requirement		\$ 829,040	\$ 839,020
<u>(1106.3380) INTER-FUND SERVICES & CHARGES</u>			
Clean Rivers Program (TNRCC)	70,000.00		
Ten Mile Creek	193,360.00		
Denton Creek	36,600.00		
Red Oak Creek	11,100.00		
Tarrant County	35,500.00		
Walker-Calloway Branches	21,000.00		
Mountain Creek	16,680.00		
Northeast Lakeview	5,100.00		
Joe Pool Lake	25,000.00		
Total Annual Requirement		414,340	-
<u>(1106.3390) OPERATING OVERHEAD - OTHER PROJECTS</u>			
DCURD #1	356,390.00		
Ten Mile Creek	19,520.00		
Denton Creek	9,260.00		
Red Oak Creek	3,920.00		
Tarrant County	28,080.00		
Total Annual Requirement		417,170	693,190
<u>(1106.3980) PROFESSIONAL FEES</u>		450,000	450,000
<u>(1108.3810) INTEREST INCOME - I & S</u>		229,600	489,580
<u>(1108.3820) INTEREST INCOME - RESERVE FUND</u>		1,147,800	1,416,420
<u>(110.8.3840) INTEREST INCOME - REVENUE FUND</u>		123,500	336,320
<u>(1108.3870) INTEREST INCOME - EMERGENCY FUND</u>		44,000	93,030
<u>(1106.3400) OVERSTRENGTH SURCHARGE</u>		600,000	600,000
<u>(1106.3410) NORTHEAST LAKEVIEW LIFT STATION</u>		-	14,650
<u>(1106.3430) PRETREATMENT REVENUE</u>		22,000	22,000
<u>(1106.3440) COMMODITY CHARGE</u>		51,810	51,810
<u>(1106.3480) QUANTITY SURCHARGE</u>			
City of Addison		36,800	36,800
<u>(1106.3990) MISCELLANEOUS INCOME</u>		268,440	10,000

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Salaries Under the Salary Administration Plan for the Following:		
Manager, Central Regional Wastewater System	1	
Maintenance Engineer	1	
Sub-Total	2	
Manager, System Operation	1	
Operations Division Chief	2	
Chief Operator	8	
Senior Operator	7	
Operator II	17	
Operator I	7	
Maintenance Division Chief	2	
Chief Maintenance Mechanic	6	
Senior Maintenance Mechanic	20	
Maintenance Mechanic II	11	
Maintenance Mechanic I	2	
E/E Division Chief	1	
Chief Electrician	1	
Chief Electronic Technician	1	
Senior Electrician	2	
Senior Electronic Technician	3	
Electronic Technicial II	1	
Electrician II	3	
Senior HVAC Technician	1	
Process Maint Planner/Scheduler	0	
Information Systems Technician	0	
Process Systems Automation Engineer	1	
Sub-Total	97	

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Manager, Technical Services	1	
Laboratory Division Chief	1	
Laboratory Supervisor	3	
Quality Assurance Coordinator	1	
Senior Biologist	2	
Senior Chemist	5	
Biologist	7	
Chemist	2	
Laboratory Technician II	2	
Laboratory Technician I	1	
Laboratory Technician/Bookkeeper	0	
Technical Services Engineer	1	
Environmental Services Coordinator	1	
Interceptor System Specialist	2	
Chief Maintenance Mechanic	1	
Senior Maintenance Mechanic	3	
Maintenance Mechanic II	4	
Chief Electronic Technician (Instrument Technician)	1	
Senior Electronic Technician (Instrument Technician)	1	
Electronic Technician II (Instrument Technician)	3	
Senior Secretary	1	
Field Technician II	1	
Sub-Total	44	
Manager, Administrative Services	1	
Office Coordinator	1	
Senior Secretary	5	
Accounting Clerk	1	
Training Coordinator	1	
Sub-Total	9	
Purchasing/Warehouse		
Purchase/Warehouse Supervisor	1	
Buyer	2	
Assistant Buyer	1	
Senior Storekeeper	2	
Senior Secretary	1	
Sub-Total	7	
Total Project Positions W/O Pretreatment	159	

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Total Project Base Salaries w/Shift Diff		\$ 5,903,629
Total Project Holiday and Overtime Pay		284,781
Rounding		
Total Project Salaries		6,188,410
Pretreatment		
Pretreatment Coordinator	1	
Senior Secretary	1	
Environmental Inspector	3	
Senior Field Technician	2	
Field Technician II	<u>1</u>	
Total Pretreatment Positions	8	
Total Pretreatment Base Salaries w/Shift Diff		268,506
Total Pretreatment Holiday and Overtime Pay		<u>8,974</u>
Rounding		
Total Pretreatment Salaries		277,480
Total FY 2003 Budgeted Positions	<u>167</u>	
Total FY 2003 Budgeted Salaries		<u>\$ 6,465,890</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4000) SALARIES - REGULAR</u>			
(01) PROJECT			
157 Employees	\$ 6,151,040.00		
(01) PRETREATMENT			
8 Employees	<u>277,480.00</u>		
Total Salaries - Regular		\$ 6,428,520	\$ 6,251,780
<u>(1106.4010) SALARIES - PART-TIME</u>			
		37,370	-
<u>(1106.4020) PAYROLL TAXES - FICA</u>			
(01) PROJECT			
\$ 6,188,410.00 x 7.65% =	473,413.37		
(01) PRETREATMENT			
\$ 277,480.00 x 7.65% =	21,227.22		
Rounding	<u>(0.59)</u>		
Total Payroll Taxes - Fica		494,640	478,260
<u>(1106.4030) EMPLOYEE BENEFIT - HEALTH/LIFE INSURANCE</u>			
PROJECT			
(01) Health			
\$ 223.70 X 109 X 12	292,599.60		
\$ 352.62 X 7 X 12	29,620.08		
\$ 306.03 X 11 X 12	40,395.96		
\$ 399.19 X 18 X 12	86,225.04		
Provision for increase 25%	112,210.17		
(02) Life Insurance/AD&D:	34,274.00		
(03) Long Term Disability:	22,863.00		
(04) Employee Assistance Program:	4,770.00		
PRETREATMENT			
(01) Health			
\$ 223.70 X 7 X 12	18,790.80		
\$ 352.62 X 0 X 12	-		
\$ 306.03 X 0 X 12	-		
\$ 399.19 X 1 X 12	4,790.28		
Provision for increase 25%	5,895.27		
(02) Life Insurance:	1,548.00		
(03) Long Term Disability:	1,027.00		
(04) Employee Assistance Program:	240.00		
rounding	<u>0.80</u>		
Total Emp. Ben. - Health/Life Insurance		655,250	411,770

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4040) EMPLOYEE BENEFIT - PENSION</u>			
(01)PROJECT	\$ 708,440.00		
(01) PRETREATMENT	<u>32,220.00</u>		
Total Emp. Ben. - Pension		\$ 740,660	\$ 715,800
<u>(1106.4060) UNEMPLOYMENT COMPENSATION</u>			
(01) PROJECT	19,300.00		
(01) PRETREATMENT	<u>700.00</u>		
Total Unemployment Compensation		20,000	20,000
<u>(1106.4070) EMPLOYEE RECOGNITION PROGRAM</u>			
(01) PROJECT			
Service Awards	\$ 16,280.00		
(01) PRETREATMENT	<u>-</u>		
Total Employee Recognition Program		16,280	15,260
<u>(1106.4080) EMPLOYEE BENEFIT - EDUCATION</u>			
(01) PROJECT	6,200.00		
(01) PRETREATMENT	<u>800.00</u>		
Total Employee Benefit - Education		7,000	9,000
Total Personal Services		8,399,720	7,423,610
<u>(1106.4100) OFFICE SUPPLIES</u>			
PROJECT			
(01) Consumables	16,600.00		
(02) Non-Consumables	9,150.00		
(03) Computer/Copier Supplies	14,500.00		
(05) Vending and Lunchroom Supplies	8,000.00		
PRETREATMENT			
(01) Consumables	300.00		
(02) Non-Consumables	500.00		
(03) Computer/Copier Supplies	1,000.00		
(05) Vending and Lunchroom Supplies	<u>150.00</u>		
Total Office Supplies		50,200	51,200
<u>(1106.4110) DUES & SUBSCRIPTIONS</u>			
PROJECT			
(01) Professional/Technical Memberships			
AMSA/AWWA	12,000.00		
American Society for Human Resources	390.00		
American Water Resource Association	250.00		
Chlorine Institute	700.00		
Natl Assoc of Purchasing Managers	700.00		
Nat Safety Council/TX Safety Association	210.00		
TX Water Utilities Association	700.00		
WEF/WEAT	1,520.00		
WERF	34,000.00		
(02) Periodicals/Magazines/Newspapers	2,800.00		
(03) Reference Books	1,400.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
PRETREATMENT			
(01) Professional/Technical Memberships			
AMSA/AWWA	\$ 210.00		
(03) Reference Books	970.00		
	<hr/>		
Total Dues and Subscriptions		\$ 55,850	\$ 54,860
<u>(1106.4120) FEES OTHER THAN DUES & SUBSCRIPTIONS</u>			
PROJECT:			
(01) Certification Fees	\$ 5,400.00		
(02) TNRCC VVW Inspect & WQA Fees	75,000.00		
(05) TNRCC Sludge Fee	100.00		
(06) Tier Two Fees	10.00		
PRETREATMENT			
(01) Certification Fees	400.00		
	<hr/>		
Total Fees Other Than Dues & Subscriptions		80,910	86,910
<u>(1106.4130) MAINTENANCE AND OPERATING SUPPLIES</u>			
PROJECT			
(01) Repair/Replacement of Hand Tools	25,300.00		
(02) Operational Supplies	17,000.00		
(03) Maintenance Supplies	27,000.00		
(04) Ground Care Supplies	13,000.00		
(05) Janitorial and Cleaning Supplies	6,000.00		
(06) Electrical Supplies	28,000.00		
(07) Facilities Supplies	15,000.00		
(08) Protective/Safety Equipment	35,000.00		
PRETREATMENT			
(01) Repair/Replacement of Hand Tools	280.00		
(02) Operational Supplies	150.00		
(05) Janitorial and Cleaning Supplies:	200.00		
	<hr/>		
Total Maintenance and Operating Supplies		166,930	146,590
<u>(1106.4140) LAB SUPPLIES</u>			
PROJECT			
(01) Gases	13,000.00		
(02) Water System	4,000.00		
(03) Bacti-Filters, Media and Supplies	60,000.00		
(04) AA, ICP, and IR Supplies	5,000.00		
(05) Gas Chromatog Supplies	13,000.00		
(06) TOC and MCTS-10 Supplies	3,000.00		
(07) Lab Apparatus	22,000.00		
(08) Chemical Reagents	63,000.00		
(09) Glassware, Plastics, and Disposables	55,000.00		
(10) Filters, Glass Fiber, Prefilters and Membrane	20,000.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4140) LAB SUPPLIES (Continued)</u>			
PRETREATMENT			
(11) Field Sampling Supplies	1,000.00		
(12) Operational Supplies	5,000.00		
(13) Nuclear Sources - Wipe Test & Refoil	300.00		
(14) Other - Freight and Shipping	1,000.00		
(07) Lab Apparatus	850.00		
(08) Chemical Reagents and Standards	500.00		
(09) Glassware, Plastics, and Disposables	2,900.00		
(11) Field Sampling Supplies	10,500.00		
(14) Other - Freight and Shipping	300.00		
Total Lab Supplies		\$ 280,350	\$ 273,350
<u>(1106.4150) PROCESS CHEMICALS AND SUPPLIES</u>			
PROJECT			
(01) Lime	1,107,278.00		
(02) Ferric Chloride	251,328.00		
(03) Chlorine	292,500.00		
(04) Polymer	476,784.00		
(05) Hydrochloric Acid	5,000.00		
(06) Sodium Hydroxide	8,000.00		
(07) Citric Acid	500.00		
(08) Filter Cloths	68,000.00		
(09) Tie Wraps, Bags, Sludge Judges, Etc.	7,000.00		
(10) Taste/Odor Control	150,000.00		
(11) Boiler Chemicals	2,000.00		
(12) Sulfur Dioxide	155,610.00		
Total Process Chemicals and Supplies		2,524,000	2,421,900
<u>(1106.4160) FUEL, OIL, AND LUBRICANTS</u>			
PROJECT			
(01) Gasoline	35,770.00		
(02) Diesel Fuel	19,000.00		
(03) Solvents/Cleaners	12,000.00		
(04) Anti-Freeze	1,880.00		
(05) Grease	5,450.00		
(06) Lubricants	25,000.00		
(07) Propane	250.00		
PRETREATMENT			
(01) Gasoline	4,000.00		
(04) Anti-Freeze	30.00		
(05) Grease	50.00		
(06) Lubricants	200.00		
Total Fuel, Oil, and Lubricants		103,630	104,440

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4170) COMPUTER SOFTWARE, LICENSES & INSTRUMENT SUPPLIES</u>			
PROJECT			
(01) Metering Supplies	\$ 13,000.00		
(02) Instrument Repair	16,000.00		
(03) Drafting/Engineering Supplies	5,000.00		
(04) Line Surveillance	3,000.00		
(05) FM Telemetry	2,000.00		
(06) Metering Electrical Repairs	5,000.00		
(07) G/L, HR & PR Software	250,080.00		
PRETREATMENT			
(01) Metering Supplies	150.00		
(02) Instrument Repair	300.00		
Total Computer and Instrument Supplies		\$ 294,530	\$ 37,950
Total Supplies		3,556,400	3,177,200
<u>(1106.4200) AUDITING</u>			
(01) Audit		37,500	36,000
<u>(1106.4210) ENGINEERING</u>			
PROJECT			
(01) Engineering Studies	83,090.00		
(02) I/I Prorations	80,000.00		
(03) Triennial Report/Annual Update	25,000.00		
(04) Pipeline Repairs/Erosion Control	35,000.00		
Total Engineering		223,090	160,000
<u>(1106.4220) LEGAL</u>			
(01) Legal		20,000	20,000
<u>(1106.4230) OUTSIDE SERVICES</u>			
PROJECT			
(01) Advertising	60,000.00		
(02) Graphics, Displays, Etc.	7,000.00		
(03) Construction Services Charges	50,000.00		
(04) Security Monitoring/Support	17,560.00		
(05) Solid Waste Disposal (Odor Control)	34,000.00		
(06) Contract Labor	10,000.00		
(07) PC/Network/SCADA Support	373,680.00		
(08) Software Maintenance - G/L, HR & PR	90,000.00		
PRETREATMENT			
(01) Advertising	1,150.00		
(02) Graphics, Displays, Etc.	200.00		
(06) Contract Labor	1,000.00		
Total Outside Services		644,590	335,620

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4240) OTHER PROFESSIONAL SERVICES</u>			
PROJECT			
(01) Drug Testing	\$ 10,000.00		
(02) U.S.G.S. Payments	26,500.00		
(03) Motor Vehicle Reports	1,200.00		
(04) Outside Testing - Laboratory	86,000.00		
(05) Custodian Fees	52,000.00		
(06) NEXRAIN Studies	20,000.00		
PRETREATMENT			
(01) Drug Testing	-		
(04) Outside Testing - Laboratory	<u>2,000.00</u>		
Total Other Professional Services		\$ 197,700	\$ 175,650
<u>(1106.4300) TELEPHONE & TELEMETERING</u>			
PROJECT			
(01) Telephone/Telemetering	28,000.00		
(02) Pagers	5,400.00		
(03) Mobile Telephones (62)	41,640.00		
(04) Internet Access	10,820.00		
PRETREATMENT			
(01) Telephone/Telemetering	1,000.00		
(02) Pagers	360.00		
(03) Mobile Telephones (7)	<u>3,840.00</u>		
Total Telephone & Telemetering		91,060	106,570
<u>(1106.4310) POSTAGE</u>			
PROJECT			
(01) Postage Meter	3,300.00		
(02) Stamps/Shipping	4,500.00		
PRETREATMENT			
(01) Postage Meter	500.00		
(02) Stamps/Shipping	<u>220.00</u>		
Total Postage		8,520	8,220
<u>(1106.4320) PRINTING AND BINDING</u>			
PROJECT			
(01) Special Forms	3,550.00		
(02) Letterhead, Envelopes, and Stationary	3,200.00		
(03) Manuals, Handbooks, Etc.	3,000.00		
PRETREATMENT			
(01) Special Forms	950.00		
(02) Letterhead, Envelopes, and Stationary	<u>310.00</u>		
Total Printing and Binding		11,010	12,730

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4330) INSURANCE PAYMENTS</u>			
PROJECT			
(01) Fire	\$ 81,550.00		
(02) General Liability	15,750.00		
(03) Automobile	26,390.00		
(04) Contractor Equipment	-		
(05) Workers' Compensation	136,440.00		
(06) Director/Officer's Liability	17,050.00		
(07) Blanket Bond	1,490.00		
(08) Equipment Floater	<u>8,760.00</u>		
Total Insurance Payments		\$ 287,430	\$ 179,420
<u>(1106.4360) TRAVEL</u>			
PROJECT			
(01) CRWS Employees on Authority Business	15,550.00		
(02) Others on Authority Business	750.00		
PRETREATMENT			
(01) CRWS Employees on Authority Business	3,000.00		
(02) Others on Authority Business	<u>-</u>		
Total Travel		19,300	16,500
<u>(1106.4370) LAUNDRY, UNIFORM & IND. EQUIP.</u>			
PROJECT			
(01) Uniform Rental	38,770.00		
(03) Patches/Hats	650.00		
(04) Towels, Mops, Mats	9,000.00		
PRETREATMENT			
(01) Uniform Rental	<u>650.00</u>		
Total Laundry, Uniform, & Ind. Equip.		49,070	44,350
<u>(1106.4380) TRAINING</u>			
PROJECT			
(01) Training			
Wastewater Certification Training	11,900.00		
Safety Training	11,920.00		
Technical Training	23,320.00		
Enhanced Skills/Supervisory Training	9,450.00		
Training Manuals/Videos	8,410.00		
Purchasing Certification Classes	3,000.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
PRETREATMENT			
(01) Training			
Wastewater Certification Training	600.00		
Safety Training	600.00		
Technical Training	1,180.00		
Enhanced Skills/Supervisory Training	-		
Training Manuals/Videos	220.00		
Total Training		\$ 70,600	\$ 111,940
<u>(1106.4400) UTILITIES</u>			
PROJECT			
(01) Natural Gas	85,000.00		
(02) Water	35,000.00		
Total Utilities		120,000	105,000
<u>(1106.4420) POWER</u>			
(01) Power		4,553,480	4,832,800
<u>(1106.4430) R & M - COLLECTION SYSTEM</u>			
PROJECT			
(01) Meter Station Structure Rehabilitation	20,000.00		
(02) Manhole/Junction Box Rehabilitation	21,000.00		
(03) System Repairs/Line Cleaning/TV	317,750.00		
(04) Lift Station/ROW Maintenance	11,000.00		
Total R & M - Collection System		369,750	245,000
<u>(1106.4440) R & M - EQUIPMENT</u>			
PROJECT			
(01) Shop Equipment	4,000.00		
(02) Dumpsters	5,400.00		
(03) Compressors and Generators	4,500.00		
(04) Fuel Powered and Electrical Equipment	11,200.00		
(05) Office and Video Equipment	5,100.00		
(06) Analytical Equip Repair - Non Contract	29,000.00		
(07) Service Contracts- Analytical Equipment	10,000.00		
(08) Perkins-Elmer Equipment	14,000.00		
(09) Mowers/Tractors	12,000.00		
(10) Tracked Vehicles & Heavy Equipment	55,000.00		
(11) Carts	1,000.00		
(12) Heavy Trucks	50,000.00		
(13) Trailers	15,000.00		
(15) Tire Repair	3,000.00		
(16) High Pressure Units	1,000.00		
(17) Forklifts	3,000.00		
Total R & M - Equipment		223,200	218,300

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4450) R & M - PLANT AND BUILDINGS</u>			
PROJECT			
(01) Packing and Seals	\$ 15,000.00		
(02) Road Repair Materials	30,000.00		
(03) Machine Shop Stock	5,000.00		
(04) Mechanical Plating and Coating	28,000.00		
(05) Clarifiers, Aeration, Equalization Basins	25,000.00		
(06) Specialized Balancing and Machining	5,000.00		
(07) Valves, Valve Operators, Pipe, Etc.	40,000.00		
(08) Positive Displacement Pumps/Repairs	125,000.00		
(09) Filter Press Parts	24,000.00		
(10) Pump Repair, Pump Parts, Machining	130,000.00		
(11) Conveyer System Parts	22,000.00		
(12) Industrial Air/Oil Filters	4,000.00		
(13) Power Transmission Parts/Repairs	40,000.00		
(14) Building/Structural Repair	15,000.00		
(15) Chlorination/Dechlorination	15,000.00		
(16) Railroad Repairs	21,000.00		
(17) Stormwater Regulations - Street Cleaning	9,600.00		
(18) Blower Parts/Repairs	39,000.00		
(19) Crane Inspection & Servicing	17,000.00		
(20) Anaerobic Digester Clean/Rehab	120,000.00		
	<hr/>		
Total R & M - Plant and Buildings		\$ 729,600	\$ 777,350
<u>(1106.4460) R & M - VEHICLES</u>			
PROJECT			
(01) Automobiles	5,000.00		
(02) Pickup Trucks	28,000.00		
(03) Tire Repair	6,400.00		
(04) Other- Batteries, Wiper Blades, etc.	2,000.00		
PRETREATMENT			
(02) Pickup Trucks	1,500.00		
(03) Tire Repair	600.00		
	<hr/>		
Total R & M - Vehicles		43,500	40,400

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4480) R & M - ELECTRICAL</u>			
PROJECT			
(01) Components	\$ 30,000.00		
(02) Signal Cable and Wire	6,000.00		
(03) Electronic Equipment Repair	69,000.00		
(04) Repairs of Pneumatic Systems	1,000.00		
(05) FM Telemetry	2,000.00		
(06) Computer Maintenance	30,000.00		
(07) Vendor Service/Repair	50,000.00		
(08) Calibration	5,000.00		
(09) Electrical Parts & Materials	150,000.00		
(10) Motor Overhaul	100,000.00		
(11) HVAC Parts and Repair	138,000.00		
(12) Elevator Repair and Service	5,000.00		
(13) Cathodic Test	<u>1,000.00</u>		
 Total R & M - Electrical		\$ 587,000	\$ 510,150
<u>(1106.4490) OFF-SITE BIOSOLID LAND APPLICATION</u>			
(02) Beneficial Reuse		2,665,190	2,534,140
<u>(1106.4510) RENT - MACHINERY & EQUIPMENT</u>			
PROJECT			
(01) Cranes and Other Heavy Equipment	15,000.00		
(02) Compressors and Special Equipment	14,000.00		
(03) Postage Meter	1,500.00		
(04) Tool Rental	1,000.00		
(05) Copier Rental	36,020.00		
(07) Cylinder Rental	8,000.00		
(08) Other Rental	<u>4,000.00</u>		
 Total Rent - Machinery & Equipment		79,520	88,810
<u>(1106.4660) ADMINISTRATIVE OVERHEAD</u>			
PROJECT			
(01) Related Cost Method Allocation		1,754,570	1,545,960
 Total Other Services and Charges		12,785,680	12,104,910

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4760) MACHINERY & EQUIPMENT</u>			
(01)PROJECT-Replacement:			
(1) Sedan	\$ 17,000.00		
(1) Reception Area Sofa	1,500.00		
(2) Reception Area Chairs	750.00		
(2) Reception Area Tables	750.00		
(2) Compact Trucks	24,000.00		
(3) MCC/PLC Cabinet-5 Ton Spot Coolers	30,000.00		
(1) 2300 Volt Power Dist. Transformer PS#6	10,000.00		
(1) Process Control Signal Controller Software	2,750.00		
(4) Portable Laptop Programmers	7,000.00		
(1) Laser Jet Color Printer	3,500.00		
(4) Heavy Duty Infrared Heaters	4,000.00		
(1) Boom Truck	180,000.00		
(1) Tractor	40,000.00		
(1) Sludge Hauling Trailer	28,000.00		
(1) Hot Water Pressure Washer	7,000.00		
(1) Inductively Coupled Plasma Spectrophotor	150,000.00		
(1) Laboratory Distillation System	22,000.00		
(1) Heated Graphite Atomic Absorption Unit	62,000.00		
(1) Microbiological Heat Sealing Unit	2,000.00		
(6) Ultra Sonic Flow Meters	9,600.00		
(2) Portable Area/Velocity Flow Meters	6,200.00		
(1) Global Position System (GPS/GIS) Instr.	20,000.00		
(1) Truck Camper	1,650.00		
(1) 3/4 Ton 4X4 Truck	24,000.00		
(1) 12 inch Pipe Saw	1,600.00		
(2) Truck Winches	<u>2,200.00</u>		
		\$ 657,500	\$ 704,550
PRETREATMENT- Replacement:			
(1) Cont. pH & Temp Module/Data Recorder	<u>2,290.00</u>	2,290	38,000

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
(02) PROJECT- New:			
(3) Portable Gas Detectors	\$ 5,700.00		
(1) 2-Way Emerg. Response Radio Interface	4,000.00		
(1) 30 Cubic Yard Dumpster	4,500.00		
(2) 3 inch Portable 13HP Gas-Driven Pumps	5,000.00		
(2) Bar Screen Lubrication System	6,000.00		
(1) Gate Valve Portable Power Drive	1,300.00		
(4) Electronic Equipment Cabinets	8,000.00		
(1) Fiber Cable Termination Kit	2,750.00		
(1) Teleconferencing Equipment	19,900.00		
(1) Network Performance Analyzer Software	1,850.00		
(1) Trailer Axle Assembly	14,000.00		
(1) Gasoline Hand Auger	2,400.00		
(1) Vactor/Rodder Decant Pump	5,200.00		
(4) 2-Way Radio Noise Reduced Headsets	5,600.00		
(1) Portable H2S Monitors & Recorders	5,600.00		
(1) Confined Space Fall Arrestor	2,400.00		
(1) Confined Space Manlift	2,300.00		
(1) Portable Diesel Light Standard	7,500.00		
Electronic Surveillance Equipment	288,400.00		
(1) Vactor/Rodder Easement Reel Assembly	<u>32,000.00</u>		
		\$ 424,400	\$ 145,400
PRETREATMENT- New			
(1) Utility Vehicle	23,000.00		
(1) Camper for Utility Vehicle	<u>1,600.00</u>		
		<u>24,600</u>	
Total Machinery and Equipment		1,108,790	887,950

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1108.4800) BOND PRINCIPAL PAYMENTS</u>			
Due 8/01/2003:			
Series 1993	10,245,000.00		
Series 1995	1,855,000.00		
Series 1998A	2,220,000.00		
Series 1998B	2,105,000.00		
Series 2001	<u>5,000.00</u>		
 Total Bond Principal Payments		\$ 16,430,000	\$ 15,580,000
<u>(1108.4810) INTEREST ON LONG TERM-DEBT</u>			
Due 2/01/2003:			
Series 1993	4,098,594.38		
Series 1995	262,951.25		
Series 1998A	833,566.25		
Series 1998B	1,408,403.75		
Series 2001	1,426,051.25		
Due 8/01/2003:			
Series 1993	4,098,594.38		
Series 1995	262,951.25		
Series 1998A	833,566.25		
Series 1998B	1,408,403.75		
Series 2001	1,426,051.25		
Adjustment for Accrual	<u>(274,013.76)</u>		
 Total Bond Interest Payments		15,785,120	14,674,200
 <u>(1108.4830) PAYING AGENT FEES</u>		12,000	26,000
 Total Debt Service		32,227,120.00	30,280,200.00

EXHIBIT K

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
ENTERPRISE FUND**

Description of the Project

The Central Regional Wastewater System (CRWS) consists of a treatment plant and appurtenances rated at 162 Million Gallons Per Day (MGD), interceptor pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for irrigation and level control under the first major urban reuse program in Texas.

CRWS provides wastewater transportation and treatment for the Cities of Irving, Grand Prairie, Farmers Branch, Dallas, Carrollton, Coppell, Cedar Hill, Euless, Bedford, Fort Worth, Arlington, Colleyville, Dallas/Fort Worth International Airport, Grapevine, Mansfield, Hurst, North Richland Hills, Duncanville, Southlake, Keller, and Addison. The estimated average daily volume of wastewater predicted to be received from the contributing cities in Fiscal Year 2002 is 150.150 Millions of Gallons Per Day (MGD).

City	2003		2002	
	Percent Contribution	Amount MGD	Percent Contribution	Amount MGD
Irving	19.148%	28.750	20.616%	30.000
Grand Prairie	11.116%	16.690	11.138%	16.208
Arlington	30.276%	45.460	28.230%	41.080
Farmers Branch	4.462%	6.700	4.604%	6.700
Dallas	5.661%	8.500	5.154%	7.500
Euless	2.847%	4.275	2.817%	4.100
Carrollton	7.992%	12.000	8.315%	12.100
D/FW Airport	1.539%	2.310	1.587%	2.310
Bedford	3.130%	4.700	3.206%	4.666
Coppell	2.597%	3.900	2.543%	3.700
Colleyville	1.683%	2.527	1.745%	2.539
Fort Worth	0.911%	1.368	0.871%	1.267
Grapevine	1.279%	1.920	1.635%	2.380
Mansfield	2.165%	3.250	2.233%	3.250
Hurst	0.135%	0.202	0.126%	0.183
North Richland Hills	0.468%	0.703	0.388%	0.565
Duncanville	0.133%	0.200	0.137%	0.200
Keller	1.608%	2.415	1.659%	2.415
Southlake	1.132%	1.700	1.164%	1.694
Cedar Hill	0.200%	0.300	0.168%	0.245
Addison	1.518%	2.280	1.664%	2.420
Totals	100.000%	150.150	100.000%	145.522

Located on 495 acres adjacent to the West Fork of the Trinity River, the CRWS Facility initiated operation in December 1959, initially serving four cities. The original plant consisted of a trickling filter process with a capacity of 30 MGD. The capacity was increased to 60 MGD in 1976 by the addition of mechanical dewatering equipment and an activated sludge process.

In 1980, a two phase expansion program was completed that increased the capacity to 100 MGD and provided tertiary treatment. Growth in the service area resulted in the expansion of the CRWS facility to a capacity of 135 MGD, with construction initiated in 1988 and completed in early 1994. Effluent discharged from CRWS consistently meets or exceeds the requirements specified in the TPDES permit issued by the Texas Natural Resource Conservation Commission (TNRCC). TNRCC approved an uprating of the discharge permit to an effluent level of 162 MGD with the completion of the solids dewatering project on April 1, 2001.

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
ENTERPRISE FUND**

Work Program

To maintain and operate the Central Plant on a 24-hour a day, 7-day a week basis requires a staff of three (3) department managers reporting to the Project Manager. In addition to the management staff, including purchasing and the inventory department, staffing is as follows:

System Operation and Maintenance	97
Administration Services	8
Technical Services	43
Northern Region Purchasing	7
Pretreatment	<u>8</u>
	163

The responsibility for selecting process parameters, actual treatment of wastewater, process and non-process equipment maintenance, maintenance, repair of electrical and electronic equipment, lift station maintenance sludge disposal and computer monitoring of plant processes lies with the Manager, System Operations, and the Operation and Maintenance Department.

The Manager, Administrative Services and staff provide support at the Central System in the areas of human resource administration, benefits, training, clerical, accounts payable, payroll, and capital asset control and data processing.

The Manager, Technical Services and staff provide analytical data for process control, influent monitoring and effluent quality reports. The Laboratory and Pretreatment Programs provide analytical and technical assistance to cities, state, and/or federal agencies and other TRA Projects on a contract basis. Engineering Services provide inspection and surveillance of the collection system and monitoring of flows from the Cities into the system.

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
TOTAL FUND SUMMARY

FUNDS AVAILABLE

Projected December 1, 2002 \$ 17,295,360

ESTIMATED SOURCES OF FUNDS

Contract Revenue	\$	54,613,900	
Inter-Fund Services & Charges		414,340	
Operating Overhead		417,170	
Professional Fees		450,000	
Interest Income		1,544,900	
Miscellaneous Income		979,050	58,419,360

TOTAL FUNDS AVAILABLE \$ 75,714,720

ESTIMATED APPLICATION OF FUNDS

Appropriation Expenditures:

Personal Services	\$	8,399,720	
Supplies		3,556,400	
Other Services and Charges		12,785,680	
Capital Outlays		1,108,790	
Debt Service and Miscellaneous		32,227,120	58,077,710

TOTAL FUNDS APPLIED \$ 58,077,710

FUNDS AVAILABLE

Projected November 30, 2003 \$ 17,637,010

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
REVENUE SUMMARY**

<u>DESCRIPTION OF REVENUE</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>	<u>2001 ACTUAL</u>
<u>CONTRACT AND OPERATING OVERHEAD REVENUE</u>			
(3010) Contract Revenue - Irving	\$ 10,457,470	\$ 10,394,930	\$ 10,221,781
(3020) Contract Revenue - Grand Prairie	6,070,880	5,615,960	5,639,307
(3030) Contract Revenue - Arlington	16,534,910	14,234,030	15,623,824
(3040) Contract Revenue - Farmers Branch	2,436,870	2,321,410	2,073,978
(3050) Contract Revenue - Dallas	3,091,690	2,598,730	2,877,391
(3060) Contract Revenue - Euless	1,554,860	1,420,380	1,343,646
(3070) Contract Revenue - Carrollton	4,364,740	4,192,560	4,258,815
(3080) Contract Revenue - D/FW Airport	840,510	800,190	834,736
(3090) Contract Revenue - Bedford	1,709,420	1,616,520	1,680,841
(3100) Contract Revenue - Coppell	1,418,320	1,282,220	1,374,954
(3110) Contract Revenue - Colleyville	919,150	879,860	870,684
(3120) Contract Revenue - Fort Worth	497,530	439,170	914,070
(3130) Contract Revenue - Grapevine	698,510	824,390	536,843
(3140) Contract Revenue - Mansfield	1,182,390	1,125,920	1,157,826
(3150) Contract Revenue - Hurst	73,730	63,530	71,853
(3160) Contract Revenue - North Richland Hills	255,590	195,640	220,177
(3170) Contract Revenue - Duncanville	72,640	69,080	58,029
(3180) Contract Revenue - Keller	878,190	836,500	738,966
(3190) Contract Revenue - Southlake	618,230	586,910	526,619
(3200) Contract Revenue - Cedar Hill	109,230	84,710	103,218
(3210) Contract Revenue - Addison	829,040	839,020	825,597
(3380) Inter-Fund Services & Charges	414,340	-	-
(3390) Operating Overhead - Other Projects	417,170	693,190	656,740
TOTAL CONTRACT AND OPERATING OVERHEAD REVENUE	<u>55,445,410</u>	<u>51,114,850</u>	<u>52,609,895</u>
<u>PROFESSIONAL FEES</u>			
(3980) Professional Fees	450,000	450,000	438,988
TOTAL PROFESSIONAL FEES	<u>450,000</u>	<u>450,000</u>	<u>438,988</u>
<u>INTEREST INCOME</u>			
(3810) Interest Income - Interest & Sinking Fund	229,600	489,580	459,263
(3820) Interest Income - Reserve Fund	1,147,800	1,416,420	1,523,753
(3840) Interest Income - Revenue Fund	123,500	336,320	310,544
(3870) Interest Income - Emergency	44,000	93,030	130,162
TOTAL INTEREST INCOME	<u>\$ 1,544,900</u>	<u>\$ 2,335,350</u>	<u>\$ 2,423,722</u>

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
REVENUE SUMMARY

<u>DESCRIPTION OF REVENUE</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>	<u>2001 ACTUAL</u>
<u>MISCELLANEOUS INCOME</u>			
(3400) Overstrength Surcharge	\$ 600,000	\$ 600,000	\$ 625,408
(3410) Northeast Lakeview Lift Station	-	14,650	19,433
(3430) Pretreatment Revenue	22,000	22,000	61,844
(3440) Commodity Charge	51,810	51,810	140,017
(3480) Quantity Surcharge	36,800	36,800	28,089
(3990) Miscellaneous Income	<u>268,440</u>	<u>10,000</u>	<u>49,693</u>
TOTAL MISCELLANEOUS INCOME	<u>979,050</u>	<u>735,260</u>	<u>924,484</u>
GRAND TOTAL	<u>\$ 58,419,360</u>	<u>\$ 54,635,460</u>	<u>\$ 56,397,089</u>

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
EXPENDITURE SUMMARY**

<u>DESCRIPTION OF EXPENDITURE</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>	<u>2001 ACTUAL</u>
<u>PERSONAL SERVICES</u>			
(4000) Salaries - Regular	\$ 6,428,520	\$ 6,251,780	\$ 5,816,588
(4010) Salaries - Part-Time	37,370	-	41,925
(4020) Payroll Taxes - Fica	494,640	478,260	433,322
(4030) Emp. Ben - Health/Life Ins.	655,250	411,770	406,060
(4040) Employee Benefit - Pension	740,660	715,800	573,851
(4060) Unemployment Compensation	20,000	20,000	2,737
(4070) Emp. Recognition Program	16,280	15,260	13,880
(4080) Employee Benefit - Education	7,000	9,000	3,135
TOTAL PERSONAL SERVICES	<u>8,399,720</u>	<u>7,901,870</u>	<u>7,291,498</u>
<u>SUPPLIES</u>			
(4100) Office Supplies	50,200	51,200	44,008
(4110) Dues and Subscriptions	55,850	54,860	49,771
(4120) Fees Other Than Dues and Subscriptions	80,910	86,910	67,785
(4130) Maintenance and Operating Supplies	166,930	146,590	168,709
(4140) Lab Supplies	280,350	273,350	299,166
(4150) Process Chemicals and Supplies	2,524,000	2,421,900	2,109,998
(4160) Fuel, Oil, & Lubricants	103,630	104,440	101,313
(4170) Computer Software, Lic. & Instr. Supplies	294,530	37,950	51,588
TOTAL SUPPLIES	<u>3,556,400</u>	<u>3,177,200</u>	<u>2,892,338</u>
<u>OTHER SERVICES AND CHARGES</u>			
(4200) Auditing	37,500	36,000	35,500
(4210) Engineering	223,090	160,000	233,952
(4220) Legal	20,000	20,000	8,317
(4230) Outside Services	644,590	335,620	607,902
(4240) Other Professional Services	197,700	175,650	182,357
(4300) Telephone and Telemetry	91,060	106,570	78,489
(4310) Postage	8,520	8,220	7,913
(4320) Printing and Binding	11,010	12,730	9,255
(4330) Insurance Payments	287,430	179,420	130,630
(4360) Travel	19,300	16,500	17,793
(4370) Laundry, Uniform, & Ind. Equip	49,070	44,350	53,010
(4380) Training	70,600	111,940	39,225
(4400) Utilities	120,000	105,000	118,217
(4420) Power	4,553,480	4,832,800	4,856,570
(4430) R & M - Collection System	369,750	245,000	509,349
(4440) R & M - Equipment	223,200	218,300	213,768
(4450) R & M - Plant & Buildings	729,600	777,350	586,380
(4460) R & M - Vehicles	43,500	40,400	50,630
(4480) R & M - Electrical	587,000	510,150	415,002
(4490) Off-site Biosolid Land Application	2,665,190	2,534,140	2,343,012
(4510) Rent - Machinery & Equip.	79,520	88,810	47,213
(4660) Administrative Overhead	1,754,570	1,545,960	1,455,730
TOTAL OTHER SERVICES AND CHARGES	<u>12,785,680</u>	<u>12,104,910</u>	<u>12,000,214</u>

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
EXPENDITURE SUMMARY

<u>DESCRIPTION OF EXPENDITURE</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>	<u>2001 ACTUAL</u>
<u>CAPITAL OUTLAYS</u>			
(4760) Machinery & Equipment	\$ 1,108,790	\$ 887,950	\$ 312,867
TOTAL CAPITAL OUTLAYS	<u>1,108,790</u>	<u>887,950</u>	<u>312,867</u>
<u>DEBT SERVICE AND MISCELLANEOUS*</u>			
(4800) Bond Principal Payments	16,430,000	15,580,000	18,995,000
(4810) Interest on Long-Term Debt	15,785,120	14,674,200	14,594,062
(4830) Paying Agent Fees	<u>12,000</u>	<u>26,000</u>	<u>1,482</u>
TOTAL DEBT SERVICE AND MISCELLANEOUS	<u>32,227,120</u>	<u>30,280,200</u>	<u>33,590,544</u>
GRAND TOTAL	<u>\$ 58,077,710</u>	<u>\$ 54,352,130</u>	<u>\$ 56,087,461</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 REVENUE WORKSHEET

<u>CONTRACT REVENUE</u>	<u>PROPOSED 2003 BUDGET</u>
Operation & Maintenance	
Total Expenditures	\$ 25,862,590.00
Less Other Revenue Sources:	
Inter-Fund Services & Charges	(414,340.00)
Operating Overhead	(417,170.00)
Professional Fees	(450,000.00)
Pretreatment Revenue	(22,000.00)
Commodity Charge	(51,810.00)
Miscellaneous Income	(268,440.00)
Overstrength Surcharge	(600,000.00)
Zone B & Quantity Surcharge	<u>(36,800.00)</u>
Total Other Revenue Sources	<u>(2,260,560.00)</u>
Net Operation and Maintenance to be to Billed Monthly	23,602,030.00
Debt Service	
Principal on Bonds:	
Due 8/01/2003: 16,430,000.00 x 8/12	10,953,333.33
Due 8/01/2004: 17,455,000.00 x 4/12	5,818,333.33
Interest on Bonds:	
Due 2/01/2003: 8,029,566.88 x 2/6	2,676,522.29
Due 8/01/2003: 8,029,566.88 x 6/6	8,029,566.88
Due 2/01/2004: 7,618,553.75 x 4/6	5,079,035.83
Rounding	1.24
Less: Interest Income	<u>(1,544,900.00)</u>
Net Debt Service to Billed Monthly	<u>31,011,892.91</u>
TOTAL CONTRACT REVENUE	<u>\$ 54,613,922.91</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3010) CONTRACT REVENUE - IRVING</u>			
(1106.3010) Operation & Maintenance			
\$23,602,030 x 19.148%	\$ 4,519,316.70		
(1108.3010) Debt Service			
\$31,011,893 x 19.148%	5,938,157.26		
Rounding	<u>(3.96)</u>		
Total Annual Requirement		\$ 10,457,470	\$ 10,394,930
<u>(3020) CONTRACT REVENUE - GRAND PRAIRIE</u>			
(1106.3020) Operation & Maintenance			
\$23,602,030 x 11.116%	2,623,601.65		
(1108.3020) Debt Service			
\$31,011,893 x 11.116%	3,447,282.02		
Rounding	<u>(3.67)</u>		
Total Annual Requirement		6,070,880	5,615,960
<u>(3030) CONTRACT REVENUE - ARLINGTON</u>			
(1106.3030) Operation & Maintenance			
\$23,602,030 x 30.276%	7,145,750.60		
(1108.3030) Debt Service			
\$31,011,893 x 30.276%	9,389,160.70		
Rounding	<u>(1.30)</u>		
Total Annual Requirement		16,534,910	14,234,030
<u>(3040) CONTRACT REVENUE - FARMERS BRANCH</u>			
(1106.3040) Operation & Maintenance			
\$23,602,030 x 4.462%	1,053,122.58		
(1108.3040) Debt Service			
\$31,011,893 x 4.462%	1,383,750.66		
Rounding	<u>(3.23)</u>		
Total Annual Requirement		2,436,870	2,321,410
<u>(3050) CONTRACT REVENUE - DALLAS</u>			
(1106.3050) Operation & Maintenance			
\$23,602,030 x 5.661%	1,336,110.92		
(1108.3050) Debt Service			
\$31,011,893 x 5.661%	1,755,583.26		
Rounding	<u>(4.18)</u>		
Total Annual Requirement		3,091,690	2,598,730

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3060) CONTRACT REVENUE - EULESS</u>			
(1106.3060) Operation & Maintenance			
\$23,602,030 x 2.847%	\$ 671,949.79		
(1108.3060) Debt Service			
\$31,011,893 x 2.847%	882,908.59		
Rounding	<u>1.61</u>		
Total Annual Requirement		\$ 1,554,860	\$ 1,420,380
<u>(3070) CONTRACT REVENUE - CARROLLTON</u>			
(1106.3070) Operation & Maintenance			
\$23,602,030 x 7.992%	1,886,274.24		
(1108.3070) Debt Service			
\$31,011,893 x 7.992%	2,478,470.48		
Rounding	<u>(4.72)</u>		
Total Annual Requirement		4,364,740	4,192,560
<u>(3080) CONTRACT REVENUE - D/FW AIRPORT</u>			
(1106.3080) Operation & Maintenance			
\$23,602,030 x 1.539%	363,235.24		
(1108.3080) Debt Service			
\$31,011,893 x 1.539%	477,273.03		
Rounding	<u>1.73</u>		
Total Annual Requirement		840,510	800,190
<u>(3090) CONTRACT REVENUE - BEDFORD</u>			
(1106.3090) Operation & Maintenance			
\$23,602,030 x 3.130%	738,743.54		
(1108.3090) Debt Service			
\$31,011,893 x 3.130%	970,672.25		
Rounding	<u>4.21</u>		
Total Annual Requirement		1,709,420	1,616,520
<u>(3100) CONTRACT REVENUE - COPPELL</u>			
(1106.3100) Operation & Maintenance			
\$23,602,030 x 2.597%	612,944.72		
(1108.3100) Debt Service			
\$31,011,893 x 2.597%	805,378.86		
Rounding	<u>(3.58)</u>		
Total Annual Requirement		1,418,320	1,282,220

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3110) CONTRACT REVENUE - COLLEYVILLE</u>			
(1106.3110) Operation & Maintenance			
\$23,602,030 x 1.683%	\$ 397,222.16		
(1108.3110) Debt Service			
\$31,011,893 x 1.683%	521,930.16		
Rounding	<u>(2.32)</u>		
Total Annual Requirement		\$ 919,150	\$ 879,860
<u>(3120) CONTRACT REVENUE - FORT WORTH</u>			
(1106.3120) Operation & Maintenance			
\$23,602,030 x 0.911%	215,014.49		
(1108.3120) Debt Service			
\$31,011,893 x 0.911%	282,518.34		
Rounding	<u>(2.84)</u>		
Total Annual Requirement		497,530	439,170
<u>(3130) CONTRACT REVENUE - GRAPEVINE</u>			
(1106.3130) Operation & Maintenance			
\$23,602,030 x 1.279%	301,869.96		
(1108.3130) Debt Service			
\$31,011,893 x 1.279%	396,642.11		
Rounding	<u>(2.07)</u>		
Total Annual Requirement		698,510	824,390
<u>(3140) CONTRACT REVENUE - MANSFIELD</u>			
(1106.3140) Operation & Maintenance			
\$23,602,030 x 2.165%	510,983.95		
(1108.3140) Debt Service			
\$31,011,893 x 2.165%	671,407.48		
Rounding	<u>(1.43)</u>		
Total Annual Requirement		1,182,390	1,125,920
<u>(3150) CONTRACT REVENUE - HURST</u>			
(1106.3150) Operation & Maintenance			
\$23,602,030 x 0.135%	31,862.74		
(1108.3150) Debt Service			
\$31,011,893 x 0.135%	41,866.06		
Rounding	<u>1.20</u>		
Total Annual Requirement		73,730	63,530

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3160) CONTRACT REVENUE - NORTH RICHLAND HILLS</u>			
(1106.3160) Operation & Maintenance			
\$23,602,030 x 0.468%	\$ 110,457.50		
(1108.3160) Debt Service			
\$31,011,893 x 0.468%	145,135.66		
Rounding	(3.16)		
Total Annual Requirement		\$ 255,590	\$ 195,640
<u>(3170) CONTRACT REVENUE - DUNCANVILLE</u>			
(1106.3170) Operation & Maintenance			
\$23,602,030 x 0.133%	31,390.70		
(1108.3170) Debt Service			
\$31,011,893 x 0.133%	41,245.82		
Rounding	3.48		
Total Annual Requirement		72,640	69,080
<u>(3180) CONTRACT REVENUE - KELLER</u>			
(1106.3180) Operation & Maintenance			
\$23,602,030 x 1.608%	379,520.64		
(1108.3180) Debt Service			
\$31,011,893 x 1.608%	498,671.24		
Rounding	(1.88)		
Total Annual Requirement		878,190	836,500
<u>(3190) CONTRACT REVENUE - SOUTHLAKE</u>			
(1106.3190) Operation & Maintenance			
\$23,602,030 x 1.132%	267,174.98		
(1108.3190) Debt Service			
\$31,011,893 x 1.132%	351,054.63		
Rounding	0.39		
Total Annual Requirement		618,230	586,910
<u>(3200) CONTRACT REVENUE - CEDAR HILL</u>			
(1106.3200) Operation & Maintenance			
\$23,602,030 x 0.200%	47,204.06		
(1108.3200) Debt Service			
\$31,011,893 x 0.200%	62,023.79		
Rounding	2.15		
Total Annual Requirement		109,230	84,710

JF: PLS. Attend this.



M

Northern Region Office

July 31, 2002

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

MEETING NOTICE

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
TUESDAY, AUGUST 13, 2002, 10:30 A.M.**

A meeting of the Central Regional Wastewater System Advisory Committee has been scheduled for 10:30 a.m., Tuesday, August 13, 2002 at the **Central Regional Wastewater Treatment Plant in Grand Prairie, at 6500 West Singleton Blvd., Grand Prairie, Texas.** Immediately following the meeting, you are invited to join other members for lunch served in the break room. Please RSVP to Cheryl Abbott at 817-493-5100 or abbottc@trinityra.org prior to Friday, August 9th.

The FY 2003 Operating and Maintenance Budget for the Central Regional Wastewater System will be the primary purpose of this meeting, but other topics of importance will also be discussed. An agenda and minutes of the September 11, 2001 meeting are attached for your review.

If you have questions prior to the meeting, please contact this office at 817-493-5100.

Warren N. Brewer/cea

WARREN N. BREWER
Regional Manager
Northern Region

WNB/cea

Attachments

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations
Bill Tatum, Manager, CRWS

Bill Cyrus - Metering



1. IRVING AGREES WITH RESPECT TO ITS DEVELOPED WATER:
 - a. Sell at a "reduced price" its rights to reuse on developed water to TRA.
 1. This gives Irving a user for its reuse application.
 2. It gives TRA a much stronger position on its reuse application.
 - b. Irving would additionally receive its proportionate share of benefit of TRA reuse agreement that included its developed water.
 - c. Irving, on reasonable notice, could make an independent deal for reuse of its developed water.
 - d. Irving would not oppose, but support TRA's reuse application.
2. TRA AGREES WITH RESPECT TO IRVING'S DEVELOPED WATER:
 - a. Amend contract to recognize Irving's reuse right and pay a "reduced price" for use of water.
 1. Assuming TRA's reuse permit is granted, this would enhance Lake Livingston's firm yield by the amount of Irving's discharge of developed water, less transmission losses, etc.
 2. This will enhance TRA's reuse application significantly.
 - b. Further amendment of contract would be possible to assure continued availability of Irving's reuse water (i.e., Irving gives up right to make an independent use of the water) if TRA develops long term purchaser.
 - e. TRA's would not oppose, but support Irving's reuse application.



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

AGENDA
 CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
 6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
 TUESDAY, AUGUST 13, 2002, 10:30 A.M.

I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Elzie Odom	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Bill Lindley	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Terrace Stewart	_____
D/FW Airport	Mr. Jim Crites	_____
Duncanville	Mr. Kent Cagle	_____
Eules	Councilmember Glenn Porterfield	_____
Farmers Branch	Councilmember Paul Walden	_____
Fort Worth	Mr. Dale Fisseler	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Councilmember Lewis Patrick	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Blake Evans	_____
North Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Mr. Danny F. Vance	_____
	Director Wanda Stovall	_____
	Director Hector Escamilla, Jr.	_____

III. Introduction of Guests, Consultants and Authority Staff

- IV. **Approval of Minutes of the September 11, 2001 Meeting**

- V. **Status Reports**
 - A. Operations
 - B. Financial
 - C. Regulatory
 - D. Capital Improvement Planning
 - (1) Planning, Design, Construction
 - (2) Series 2001 SRF Bonds

- VI. **Discussion: Presentation of Proposed FY 2003 Operating and Maintenance Budget**
 - A. Budget Philosophy and Strategies
 - B. System Flows and Allocations
 - C. Budget Objectives
 - D. Detailed Budget Review

- VII. **Discussion: City of Irving's Request for a Contract Modification Related to Water Reuse Rights**

- VIII. **Other Business**

- IX. **Adjourn to Lunch**





TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

MINUTES

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
 6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
 TUESDAY, SEPTEMBER 11, 2001, 11 A.M.**

I. **Call to Order** – Chairman Gravley called the meeting to order at 11:10 a.m. and called roll.

II. **Roll Call**

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	Absent
Arlington	Ms. Fiona Allen f/Mayor Elzie Odom	Present
Bedford	Justin Brown f/Councilmember Jim Griffin	Present
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Mr. Jim Sparks f/Mr. Greg Porter	Present
Colleyville	Mr. Bill Lindley	Absent
Coppell	Mr. Ken Griffin	Absent
Dallas	Mr. Terrace Stewart	Absent
D/FW Airport	Mr. Thomas M. Dunning	Absent
Duncanville	Mr. Bill Willborn f/Mr. Kent Cagle	Present
Eules	Councilmember Glenn Porterfield	Present
Farmers Branch	Mr. Mark Velton f/Councilmember Paul Walden	Present
Fort Worth	Mr. Jay Chapa f/Mr. Dale Fisseler	Present
Grand Prairie	Mr. Ron McCuller f/Councilmember Richard Fregoe	Present
Grapevine	Mr. Frank White f/Mr. Jerry Hodge	Present
Hurst	Mr. Ron Haynes	Absent
Irving	Councilmember James Dickens	Present
Keller	Mr. Ed Ilschner	Absent
Mansfield	Mr. Bud Ervin f/Councilmember Blake Evans	Present
N. Richland Hills	Mr. Mike Curtis	Absent
Southlake	Mr. Pedram Farahnak	Absent
Trinity River Authority	Mr. Danny F. Vance	Present
	Director Wanda Stovall	Present
	Director Hector Escamilla, Jr.	Absent

III. **Introduction of Guests, Consultants and Authority Staff**

Warren Brewer introduced the following TRA staff: Warren Brewer, Patricia Cleveland, Bill Smith, Cheryl Abbott, Alison Mackey, Bill Tatum, Bill Cyrus, Mike Young, and Shelley Fialho. Other city personnel present were Stephen Jenkins with the City of Carrollton, Mr. Phil Grice with the City of Fort Worth, and Mr. Jim Siddall with the City of Irving. Consultants present were Ray Longoria with Freese and Nichols and Layne Parsons with Black and Veatch.

IV. **Approval of Minutes of the August 10, 2001 Meeting**

Chairman Gravley asked if there were any changes to be made to the minutes of the August 10, 2001 meeting. There being none, Fiona Allen made a motion to accept the minutes as presented, Jay Chapa seconded the motion and a unanimous vote followed.

V. **Status Reports**

- A. Operations – Bill Tatum briefly outlined System operations since the August meeting. He said that the System was producing quality effluent by reducing the pollutants by approximately 95% in the incoming water to the plant.
- B. Financial – Patricia Cleveland reminded attendees that during the midyear reallocations the budget was amended by \$1.6 million due to increases in power cost and impacts of the January through March high rainfalls. She continued that we were tracking close to the amended budget.
- C. Regulatory – Patricia Cleveland stated that in August we had expected the TNRCC to approve the TPDES modified pretreatment program, but it had not been received.
- D. Capital Improvement Planning – Warren Brewer said that in the August meeting a detailed summary on improvement planning had been given and the information was still current. He offered a copy of the itemized listing to anyone who requested it.

VI. **Action: Proposed FY 2002 Operating and Maintenance Budget**

- A. Review of Budget Philosophy, Strategies, Objectives, and Contents
- B. Committee Action on Proposed FY 2002 Budget

Patricia Cleveland gave a brief review of anticipated FY 2002 Operating and Maintenance Budget. Warren Brewer reported that we had provided detailed budget information in the August meeting and then held a budget workshop, and that he felt that all questions had been responded to. Bill Willborn asked if there were anything new to report on odor control. Bill Tatum gave a summary of the improvements that had been made, the Phase 5 current odor control projects, and said that Phase 6 had identified hot spots and was addressing those issues. Warren Brewer said that our objective was to balance results and costs and that we had spent approximately \$20 million in odor control.

Chairman Gravley asked if there were any further questions concerning the FY 2002 Budget. There being none, Ron McCuller made a motion to request that the Board of Directors approve the presented FY 2002 Operating and Maintenance Budget in its October meeting. James Dickens seconded the motion and a unanimous vote followed. The City of Dallas was unable to attend the meeting, but had notified the Authority, via e-mail, that the City agreed with the proposed FY 2002 Budget.

VII. **Other Business**

Bud Ervin thanked the TRA staff for their help during the flooding that Mansfield had experienced.

VII. **Adjourn to Lunch**

There being no further business, Chairman Gravley adjourned the meeting at 11:45 a.m. and invited attendees to remain for lunch.

CENTRAL REGIONAL WASTEWATER SYSTEM **HANDOUT AGENDA ITEM V-A**

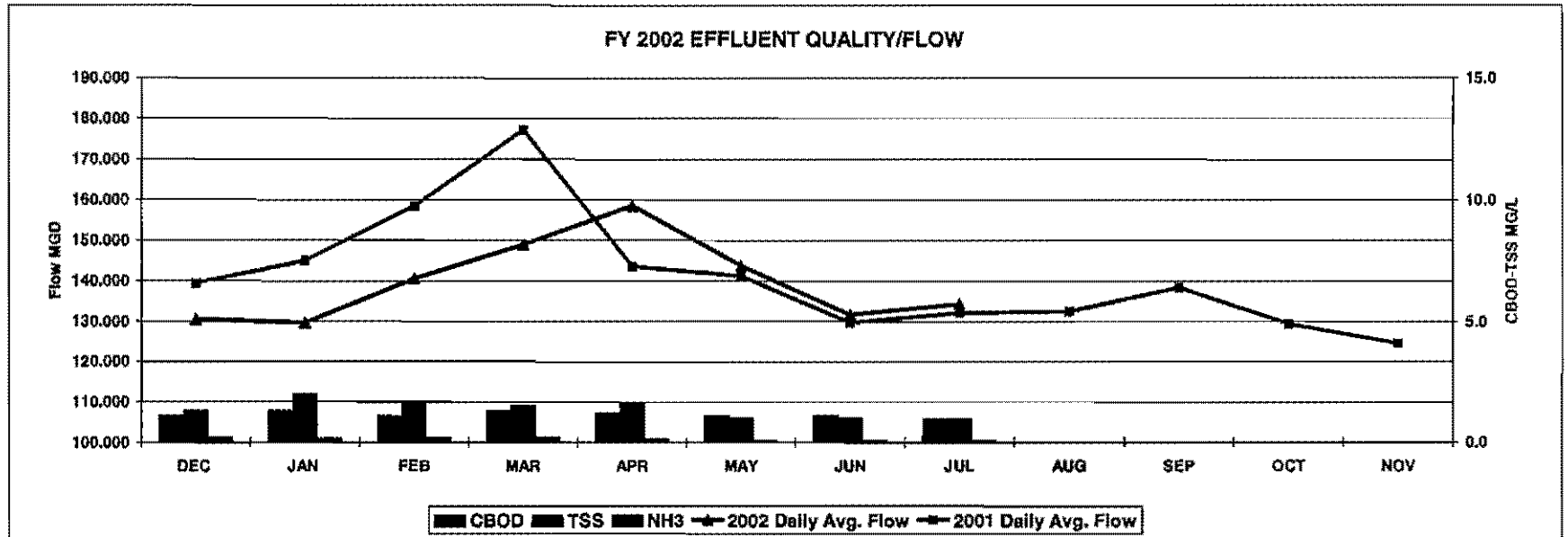
FY 2002

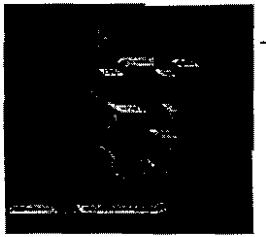
PERMITS NO: 10303-001 (TX0022802)

	FLOW ANNL.AVG	FLOW DLY.AVG.	FLOW DLY.MAX.	FLOW 2-HR PK	FLOW 2-HR PK	RAINFALL TOTAL	CBOD DLY.AVG.	CBOD DLY.MAX.	CBOD DLY.AVG.	TSS DLY.AVG.	TSS DLY.MAX.	TSS DLY.AVG.	NH3 DLY.AVG.	NH3 DLY.MAX.	NH3 DLY.AVG.	DO MIN.	pH MAX.	pH MIN.	CL2 MIN.	CL2 OUTFALL	COLLECT. SYSTEM	
PERMIT LIMIT:	162 MGD	REPORT MGD	REPORT MGD	281250 GPM	MGD	INCHES	7 MG/L	17 MG/L	9458 LBS/DAY	15 MG/L	40 MG/L	20266 LBS/DAY	2/4 MG/L	7 MG/L	2702/5404 LBS/DAY	6 MG/L	8 S.U.	6 S.U.	1 MG/L	.099 MG/L	NO. OF OUTFLOWS	
DEC	140.159	130.540	208.060	185534	238.389	3.420	1.1	2.0	1181.4	1.3	2.0	1470.1	0.227	1.231	289.2	8.2	7.3	6.9	1.04	0.00	2	
JAN	138.851	129.630	218.630	175093	252.134	4.320	1.3	2.0	1415.5	2.0	3.0	2148.3	0.161	0.855	175.8	8.6	7.2	6.9	1.07	0.00	0	
FEB	137.479	140.601	206.390	167561	241.288	2.27	1.1	2.0	1383.0	1.6	3.0	1901.5	0.186	0.890	231.9	8.8	7.5	6.5	1.02	0.00	3	
MAR	135.083	148.985	265.920	215513	310.339	8.55	1.3	6.0	1791.7	1.5	8.0	2150.8	0.184	0.648	245.3	7.5	7.5	6.6	1.08	0.00	8	
APR	138.312	158.585	261.930	197688	284.824	7.19	1.2	3.0	1804.0	1.8	10.0	2567.9	0.156	0.462	214.1	8.3	7.3	7.0	1.02	0.00	3	
MAY	138.528	143.760	205.510	167732	241.534	7.85	1.1	3.0	1304.8	1.0	1.0	1199.0	0.058	0.318	71.8	7.9	7.4	7.0	1.04	0.00	1	
JUN	138.688	131.660	141.250	113607	163.594	12.00	1.1	4.0	1248.4	1.0	1.0	1096.1	0.054	0.183	70.6	7.2	7.3	7.0	1.15	0.00	0	
JUL	138.932	134.391	160.880	119989	172.784	4.61	1.0	2.0	1180.7	1.0	1.0	1125.4	0.058	0.215	75.5	7.5	7.4	6.9	1.08	0.00	0	
AUG																						
SEP																						
OCT																						
NOV																						
AVG	137.254	139.772	208.325	165327	238.071	6.25	1.2	3.0	1383.7	1.4	3.6	1707.7	0.138	0.585	171.8	8.0	7.4	6.9	1.06	0.00	TOTAL: 15	
MAX	140.159	168.585	265.920	215513	310.339	12.00	1.3	6.0	1791.7	2.0	10.0	2567.9	0.227	1.231	289.2	8.8	7.5	7.0	1.15	0.00		
MIN	135.083	129.630	141.250	113607	163.594	2.27	1.0	2.0	1180.7	1.0	1.0	1096.1	0.058	0.183	70.6	6.0	7.2	6.5	1.02	0.00		
TOTAL	1098.030	1118.172				50.01			11068.5			13661.9			1374.0							

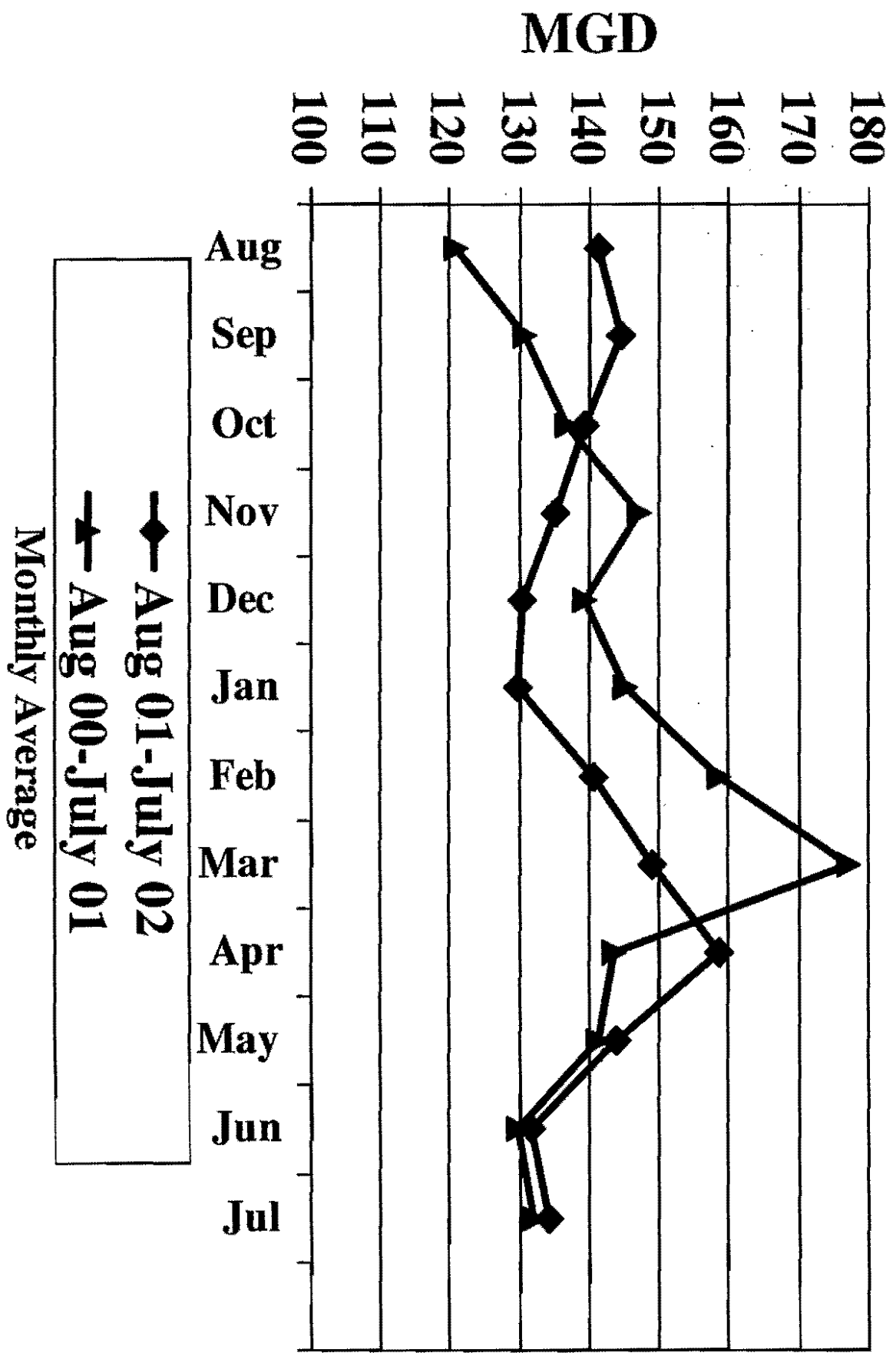
90% FLOW = 145.800 MGD
75% FLOW = 121.500 MGD

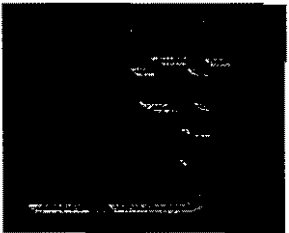
* EXCURSIONS: 0 TNRC
0 EPA



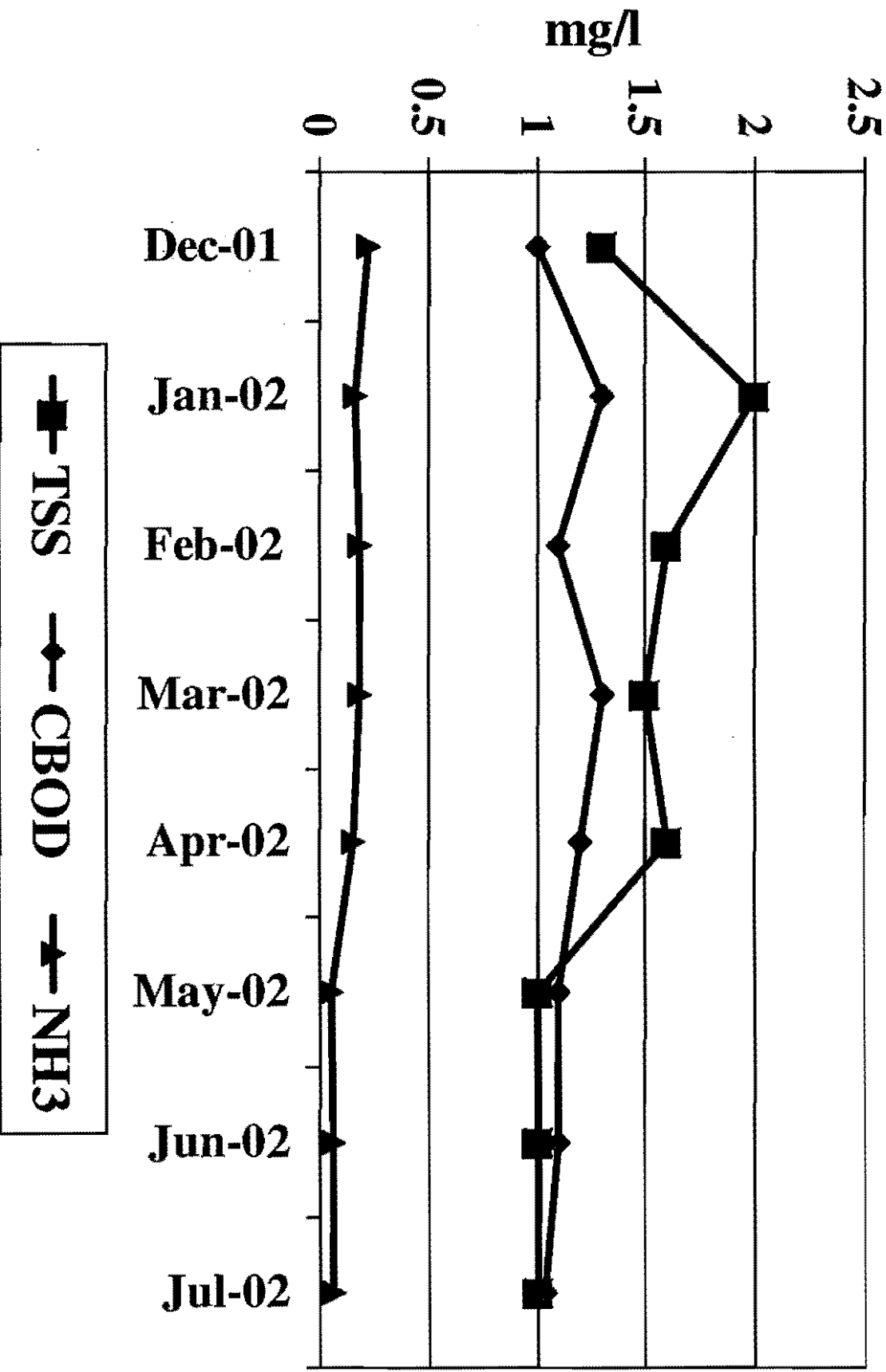


EFFLUENT FLOW





EFFLUENT PROCESS PARAMETERS December 2001 – July 2002



CENTRAL REGIONAL WASTEWATER SYSTEM
 FY 2001 SCHEDULE OF ACTUAL ANNUAL REQUIREMENT ADJUSTED FOR INTERCEPTOR I/I (METHOD 2)

CONTRACTING PARTY	FY 2001 CONTRIBUTION BASED ON ACTUAL FLOW		DISTRIBUTION OF FY 2001 ACTUAL ANNUAL REQUIREMENT BASED ON ACTUAL FLOWS	TRA INTERCEPTOR I/I (MG)	ADJUSTED FY 2001 CONTRIBUTION		ADJUSTED DISTRIBUTION OF FY 2001 ACTUAL ANNUAL REQUIREMENT	FY 2001 ACTUAL ANNUAL REQUIREMENT ADJUSTMENT
	TOTAL FLOW (MG)	PERCENT			TOTAL FLOW (MG)	PERCENT		
ADDISON	830.338	1.539%	\$790,319		830.338	1.553%	\$797,508	\$7,189
ARLINGTON	16,100.830	29.838%	\$15,322,632	0.495	16,100.335	30.111%	\$15,462,825	\$140,193
BEDFORD	1,751.036	3.245%	\$1,668,397		1,751.038	3.275%	\$1,681,802	\$15,408
CARROLLTON	4,439.217	8.227%	\$4,224,790	2.53	4,436.687	8.298%	\$4,261,251	\$36,460
CEDAR HILL	107.737	0.200%	\$102,705		107.737	0.201%	\$103,219	\$514
COLLEYVILLE	912.313	1.690%	\$887,861	6.007	906.308	1.695%	\$870,429	\$2,568
COPPELL	1,432.413	2.654%	\$1,362,902		1,432.413	2.679%	\$1,375,740	\$12,838
DALLAS	3,168.082	5.867%	\$3,012,868	167.824	2,978.238	5.570%	\$2,860,348	(\$152,518)
D/FW AIRPORT	795.167	1.474%	\$756,939		795.167	1.487%	\$763,615	\$6,676
DUNCANVILLE	60.654	0.112%	\$57,515		60.654	0.113%	\$58,029	\$514
EULESS	1,430.274	2.651%	\$1,361,381	30.426	1,399.848	2.618%	\$1,344,415	(\$16,946)
FARMERS BRANCH	2,160.775	4.004%	\$2,056,164	0.15	2,160.825	4.041%	\$2,075,164	\$19,001
FORT WORTH	1,009.115	1.870%	\$960,296	58.762	952.333	1.781%	\$914,592	(\$45,704)
GRAND PRAIRIE	5,929.950	10.989%	\$5,643,163	145.711	5,784.239	10.616%	\$5,555,340	(\$87,813)
GRAPEVINE	596.313	1.105%	\$567,448	36.989	559.324	1.046%	\$537,150	(\$30,298)
HURST	74.667	0.139%	\$71,380		74.667	0.140%	\$71,894	\$514
IRVING	10,460.689	19.387%	\$9,955,757	17.724	10,442.965	19.531%	\$10,029,705	\$73,948
KELLER	770.179	1.427%	\$732,804	0.948	769.231	1.439%	\$738,966	\$6,162
MANSFIELD	1,149.337	2.130%	\$1,093,813		1,149.337	2.150%	\$1,104,084	\$10,271
N RICHLAND HILLS	231.433	0.429%	\$220,303	1.897	229.536	0.429%	\$220,303	\$0
SOUTHLAKE	552.386	1.023%	\$525,339	4.038	548.348	1.025%	\$526,366	\$1,027
	<u>53,960.885</u>	<u>100.000%</u>	<u>\$51,352,746</u>	<u>491.521</u>	<u>53,469.354</u>	<u>100.000%</u>	<u>\$51,352,746</u>	<u>\$0</u>

HANDOUT AGENDA ITEM V-B

Customer City for Receiving Meter	Receiving Meter	Upstream Meters	ADF (mgd)	ADDF (mgd)	I/I (mgd)	TRA Interceptor Idm	City Idm	Total Idm	I/I per Idm	TRA Interceptor I/I (mgd)	TRA Interceptor I/I (mg)	Adjusted TRA Interceptor Idm	Adjusted TRA Interceptor I/I (mgd)	Adjusted TRA Interceptor I/I (mg)
Arlington	9.0W	9.5W, 9.7W, 9.8W	2.166	0.978	1.188	0.75	411.10	411.85	0.0028838	0.002	0.789	0.47	0.001	0.485
Carrollton	15.0E/16.5E	17.0E, 18.0E	12.162	12.073	0.089	537.79	4480.78	5018.57	0.0000178	0.010	3.491	369.70	0.007	2.530
Colleyville	11.9B	12.7B, 13.5B, 12.1B, 12.3B	0.849	0.776	0.073	136.58	290.53	427.11	0.0001703	0.023	8.490	96.63	0.016	6.007
Dallas	3.0M	4.5M, 5.1M, 5.3M	4.120	2.489	1.631	608.02	1267.61	1875.63	0.0008697	0.529	193.008	591.69	0.515	187.824
Euless	11.8W	11.9W, 10.5W	1.072	0.869	0.203	31.32	305.30	336.62	0.0006030	0.019	6.894	24.27	0.015	5.342
Euless	12.0B	12.6B, 13.0B, 12.9B, 13.1B	0.467	0.362	0.125	182.52	277.21	459.73	0.0002717	0.050	18.099	150.87	0.041	14.960
Euless	13.0W	15.0W, 15.5W, 16.0W	0.568	0.469	0.098	83.90	219.46	303.36	0.0003222	0.027	9.868	53.36	0.017	6.276
Euless	16.5W	17.0W	0.132	0.085	0.048	8.08	111.98	120.06	0.0003957	0.003	1.167	6.39	0.003	0.923
Euless	18.0W	18.1W, 18.6W, 19.0W, 19.1W	0.597	0.547	0.050	49.38	211.38	260.76	0.0001922	0.009	3.464	41.70	0.008	2.925
Farmers Branch	13.0E	13.1E, 13.2E, 13.3E	4.220	3.380	0.840	1.38	1346.80	1346.18	0.0006229	0.001	0.314	0.56	0.000	0.150
Fort Worth	10.0W	11.6W, 11.8W	0.587	0.222	0.365	62.43	82.46	144.89	0.0025181	0.157	57.380	61.78	0.156	55.782
Grand Prairie	5.0J	7.0J, 8.0J	4.994	4.014	0.980	565.77	1648.51	2154.28	0.0004546	0.230	83.987	200.43	0.091	33.275
Grand Prairie	5.0W	6.0W	0.550	0.394	0.156	71.15	195.66	266.81	0.0005856	0.042	15.209	70.52	0.041	15.074
Grand Prairie	5.1M	7.0M, 9.0M, 9.6M, 10.0M	4.662	4.042	0.620	568.71	1775.88	2344.59	0.0002644	0.150	54.882	490.79	0.130	47.362
Grand Prairie	7.0W	8.0W	1.566	1.102	0.464	182.48	220.24	402.72	0.0011631	0.210	76.803	118.80	0.137	50.001
Grapevine	11.8B	11.9B, 11.7B	1.296	0.674	0.621	182.62	848.64	1031.26	0.0006025	0.110	40.160	168.20	0.101	36.989
Irving	4.0E	10.0E, 11.0E	9.124	8.170	0.954	187.28	2167.03	2354.31	0.0004052	0.076	27.701	119.83	0.049	17.724
Keller	12.8B	13.3B, 13.6B	1.488	1.360	0.128	161.15	1366.52	1527.67	0.0000836	0.013	4.917	22.21	0.002	0.678
Keller	15.0B	16.0B	0.591	0.518	0.074	3.25	412.74	415.99	0.0001767	0.001	0.210	1.54	0.000	0.099
North Richland Hills	14.0B	14.7B, 15.0B	0.564	0.525	0.039	69.76	353.80	423.56	0.0000924	0.006	2.354	56.21	0.005	1.897
Southlake	13.5B	12.8B	0.688	0.560	0.106	45.43	398.86	445.29	0.0002364	0.011	4.041	46.40	0.011	4.038
TOTAL			52.459	43.608	8.851	3680.75	18382.49	22073.24	0.0129243	1.680	513.207	2712.45	1.346	491.351

The Adjusted TRA Interceptor I/I (MG) for the City of Keller was corrected to 0.777MG after the Fiscal Year 2001 Schedule of Actual Annual Requirement was finalized. However, this correction does not affect the Contribution Based on Actual Flow (%) or the Actual Annual Requirement (\$).

CENTRAL REGIONAL WASTEWATER SYSTEM
CAPACITY FOR UPSTREAM CITY (METHOD 2)

Delta Meter		Upstream Meter(s)						Upstream Interceptor			Downstream Interceptor			
City	Meter ID	City	Meter ID	Node	Lateral	Interceptor	Sta. No.	Diameter	Slope	Capacity (cfs)	Diameter	Slope	Capacity (cfs)	
Irving	4.0E	Dallas	11.0E	MS11.0E	EF002	EF2	29069.00	City			30	0.00010	4.113	
		Dallas	10.0E	MS10.0E	EF002.2	EF2	26900.00	City			12	0.01700	4.658	
Carrollton	15.0/16.5E	Coppell	17.0E	900E	EF009	COP	12228.00		33	0.00050	11.858	33	0.00050	11.858
		Dallas	18.0E	MS18.0E	EF014	EFN	16922.60	City			66	0.00042	69.006	
Farmers Branch	13.0E	Addison	13.1E	1930E	EF012	EF2R	537.43		30	0.00270	21.310	30	0.00220	19.240
		Addison	13.2E	1930E	EF012	EF2R	537.43		18	0.01050	10.760	15	0.00500	4.570
		Addison	13.3E	1930E	EF012	EF2R	537.43	City			18	0.00720	8.910	
Grapevine	11.8B	Colleyville	11.9B	3460B	BC019	BBCXII	7310.00		48	0.00070	37.998	48	0.00080	40.738
		DFW	11.7B	2900B	BC017	BBC	9384.00		12	0.00400	2.250	12	0.00400	2.250
Colleyville	11.9B	Southlake	13.5B	3810B	BC020	BBCXIII	19240.00		36	0.00220	31.369	36	0.00240	32.763
		Southlake	12.1B	3590B	BC019	BBCXII	450.00		18	0.00120	3.649	18	0.00120	3.649
		Southlake	12.3B	4120B	BC016	BBCXIII	85.00	City			15	0.00150	2.509	
		Southlake	12.7B	4090B	BC020.4	BBCXIII	325.00	City			15	0.00460	4.393	
Southlake	13.5B	Keller	12.8B	4060B	BC018	BBCXI	25985.00		36	0.00172	27.712	36	0.00172	27.712
Keller	12.8B	North Richland Hills	13.3B	6280B	BC019.3	BBCXII	3128.06		12	0.00200	1.598	12	0.00200	1.598
		Southlake	13.6B	4920B	BC018.1	BBCXI	90.00		18	0.01700	13.700	21	0.00100	5.010
Euless	12.0B	Grapevine	12.6B	6090B	BC013	GV7R	5325.00		12	0.00202	1.606	12	0.00880	3.351
		Colleyville	12.9B	2395B	BC010	CO17	5436.48	End of Line			12	0.00241	1.754	
		Colleyville	13.0B	1580B	BC007	LBCI	9600.00		42	0.00228	48.170	42	0.00240	49.421
		Bedford	13.1B	2460B	BC012	B13	2266.00	City			12	0.00200	1.598	
North Richland Hills	14.0B	Keller	14.7B	MS14.7B	BC008.1	LBCII	35540.00	City			12	0.00580	2.721	
		Keller	15.0B	2210B	BC008	LBCII	38040.00		21	0.00200	7.105	21	0.00339	9.250
Keller	15.0B	North Richland Hills	16.0B	MS16.0B	BC008.2	LBCII	38837.00	City			8	0.00400	0.766	
Grand Prairie	5.0W	Arlington	6.0W	1470W	WF003	WFXJB	13100.00		27	0.00770	27.249	27	0.00770	27.249
Grand Prairie	7.0W	Arlington	8.0W	1780W	WF004	WFXJC	15746.82		42	0.00148	38.810	42	0.00200	45.115
Arlington	9.0W	Grand Prairie	9.5W	MS9.5W	WF015.1	WFCEO	2441.32	City			6	0.00800	0.503	
		Grand Prairie	9.7W	MS9.7W	WF015.2	WFCEO	2441.32	City			6	0.00480	0.390	
		Grand Prairie	9.8W	MS9.8W	WF015.4	WFCEO	2441.32	City			8	0.00800	1.084	
Fort Worth	10.0W	Euless	11.6W	MS11.6W	WF011.1	BBP	6768.00	City			10	0.00340	1.281	
		Euless	11.8W	2460W	WF011	BBP	12767.50		24	0.00408	14.489	24	0.00410	14.524
Euless	11.8W	Fort Worth	10.5W	2470W	WF011	BBP	13121.76	City			12	0.08160	10.180	
		Bedford	11.9W	2860W	WF013.1	BBRI	20.00	End of Line			12	0.01450	4.302	
Euless	13.0W	Bedford	15.0W	3720W	WF017	TJO	2156.00	City			12	0.00339	2.080	
		Bedford	15.5W	MS15.5W	WF018.1	HCT	1142.32	City			12	0.00300	1.957	
		Bedford	16.0W	3760W	WF018	HCT	2821.65	City			18	0.00340	6.142	
Euless	16.5W	Bedford	17.0W	3330W	WF016	BOT	8783.00		10	0.00850	2.025	10	0.00400	1.389
Euless	18.0W	Bedford	18.1W	3539W	WF014B	EOS	650.00		12	0.00317	2.011	12	0.32000	20.209
		Hurst	18.6W	MS18.6W	WF014A.3	EOSB	3525.65	City			10	0.02000	3.107	
		Bedford	19.0W	3860W	WF019	SBT	7560.00		18	0.01980	14.821	18	0.00340	6.142
		Bedford	19.1W	3480W	WF014A	EOSB	2747.16		36	0.00440	44.362	27	0.00440	20.599
Grand Prairie	5.0J	Arlington	7.0J	1810J	JT008	CWRR	20372.81	City			30	0.00550	30.501	
		Arlington	8.0J	MS8.0J	JT001	CWCS	11390.00		21	0.00100	5.024	21	0.00802	14.228
Dallas	3.0M	Duncanville	4.5M	MS4.5M	MC002.1	MC2	148.00	City			15	0.01350	7.526	
		Grand Prairie	5.1M	380M	MC006	FCCP	18.00		60	0.00150	101.140	60	0.00150	101.140
		Grand Prairie	5.3M	2120M	MC004	EMCR	109.20		30	0.00100	13.006	27	0.00266	16.016
		Cedar Hill	CH	2290M	MC012	NEL	29700.00	FM			24	0.02401	35.148	
Grand Prairie	5.1M	Arlington	7.0M	1080M	MC007	NFFC	16340.00		27	0.00260	15.834	27	0.00260	15.834
		Arlington	9.0M	8030M	MC005	SFFCR	953.50		30	0.00400	26.011	30	0.00400	26.011
		Arlington	9.6M	1950M	MC010	BOWBR	4558.00		36	0.00219	31.297	36	0.00220	31.369
		Mansfield	10.0M	1840M	MC009	WCT	17987.61		27	0.00075	8.504	27	0.00075	8.504

CENTRAL REGIONAL WASTEWATER SYSTEM INTERCEPTOR I/I PRORATION METHODOLOGY

Method 2

Method 2 utilizes the CRWS and city inch-diameter-mile (idm) calculations, and the metered flows from each delta meter to prorate interceptor I/I on a subsystem basis. The interceptor I/I is developed by applying the I/I per idm for the delta meter subsystem to an adjusted interceptor idm. The adjusted interceptor idm is based on the line size required to transport the existing flow capacity provided for the upstream city. The interceptor I/I flows are deducted from the Fiscal Year Contribution and the Annual Requirement is revised based on adjusted contribution percentages.

CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION METHOD 2

The following is a description of Method 2 for prorating CRWS interceptor infiltration/inflow (I/I) to the contracting party flows.

1. Determine the annual volume of I/I for each subsystem defined by a delta meter location. $ADF - ADDF = I/I$ (annually)

The use of delta meter subsystem values assumes that the annual average I/I per idm for the CRWS interceptors and the city collection system served by the interceptor is the same within the delta meter subsystem. The interceptors upstream of non-delta meters are considered to be lines required to serve the metered city, regardless of ownership. The evaluation of I/I annually will provide a trending to account for annual rainfall, I/I reduction in the CRWS and the city collection systems, and any other changes in the condition of the systems.

2. Determine the city inch-diameter-miles (idm) within the delta meter subsystem. The delta meter subsystem idm could be determined annually, or assumed to remain the same for a period of three to five years.
3. Determine the CRWS interceptor idm within the delta meter subsystem.
4. Determine the annual subsystem I/I per idm. (No. 1 divided by the sum of No. 2 and No. 3)
5. Determine the adjusted CRWS interceptor idm. The adjusted interceptor idm is based on the interceptor size required to transport the existing flow capacity provided for the upstream city using the slope of the existing CRWS interceptor segments from the upstream meter to the delta meter. The existing interceptor size in excess of the size required for the upstream city is considered to be required to serve the delta metered city, regardless of ownership.
6. Apply the annual subsystem I/I per idm to the adjusted CRWS interceptor idm. (No. 4 multiplied by No. 5)
7. Adjust the Fiscal Year Contribution Based on Actual Flow for each of the contracting parties.
8. Adjust the Distribution of Fiscal Year Actual Annual Requirement Based on Actual Flows for each of the contracting parties.

MEMORANDUM

Trinity River Authority of Texas
Interceptor I/I Proration
Negative Flow Adjustment

B&V Project 66779.110
B&V File B
July 26, 2001

To: Patricia Cleveland

From: Layne Parsons, P.E.

The following methodology is proposed for adjusting negative average daily flow (ADF) and infiltration/inflow (I/I) flows used in the interceptor I/I proration calculation.

ADF Adjustment

If a negative ADF value is calculated for a receiving (delta) meter, negative ADF should not be adjusted for the interceptor I/I proration. ADF and I/I will be zero (0) at delta meter locations with negative ADF.

I/I Adjustment

If a negative I/I value is calculated for a receiving (delta) meter, use the following steps to determine an adjusted I/I value:

1. Using the estimated developed acres and the current annual I/I, determine the average gallons-per-acre-day (gpad) for the meters upstream of the receiving (delta) meter.
2. Apply the calculated average gpad I/I flow value to the cumulative developed acres for the receiving (delta) meter to determine a revised annual I/I for the receiving (delta) meter.
3. Using the revised annual cumulative I/I for the receiving (delta) meter, calculate the delta I/I.

**CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION
FLOW ANALYSIS CRITERIA**

The average annual daily flow (ADF) is defined to be the total annual flow divided by the total number of days in the year.

The average daily dry weather flow is defined to be the lowest seven day average flow recorded during the year.

The following criteria are established for the analysis of the flows used to determine the ADF and ADDF for the interceptor I/I proration.

1. The beginning of the fiscal year for flow recordings may result in partial inclusion of the first seven day average meter recording. Partial seven day average meter recordings consisting of less than four (4) days will not be considered for use as the ADDF.
2. During the year, there may be a need to adjust the recorded flows. The reason for these adjustments may include, but not be limited to line blockage or year-to-date (YTD) adjustments. Adjusted flows will not be considered for use as ADDF.



HANDOUT AGENDA ITEM V-B

CRWS - 2002 MID YEAR REALLOCATION

00myadjPROJ

CONTRACTING PARTY	2002 BUDGET MGD	2002 BUDGET % SHARE	2002 REVISED MGD	2002 REVISED % SHARE
ADDISON	2.420	1.664%	2.2387	1.509%
ARLINGTON	41.080	28.230%	44.7131	30.131%
BEDFORD	4.666	3.206%	4.9382	3.328%
CARROLLTON	12.100	8.315%	12.7200	8.571%
CEDAR HILL	0.245	0.168%	0.3286	0.221%
COLLEYVILLE	2.539	1.745%	2.1114	1.423%
COPPELL	3.700	2.543%	3.8984	2.627%
DALLAS	7.500	5.154%	9.0639	6.108%
DFW AIRPORT	2.310	1.587%	1.8967	1.278%
DUNCANVILLE	0.200	0.137%	0.2354	0.159%
EULESS	4.100	2.817%	4.4239	2.981%
FARMERS BRANCH	6.700	4.604%	6.9031	4.652%
FORT WORTH	1.267	0.871%	2.0994	1.415%
GRAND PRAIRIE	16.208	11.138%	15.4214	10.392%
GRAPEVINE	2.380	1.635%	1.9017	1.281%
HURST	0.183	0.126%	0.1934	0.130%
IRVING	30.000	20.616%	26.9834	18.183%
KELLER	2.415	1.659%	2.5786	1.738%
MANSFIELD	3.250	2.233%	3.4659	2.335%
N RICHLAND HILLS	0.565	0.388%	0.5598	0.377%
SOUTHLAKE	1.694	1.164%	1.7273	1.164%
TOTAL	145.5220	100.000%	148.4023	100.000%

HANDOUT AGENDA ITEM V-D

August 7, 2002
(Previous report August 6, 2001)

CENTRAL REGIONAL WASTEWATER SYSTEM DESIGN AND CONSTRUCTION PROJECTS STATUS REPORT

ACTIVE PIPELINE DESIGN PROJECTS

BEAR CREEK INTERCEPTOR SYSTEM

Name: Bear Creek Interceptor, BC-4
Location: City of Colleyville
From Little Bear Creek to north city limit of Bedford
Type/Size: Preliminary Evaluation of 2700 ft. of 8" to 15" diameter parallel relief pipeline
Status: Preliminary Design Contract awarded in June 2001
Preliminary Design Report Contract to be completed by November 2002

ELM FORK INTERCEPTOR SYSTEM

Name: Elm Fork Relief Interceptor, EF-G
Location: Cities of Coppell and Carrollton
Adjacent to Belt Line Road, from Luna Road to Fairway
Type/Size: 48" parallel relief of 6900 ft. of 33" diameter pipeline
Status: Design initiated November 1994
Design Revisions begun May 1997
Final Design revisions completed June 2000
Design is 99% complete
Easement/permit acquisition 95% complete
Condemnation proceedings in progress
Anticipated construction award by December 2002

Name: Elm Fork Relief Interceptor, EF-1
Location: City of Irving
North of CRWS Treatment Plant, from West Fork of Trinity River to SH 183
Type: 102" parallel relief of 25,300 ft. of 72" & 96" diameter pipelines
Status: Design begun in 1996
Design 95% complete
Easement acquisition begun December 2000
Anticipated construction award in late 2003

Name: Elm Fork Relief Interceptor, EF-2
Location: Cities of Irving and Dallas
North of SH 183 to Spur 348
Type: 96" parallel relief of 20,600 ft. of 96" diameter pipeline
Status: Design initiated in 1995
Revisions to Final Design made in December 1997
Design 91% complete
Easement acquisition to begin by January 2002
Anticipated construction award in late 2003

Name: Elm Fork Relief Interceptor, EF-6
Location: Cities of Farmers Branch and Dallas
North of Spur 348 to I-635
Type: 72" parallel relief of 12,900 ft. 72" diameter pipeline
Status: Design initiated in August 1998
Design 41% complete
Easement acquisition to begin in 2002
Anticipated construction award by late 2003

MOUNTAIN CREEK INTERCEPTOR SYSTEM

Name: Kirby Creek Outfall Interceptor
Location: City of Grand Prairie
From Fish Creek to Great Southwest Parkway
Type: Preliminary Engineering Study and Environmental Assessment of 20,500 ft. of 12" to 24" line
Status: Design Contract awarded in August 1998
Preliminary Engineering Study completed August 1999
Environmental Assessment completed by March 2001
Work is 95% complete
Design to be initiated by October 2002
Easement acquisition to begin by April 2003
Anticipated construction award in October 2003

Name: MCKC II Rehabilitation
Location: City of Grand Prairie
Upstream of LS 4 along Mountain Creek Lake
Type: Rehab 4,650 ft. of 30" diameter pipeline
Status: Design initiated in 2001
Design 100% complete
Easement acquisition in progress
Anticipated construction award by October 2003

WEST FORK INTERCEPTOR SYSTEM

Name: West Fork Relief Interceptor, WF-G Phase II and I-A-1 Erosion
Location: City of Grand Prairie
From Bear Creek System junction approximately 3,900 ft. upstream toward Belt Line Road
Type: 84" parallel relief of 3,900 ft. of 45" & 66" lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design completed in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Design is 100% complete
Construction contract to be awarded in October 2002

Name: West Fork Interceptor, WF-1
Location: City of Grand Prairie
From the Plant to Bear Creek System junction
Type/Size: 84" parallel relief of 17,800 ft. of 84" pipeline
Status: Design Contract awarded in June 1998
Preliminary Engineering Study completed 2001
Environmental Assessment completed
Evaluation of TXDOT conflicts and pipeline reroutes completed by February 2001
Final Design is 80% complete
Easement acquisition started December 2001
Anticipated construction award by February 2003

Name: West Fork Interceptor, WF-3
Location: City of Grand Prairie
Johnson Creek from junction with West Fork to Hwy. 360
Type/Size: Preliminary Evaluation of 24" parallel relief of 11,050 ft. of 30" line
Status: Preliminary Design Contract awarded in June 1998
Environmental Assessment completed by December 2001
Design is 98% complete
Final Design contract to be awarded by December 2002

Name: West Fork Interceptor, WF-11A
Location: City of Grand Prairie
From Johnson Creek to Roy Orr Blvd.
Type: Preliminary Engineering Study and Environmental Assessment of 72" diameter
parallel relief 6,900 ft. of 60" diameter line
Status: Design awarded in August 1998
Draft Environmental Assessment completed March 2000
Design is 31% complete
Easement acquisition to begin by January 2003
Anticipated construction award in 2003

Name: West Fork Relief Interceptor, WF-11B
Location: Cities of Arlington and Grand Prairie
From Roy Orr Boulevard to west of West Fork of Trinity River
Type: 84" diameter parallel relief of 16,000 ft. of 66" to 84" diameter line
Status: Design contract awarded in June 1998
Preliminary engineering and environmental assessment completed March 2000
Engineering evaluations & negotiation of pipeline relocation, November 1999 to
December 2001
Revised environmental assessment completed in April 2001
Revised pipeline alignment in summer 2001
Design 67% complete
Easement acquisition begun in late 2001
Anticipated construction award in March 2003

Name: I and I Management Plan – Phase IV
Type: Planning
Status: Contract awarded in December 2001
Work is approximately 37% complete

ACTIVE PLANT DESIGN PROJECTS:

Name: Bar Screening Improvements, Phase I and II
Location: PS 6/6A
Type: Rehabilitation and Maintenance
Status: Design of Phase I is 100% complete
Design of Phase II is 100% complete
Construction contract awarded in June 2002
Construction to be completed by November 2003

Name: Clarifier Piping Improvements
Location: Primary Clarifiers
Type: Evaluation and Piping Rehabilitation
Status: Contract to be approved in August 2002

Name: Stage VI Odor Control Improvements
Location: Plant
Type:
Status: Design in progress

ACTIVE CONSTRUCTION PROJECTS- (as of July 2002)

Name: Little Bear Creek CO-1/GV-4
Location: City of Hurst
East of Precinct Road, north of SP RR/West of Hwy 121 & north of Glade
Type: Rehabilitation of 1500 ft. of 12" diameter line/200 ft. line repair
Status: Project added to BC Rehab. in 1998
Final Design completed in June 2001
Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction is approximately 82% complete

Name: Bear Creek Rehab., Section II & III
Location: Cities of Irving and Ft. Worth
South of DFW International Airport
Type: Rehabilitation of 9000 ft. of 39" diameter line
Status: Preliminary Design Study initiated in February 1996
Engineering Evaluation completed in January 1997
Design initiated May 1997
Final Design completed in June 2001

Easement and permit acquisition completed in July 2001
Construction awarded in October 2001
Construction is approximately 82% complete

Name: Elm Fork Interceptor, MS 15.0E
Location: City of Carrollton
South of I-635 and north of Luna Road
Type/Size: Re-build meter station
Status: Design completed April 2002
Construction in progress

Name: Mountain Creek Interceptor, MC-4A
Location: Cities of Grand Prairie and Arlington
Bowman Branch, South Fork Fish Creek to Loyd Park
Type: Construct new lift station, 10,000 ft of twin 24" diameter force main to replace existing 18" force main, and build 7,500 ft of 54" diameter pipeline to replace existing 24" diameter gravity pipeline
Status: Environmental Assessment completed in April 1999
Design Contract awarded in August 1999
Evaluate possible reroute options in South Grand Prairie due to land development
Modify design for two 24" diameter force main and 54" gravity pipeline in July 2001
Easement acquisition begun in October 2000
USACE environmental data and reports to be completed by September 2001
Easement acquisition to be completed by October 2002
Construction contract awarded in June 2002
Construction <1% complete
Construction to be completed by December 2003

Name: Mountain Creek Interceptor, MC-4B
Location: Cities of Grand Prairie, Arlington, and Mansfield
Loyd Park to Holland Road
Type: 16,000 ft of 48" relief pipeline replacement of 24" gravity pipeline
Status: Environmental Assessment completed in April 1999
Design Contract awarded in August 1999
Final design to begin in September 2000
Easement acquisition to begin March 2001
USACE environmental data and reports to be completed by September 2001
Easement acquisition completed by August 2002
Construction contract awarded in June 2002
Construction <1% complete
Construction to be completed by July 2003

Name: Harwood Road SS Maintenance
Location: Cities of Grand Prairie
Fish Creek to Camp Wisdom-Webb Lynn Roads
Type: 6,000 ft of 24" relief pipeline replacement of 24" gravity line
Status: Design completed by TRA – April 2002
Easement acquisition begin March 2002

Easement acquisition in progress
Construction contract awarded April 2002
Construction is 51% complete
Construction to be completed by October 2002

Name: West Fork Relief Interceptor, WF-C, N, B, P, & M
Location: City of Arlington
From West of Hwy. 360 to west of Collins Street
Type: 72" parallel relief of existing 54" & 60" lines
Status: Design initiated in 1996
Design completed in December 1998
EA completed by December 1998
Construction contract awarded in December 1998
Construction 97% complete
Construction to be completed by August 2002

Name: West Fork Relief Interceptor, WF-G, Phase I
Location: City of Grand Prairie
From 3,900 feet west of Bear Creek System junction to Belt Line Road
Type: 84" parallel relief of 2,200 ft. of 45" & 66" lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design 100% complete in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Construction contract awarded in April 2001
Construction is approximately 99% complete
Construction to be completed by September 2002

Name: Bar Screening Improvements, Phase I and II
Location: PS 6/6A
Type: Plant
Status: Design of Phase I is 100% complete
Design of Phase II is less than 100% complete
Construction contract awarded in June 2002
Construction <1% complete
Construction to be completed by November 2003

Name: Gravity Sand Filters Rehabilitation
Location: Plant
Type: Rehabilitation and Maintenance
Status: Design is 100% complete
Construction Contract awarded in June 2002
Construction is >75% complete
Construction to be completed by October 2002

List of Construction Project Improvements Completed since August 2001 Report

1. Flow Monitoring and Telemetry Improvements
2. 2000 Odor Control Stage IV Project – Biofilters
3. Solids Dewatering and Handling Equip. – Belt Presses
4. Sludge Collection System
5. MC-1 Pipeline
6. WF-C,N,B,P,&M Pipeline
7. I/I Management Phase III- update POE and flow data, and select ESRI GIS and HydroWorks software





HANDOUT AGENDA ITEM VI

Northern Region Office

DATE: August 13, 2002

FILE: 3110.102/3110.800

TO: MEMBER, ADVISORY COMMITTEE
CENTRAL REGIONAL WASTEWATER SYSTEM

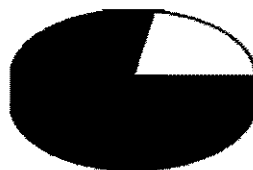
RE: Central Regional Wastewater System
Proposed FY 2003 Budget

Authority management annually prepares a proposed budget of anticipated revenues and expenditures of the Central Regional Wastewater System in accordance with the fiscal provisions of our Wastewater Services Contract for the ensuing fiscal year. We are pleased to present to you the proposed FY 2003 Budget for the annual operating funds of the Central System. This budget is relevant to the time period for December 1, 2002 through November 30, 2003.

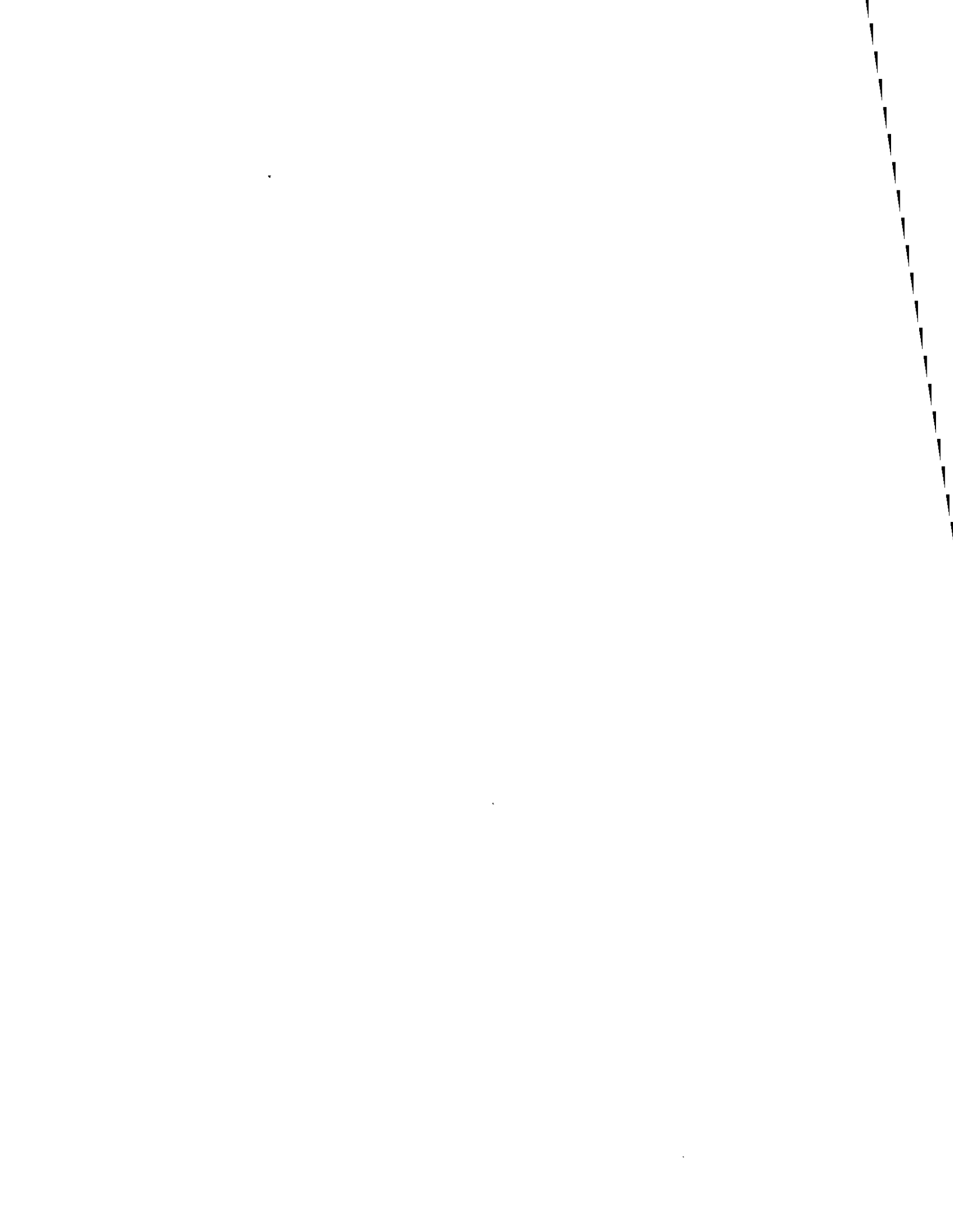
This budget reflects the proposed financial activities of operating and debt service funds, provides for our continuing ability to deliver high quality, efficient wastewater service to our Contracting Parties, and will continue to position the Central System for increased growth, regulatory changes and maximized internal operational productivity measures to result in cost efficient wastewater treatment. Events of 2001 have led us to re-evaluate priorities and values, and re-assess the vulnerability of our staff and facilities. This past year, the Authority has worked to ensure the security and integrity of our Central System and the reliability of our services and progress on this effort will continue into FY 2003. Therefore, the budget reflects the Authority's continued commitment to protect capital investments, keep operational expenses to a minimum and to maximize the process of increasing operational efficiency throughout the Authority. A brief overview of Central's financial picture for FY 2003 will reveal an increase in overall System expenditures, with only those increases in operating accounts required to meet contractual obligations for our treatment of wastewater, as well as an increase associated with the debt service requirements, as compared to previous year. The operation and maintenance expenditures were developed based on transporting and treating an average daily flow of 150.150 MGD. The cost of debt service requirements is based on principal and interest payments due on outstanding Central Regional Wastewater System Revenue Bonds.

The anticipated expenditures in FY 2003 total \$58,077,710, an approximate 6.8% increase over the \$54,352,130 predicted for the current fiscal year. The projected costs for salaries and related benefits, association dues, maintenance and operating supplies, laboratory supplies, process chemicals, computer software, licenses and instrument supplies, audits, engineering services, Authority computer network, process SCADA and maintenance management support, professional services, postage,

Expenses



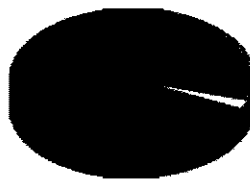
- 55.49% Debt Service and Miscellaneous
- 22.02% Other Services and Charges
- 14.46% Personal Services
- 6.12% Supplies
- 1.91% Capital Outlays



Project insurance payments, employee travel, laundry and uniforms, water usage, collection system, equipment, vehicle and electrical system maintenance repairs, transportation and beneficial use of biosolids, administrative overhead and capital outlays essential for delivering services during the year have increased \$2,183,400 above the predicted FY 2002 Budget. The increase in the proposed FY 2003 Budget for operating accounts is partly offset by a \$404,740 reduction in service cost for power usage and in other operating category accounts by holding the line on controllable costs, as close scrutiny was given to all anticipated expenditures. Along with decreases in some predicted operating accounts, there is an increase in programmed debt payments of \$1,946,920, resulting in an overall projected increase of \$ 3,725,580 for FY 2003 expenditures above the FY 2002 Budget. As is shown in the following table, and despite additional costs not foreseen one year ago, the predicted gross unit cost/1000 gallons is the same as last year's projection for the coming FY 2003, and the net cost/1000 gallons is slightly less than forecast.

Anticipated FY 2003 revenues from the System's Contracting Parties, totaling \$54,613,900, reflects an 8.3% increase above the FY 2002 projected revenue requirement of \$50,421,660. The resulting predicted gross and net unit costs of service for wastewater transportation and treatment throughout FY 2003 are 3.5% and 4.9% over the respective predicted FY 2002 budgeted unit costs as reflected in the following table:

Revenue



- 93.49% Contract Revenue
- 2.64% Interest Income
- 1.68% Miscellaneous Income
- 1.42% Operating Overhead and Services
- 0.77% Professional Fees

Unit	Cost/1000 gallons		
	Predicted FY 2003	Budgeted FY 2002	Last Year's Projections For FY 2003
Gross (based on total cost)	1.059	1.023	1.059
Net (cost to Contracting Parties)	0.996	0.949	1.006

The following exhibits are presented to provide flow allocations, a summary of budget objectives and detailed information about the five major budget categories, as well as additional quantitative and statistical information for your review:

- Exhibit A - Flow Allocations
- Exhibit B - Budget Objectives
- Exhibit C - Budget at a Glance
- Exhibit D - Personal Services
- Exhibit E - Supplies
- Exhibit F - Other Services and Charges
- Exhibit G - Capital Outlays
- Exhibit H - Debt Service and Miscellaneous
- Exhibit I - Historical System Data
- Exhibit J - Projected Future Costs of Service

August 13, 2002
3110.102/3110.800
MEMBER, ADVISORY COMMITTEE
Page 3

The proposed FY 2003 Budget (Exhibit K) is presented for your review and consideration and will be discussed in the August 13, 2002 Advisory Committee meeting. Additionally, a Budget Workshop will be held in the upstairs conference room of the Administrative Building at the Central Regional Wastewater System on Monday, August 26, 2002, beginning at 10:00 a.m. for those representatives and city staff members who do not attend the Advisory Committee meeting or desire to discuss the proposed budget in more detail. A later Advisory Committee meeting is scheduled for Tuesday, September 10th, at which time the committee will be requested to recommend the proposed FY 2003 Budget for adoption by the Authority's Board of Directors.

If there are any questions concerning the proposed budget or the workshop, please contact the Northern Region office.



PATRICIA M. CLEVELAND
Manager, Operations
Northern Region

PMC/rrc

Attachments

- c: Danny F. Vance, General Manager
- Warren N. Brewer, Regional Manager, Northern Region
- Bill Tatum, Project Manager, Central Regional Wastewater System



**EXHIBIT A
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2003 FLOW ALLOCATIONS**

CITY	FY 2002	FY 2002	FY 2003	FY 2003
	FLOW (MGD)	% ALLOCATION	FLOW (MGD)	% ALLOCATION
ADDISON	2.420	1.664%	2.280	1.518%
ARLINGTON	41.080	28.230%	45.460	30.276%
BEDFORD	4.666	3.206%	4.700	3.130%
CARROLLTON	12.100	8.315%	12.000	7.992%
CEDAR HILL	0.245	0.168%	0.300	0.200%
COLLEYVILLE	2.539	1.745%	2.527	1.683%
COPELL	3.700	2.543%	3.900	2.597%
DALLAS	7.500	5.154%	8.500	5.661%
DFW AIRPORT	2.310	1.587%	2.310	1.538%
DUNCANVILLE	0.200	0.137%	0.200	0.133%
EULESS	4.100	2.817%	4.275	2.847%
FARMERS BRANCH	6.700	4.604%	6.700	4.462%
FORT WORTH	1.267	0.871%	1.368	0.911%
GRAND PRAIRIE	16.208	11.138%	16.690	11.116%
GRAPEVINE	2.380	1.635%	1.920	1.279%
HURST	0.183	0.126%	0.202	0.135%
IRVING	30.000	20.616%	28.750	19.148%
KELLER	2.415	1.659%	2.415	1.608%
MANSFIELD	3.250	2.233%	3.250	2.165%
N RICHLAND HILLS	0.565	0.388%	0.703	0.468%
SOUTHLAKE	1.694	1.164%	1.700	1.132%
TOTAL	145.522	100.000%	150.150	100.000%

BUDGETED FY 2003 FLOWS

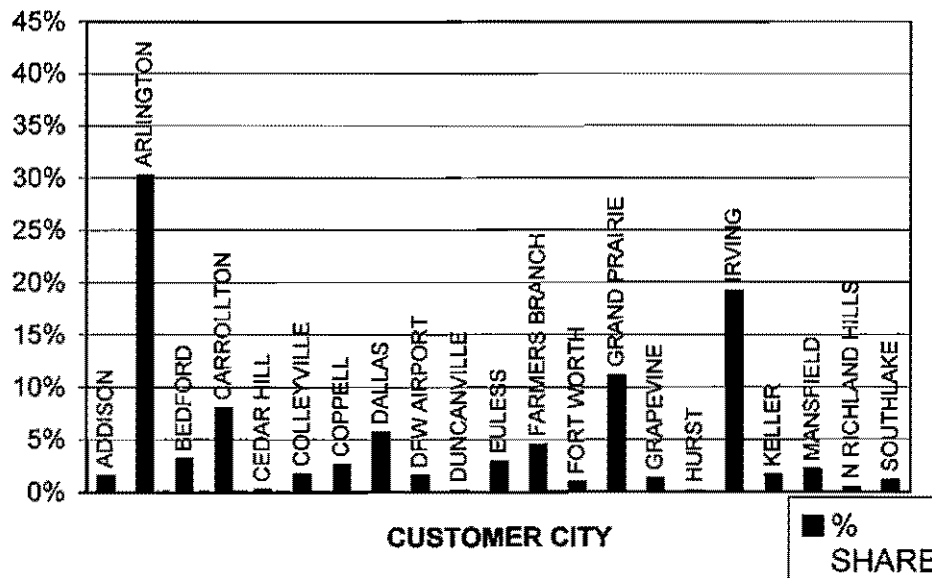


EXHIBIT B
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2003

DESCRIPTION OF THE PROJECT

The Trinity River Authority's Central Regional Wastewater System is a large regional wastewater system located on 495 acres adjacent to the West Fork of the Trinity River and is currently serving approximately one million customers in Dallas, Tarrant, Ellis, Johnson and Denton counties of north central Texas. The service area encompasses all or portions of 20 cities in the Dallas/Fort Worth metroplex, as well as the Dallas/Fort Worth International Airport. The Central Regional Wastewater System treatment plant is an advanced secondary facility currently permitted to treat 162 million gallons per day (MGD). This System consists of an extensive regional network of interceptors, pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for golf course irrigation and lake level management under the first major urban reuse program in Texas.

GOALS AND OBJECTIVES FOR FY 2003

The Authority's objectives are reflected in the recommended Annual Operating Budget for Central Regional Wastewater System FY 2003. The major goals and objectives are:

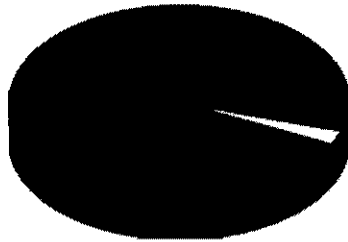
- Operate and adequately protect the Central System's capital investments by proper maintenance, which includes a 162 MGD treatment plant, over 200 miles of interceptors, four lift stations, 138 metering stations, an analytical laboratory, and the DCURD water reuse project.
- Provide wastewater transportation and treatment services for a projected flow contribution of 150.15 MGD.
- Continue operating at efficient levels and minimize unit costs while enhancing treatment capacity and meeting all regulatory requirements.
- Continue Authority efforts to reduce overall wet-weather flow impacts to the System by installing new pipelines for capacity, rehabilitating existing collection system infrastructure and plant facilities as identified in the first and second phases of the 1998 Five Year Plan; funded by the Series 1998A and 2000 Revenue Bonds, and the third phase funded by the Series 2001 Bonds.
- Operate and maintain odor control facilities consistent with the Odor Control Management Plan and implement additional odor improvements in the primary treatment areas to reduce risk of adjacent area odors.
- Provide Contracting Parties laboratory testing and pretreatment program capabilities and services on a revenue-supported basis.
- Continue 100% land application of System biosolids under a five-year agreement.
- Respond in a timely fashion to Customer Cities' requests for assistance.



EXHIBIT C
FISCAL YEAR 2003 BUDGET AT A GLANCE
CENTRAL REGIONAL WASTEWATER SYSTEM
PROPOSED OPERATION AND MAINTENANCE BUDGET

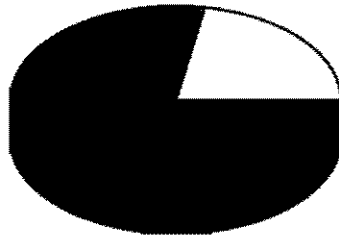
Revenue	\$58,419,360
Expenses	\$58,077,710
Variance (Retained for FY 2004 Debt Requirements)	\$341,650

Revenue



- 93.49% Contract Revenue
- 2.64% Interest Income
- 1.68% Miscellaneous Income
- 1.42% Operating Overhead and Services
- 0.77% Professional Fees

Expenses



- 55.49% Debt Service and Miscellaneous
- 22.02% Other Services and Charges
- 14.46% Personal Services
- 6.12% Supplies
- 1.91% Capital Outlays

FISCAL YEAR 2003
FUND SUMMARY

Revenue Summary

Contract Revenue	\$54,613,900
Operating Overhead and Services	\$831,510
Professional Fees	\$450,000
Interest Income	\$1,544,900
Miscellaneous Income	\$979,050

Total Sources of Funds	\$58,419,360
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Expenditure Summary

Personal Services	\$8,399,720
Supplies	\$3,556,400
Other Services and Charges	\$12,785,680
Capital Outlays	\$1,108,790
Debt Service and Miscellaneous	\$32,227,120

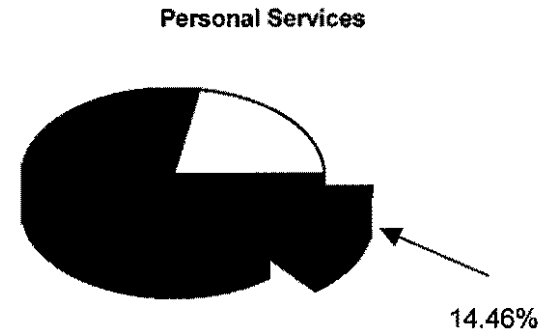
Total Application of Funds	\$58,077,710
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**EXHIBIT D
CENTRAL REGIONAL WASTEWATER SYSTEM**

**PERSONAL SERVICES
FY 2003**

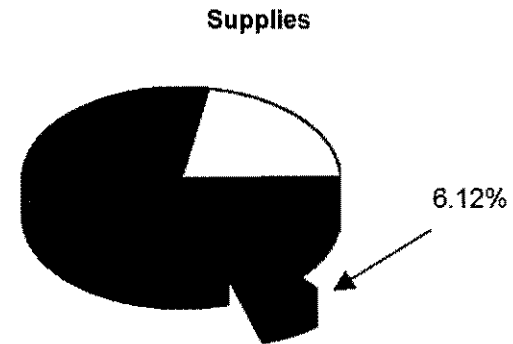
- Proposed FY 2003 of \$8,399,720 vs Current FY 2002 of \$7,901,870 = Variance \$497,850 or + 6.3%.
- The budget category of Personal Services includes eight line item accounts. As compared with present budget, one line item account decreased (-) \$2,000 (Education), one remained unchanged (Unemployment Compensation) and five increased (+) \$499,850 (Salaries, FICA, Health/Life Insurance, Pension, and Employee Service Recognition).
- The anticipated increase in salaries and related benefit costs is partly due to usual provisions for forecasted salary adjustments based on merit, varying with each individual employee. Also, provisions are included for cost increases in the Authority's Health Insurance expenses due to claims experience that has resulted in premium increases.
- Authority management believes that the Central facility can be operated efficiently and maintain adequate margins of safety with one Project Manager, an Operations/Maintenance staff of 98, plus 52 Technical Services/Pretreatment staff, Administrative staff of 9, and 7 Purchasing/Warehouse staff.



Personal Services expenditures include those costs associated with the staffing required to operate, maintain, and administer the treatment plant, biosolids program, laboratory, pretreatment program, collection system, and meter stations. Significant line item accounts in this category of expenditures include salaries, payroll taxes, health insurance, and pension.

**EXHIBIT E
CENTRAL REGIONAL WASTEWATER SYSTEM
SUPPLIES
FY 2003**

- Proposed FY 2003 of \$3,556,400 vs Current FY 2002 of \$3,177,200 = Variance \$379,200 or + 11.9%.
- The budget category of Supplies includes eight line items accounts. As compared with the present budget, three decreased (-) \$7,810 (Office Supplies, TNRCC Fees and Fuel) and the remaining five line item accounts increased (+) \$387,010 (Dues, Maintenance and Operating Supplies, Lab Supplies, Process Chemicals, and Computer Software, Licenses and Instrument Supplies).
- Over 70% of the expenditures for Supplies is for the purchase of process chemicals. The increase of \$102,100 in anticipated process chemical expenditures is primarily associated with an increase for ferric chloride and polymer necessary for solids thickening and dewatering, as well as ferrous chloride for odor control.
- Included in the Computer Software, Licenses and Instrument Supplies account is the Project's share of an Authority-wide Enterprise Resource Planning software which will integrate financial, payroll, human resources, budget reporting, asset management, and purchasing into one integrated system. The cost to purchase and implement will be budgeted over a three-year period.

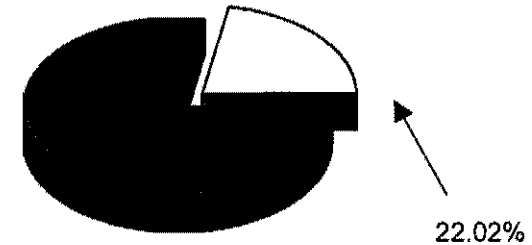


Approximately 70% of the expenditures in this category are for the purchase of process chemicals necessary for sludge thickening, dewatering and stabilization, odor control, effluent disinfection and dechlorination, and other treatment processes.

**EXHIBIT F
CENTRAL REGIONAL WASTEWATER SYSTEM
OTHER SERVICES AND CHARGES
FY 2003**

- Proposed FY 2003 of \$12,785,680 vs Current FY 2002 of \$12,104,910 = Variance \$680,700 or + 5.6%.
- The budget category of Other Services and Charges includes 22 line item accounts. As compared with the present budget, one remained unchanged (Legal), six line item accounts decreased (-) \$394,930, and fifteen increased (+) \$1,075,000.
- Over 85% or \$279,320 of the decreased expenditures in this category is for power usage due to the competitive negotiation of an energy contract for the time period of January 1, 2001 through May 31, 2003. The remaining decreases in this category are due to reduced expenses for telephone, printing and binding, training, repair and maintenance of plant and buildings, and equipment rental.
- This category of expenditures includes increases in Authority audit expense, engineering services, Authority's computer network, process SCADA and maintenance management system support services, professional services, postage, Project insurance payments, employee travel, laundry and uniforms, water usage, repair and maintenance of collection system, equipment, vehicles and electrical systems, off-site biosolids land application, and administrative overhead costs.

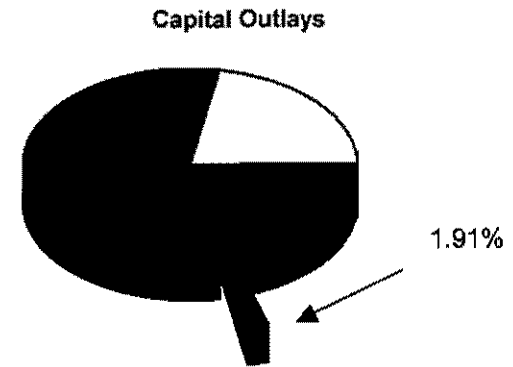
Other Services and Charges



This category of expenditures relates to the indirect costs associated with the collection and treatment system, vehicles, and off-site biosolids disposal.

**EXHIBIT G
CENTRAL REGIONAL WASTEWATER SYSTEM
CAPITAL OUTLAYS
FY 2003**

- Proposed FY 2003 of \$1,108,790 vs. Current FY 2002 of \$887,950 = Variance (+) \$220,840 or 24.9%.
- The Capital Outlays category can vary significantly from year to year as major equipment is only purchased on an annual as needed basis.
- This category consists of 60% or \$659,790 of capital expenditures for replacement items and 40% or \$449,000 of new capital equipment items proposed for purchase in FY 2003.
- Approximately 62% or \$457,000 of the proposed Capital Outlay items for replacement are for the Project Manager's sedan, three trucks, the heavy equipment item of a boom truck which all have excessive mileage and wear due to age, and replacement of two analytical laboratory spectrophotometers for identifying metal compounds (inductively coupled plasma spectrophotometer and heat graphite atomic absorption unit). Approximately 76% of the primary expenses under the category of new items is for security electronic surveillance equipment, a Vactor/rodder assembly, and one new utility vehicle for the pretreatment program.
- A list of all the projected capital expenditures is on pages 27 and 28 of the attached proposed FY 2003 Budget.



The category of Capital Outlays consists of the purchase of machinery and equipment to achieve a new purpose or replace existing equipment.

EXHIBIT H
CENTRAL REGIONAL WASTEWATER SYSTEM
DEBT SERVICES AND MISCELLANEOUS
FY 2003

- Proposed FY 2003 of \$32,227,120 vs. Current FY 2002 of \$30,280,200 = Variance (+) \$1,946,920 or (+) 6.4%.
- The amount budgeted for Debt Service reflects the fixed and established schedules based on outstanding debt of the Central System.
- In July 1998, the Authority issued \$50,845,000 in Regional Wastewater System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects for the Central Regional Wastewater System. These bonds were purchased by the State Revolving Funds of the Texas Water Development Board.
- In September 1998, the Authority issued \$66,950,000 in System Improvement and Refunding Bonds, with \$61,375,000 being refunded, producing a savings of \$2.7 million through the life of the bond.
- In July 2001, The Authority issued \$88,225,000 in Regional Wastewater System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects for the Central Regional Wastewater System. These bonds were purchased by the State Revolving Funds of the Texas Water Development Board.
- The increase in debt expenditures over the present FY 2002 Budget is due to the overall increase in scheduled debt service payments in FY 2003.

Debt Service and Miscellaneous

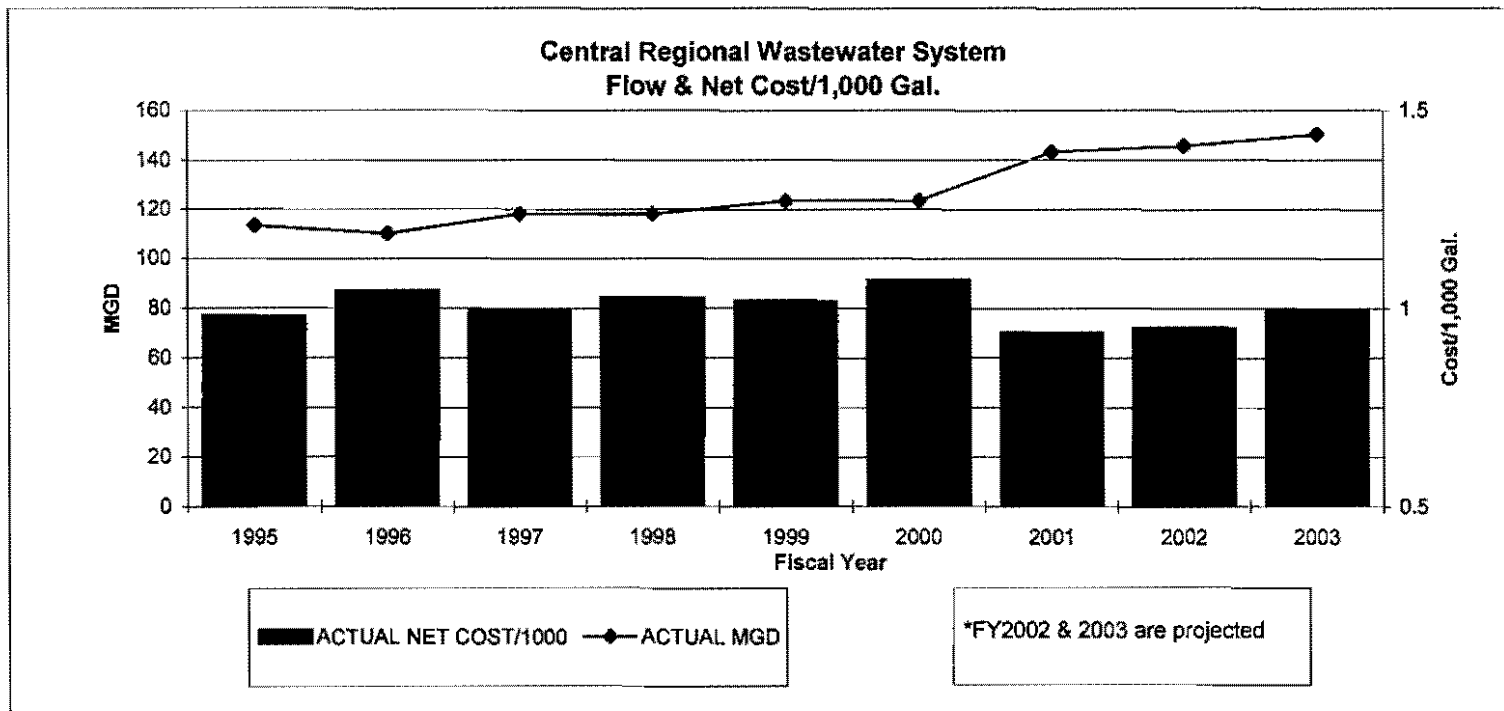


Debt Services and Miscellaneous includes the annual principal and interest payments due on System bonds and the associated paying agent fees. Typically, annual principal and interest payments are structured to provide relatively level debt service requirements from year to year until such time as additional bonds are issued.



**EXHIBIT I
CENTRAL REGIONAL WASTEWATER SYSTEM
CURRENT AND HISTORICAL SYSTEM FINANCIAL AND FLOW DATA**

FISCAL YEAR	BUDGETED EXPENDITURES	ACTUAL EXPENDITURES	BUDGETED REVENUE	ACTUAL REVENUE	PROJECTED FLOW	ACTUAL FLOW	PROJECTED NET COST/1,000 GAL.	ACTUAL COST/1,000 GAL.
1995	\$44,817,530	\$43,621,706	\$41,915,240	\$40,594,960	112.37 MGD	113.37 MGD	\$1.0220	\$0.9810
1996	\$47,693,245	\$46,327,057	\$44,889,460	\$42,064,179	114.14 MGD	110.08 MGD	\$1.0745	\$1.0440
1997	\$48,358,525	\$47,401,825	\$45,233,590	\$42,891,464	116.00 MGD	118.01 MGD	\$1.0683	\$0.9958
1998	\$47,014,070	\$46,752,148	\$43,601,935	\$43,673,073	118.28 MGD	118.04 MGD	\$1.0099	\$1.0136
1999	\$50,390,530	\$50,691,945	\$45,859,710	\$45,808,213	123.31 MGD	120.64 MGD	\$1.0189	\$1.0403
2000	\$51,066,490	\$51,361,749	\$47,812,790	\$48,442,041	127.41 MGD	123.47 MGD	\$1.0253	\$1.0720
2001	\$54,509,150	\$56,087,461	\$49,187,660	\$51,953,155	143.13 MGD	146.49 MGD	\$0.9415	\$0.9716
2002	\$54,352,130	*	\$50,421,660	*	145.52 MGD	*	\$0.9493	*
2003	\$58,077,710	*	\$54,613,900	*	150.15 MGD	*	\$0.9965	*





**EXHIBIT J
CENTRAL REGIONAL WASTEWATER SYSTEM
PROJECTED FUTURE COST OF SERVICE**

FISCAL YR. ENDING NOV. 30	PROJECTED FLOW (MGD)	GROSS COST PER 1,000 GAL.	NET COST PER 1,000 GAL.
2003	150.15	\$1.059	\$0.996
2004	152.15	\$1.062	\$1.009
2005	154.15	\$1.161	\$1.103
2006	156.45	\$1.164	\$1.106
2007	158.75	\$1.228	\$1.167
2008	161.05	\$1.236	\$1.175

(1) NET COST IS PROJECTED TO BE 95% OF GROSS COST BASED UPON HISTORICAL TRENDS FOR FY 2004 THROUGH FY 2008.

(2) UNIT COST CALCULATION FOR FY 2004 THROUGH FY 2008 INCLUDES PROJECTED ADDITIONAL DEBT TO FINANCE PLANT AND COLLECTION SYSTEM IMPROVEMENTS.

(3) PROJECTED FLOW IS BASED UPON THE EXISTING SYSTEM'S CONTRACTING PARTIES ANTICIPATED FLOWS.

EXHIBIT K

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ENTERPRISE FUND

Description of the Project

The Central Regional Wastewater System (CRWS) consists of a treatment plant and appurtenances rated at 162 Million Gallons Per Day (MGD), interceptor pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for irrigation and level control under the first major urban reuse program in Texas.

CRWS provides wastewater transportation and treatment for the Cities of Irving, Grand Prairie, Farmers Branch, Dallas, Carrollton, Coppell, Cedar Hill, Euless, Bedford, Fort Worth, Arlington, Colleyville, Dallas/Fort Worth International Airport, Grapevine, Mansfield, Hurst, North Richland Hills, Duncanville, Southlake, Keller, and Addison. The estimated average daily volume of wastewater predicted to be received from the contributing cities in Fiscal Year 2002 is 150.150 Millions of Gallons Per Day (MGD).

City	2003		2002	
	Percent Contribution	Amount MGD	Percent Contribution	Amount MGD
Irving	19.148%	28.750	20.616%	30.000
Grand Prairie	11.116%	16.690	11.138%	16.208
Arlington	30.276%	45.460	28.230%	41.080
Farmers Branch	4.462%	6.700	4.604%	6.700
Dallas	5.661%	8.500	5.154%	7.500
Euless	2.847%	4.275	2.817%	4.100
Carrollton	7.992%	12.000	8.315%	12.100
D/FW Airport	1.539%	2.310	1.587%	2.310
Bedford	3.130%	4.700	3.206%	4.666
Coppell	2.597%	3.900	2.543%	3.700
Colleyville	1.683%	2.527	1.745%	2.539
Fort Worth	0.911%	1.368	0.871%	1.267
Grapevine	1.279%	1.920	1.635%	2.380
Mansfield	2.165%	3.250	2.233%	3.250
Hurst	0.135%	0.202	0.126%	0.183
North Richland Hills	0.468%	0.703	0.388%	0.565
Duncanville	0.133%	0.200	0.137%	0.200
Keller	1.608%	2.415	1.659%	2.415
Southlake	1.132%	1.700	1.164%	1.694
Cedar Hill	0.200%	0.300	0.168%	0.245
Addison	1.518%	2.280	1.664%	2.420
Totals	100.000%	150.150	100.000%	145.522

Located on 495 acres adjacent to the West Fork of the Trinity River, the CRWS Facility initiated operation in December 1959, initially serving four cities. The original plant consisted of a trickling filter process with a capacity of 30 MGD. The capacity was increased to 60 MGD in 1976 by the addition of mechanical dewatering equipment and an activated sludge process.

In 1980, a two phase expansion program was completed that increased the capacity to 100 MGD and provided tertiary treatment. Growth in the service area resulted in the expansion of the CRWS facility to a capacity of 135 MGD, with construction initiated in 1988 and completed in early 1994. Effluent discharged from CRWS consistently meets or exceeds the requirements specified in the TPDES permit issued by the Texas Natural Resource Conservation Commission (TNRCC). TNRCC approved an uprating of the discharge permit to an effluent level of 162 MGD with the completion of the solids dewatering project on April 1, 2001.

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
ENTERPRISE FUND**

Work Program

To maintain and operate the Central Plant on a 24-hour a day, 7-day a week basis requires a staff of three (3) department managers reporting to the Project Manager. In addition to the management staff, including purchasing and the inventory department, staffing is as follows:

System Operation and Maintenance	97
Administration Services	8
Technical Services	43
Northern Region Purchasing	7
Pretreatment	<u>8</u>
	163

The responsibility for selecting process parameters, actual treatment of wastewater, process and non-process equipment maintenance, maintenance, repair of electrical and electronic equipment, lift station maintenance sludge disposal and computer monitoring of plant processes lies with the Manager, System Operations, and the Operation and Maintenance Department.

The Manager, Administrative Services and staff provide support at the Central System in the areas of human resource administration, benefits, training, clerical, accounts payable, payroll, and capital asset control and data processing.

The Manager, Technical Services and staff provide analytical data for process control, influent monitoring and effluent quality reports. The Laboratory and Pretreatment Programs provide analytical and technical assistance to cities, state, and/or federal agencies and other TRA Projects on a contract basis. Engineering Services provide inspection and surveillance of the collection system and monitoring of flows from the Cities into the system.

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
TOTAL FUND SUMMARY

FUNDS AVAILABLE

Projected December 1, 2002 \$ 17,295,360

ESTIMATED SOURCES OF FUNDS

Contract Revenue	\$ 54,613,900	
Inter-Fund Services & Charges	414,340	
Operating Overhead	417,170	
Professional Fees	450,000	
Interest Income	1,544,900	
Miscellaneous Income	<u>979,050</u>	<u>58,419,360</u>

TOTAL FUNDS AVAILABLE \$ 75,714,720

ESTIMATED APPLICATION OF FUNDS

Appropriation Expenditures:

Personal Services	\$ 8,399,720	
Supplies	3,556,400	
Other Services and Charges	12,785,680	
Capital Outlays	1,108,790	
Debt Service and Miscellaneous	<u>32,227,120</u>	<u>58,077,710</u>

TOTAL FUNDS APPLIED \$ 58,077,710

FUNDS AVAILABLE

Projected November 30, 2003 \$ 17,637,010

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
REVENUE SUMMARY**

<u>DESCRIPTION OF REVENUE</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>	<u>2001 ACTUAL</u>
<u>CONTRACT AND OPERATING OVERHEAD REVENUE</u>			
(3010) Contract Revenue - Irving	\$ 10,457,470	\$ 10,394,930	\$ 10,221,781
(3020) Contract Revenue - Grand Prairie	6,070,880	5,615,960	5,639,307
(3030) Contract Revenue - Arlington	16,534,910	14,234,030	15,623,824
(3040) Contract Revenue - Farmers Branch	2,436,870	2,321,410	2,073,978
(3050) Contract Revenue - Dallas	3,091,690	2,598,730	2,877,391
(3060) Contract Revenue - Euless	1,554,860	1,420,380	1,343,646
(3070) Contract Revenue - Carrollton	4,364,740	4,192,560	4,258,815
(3080) Contract Revenue - D/FW Airport	840,510	800,190	834,736
(3090) Contract Revenue - Bedford	1,709,420	1,616,520	1,680,841
(3100) Contract Revenue - Coppell	1,418,320	1,282,220	1,374,954
(3110) Contract Revenue - Colleyville	919,150	879,860	870,684
(3120) Contract Revenue - Fort Worth	497,530	439,170	914,070
(3130) Contract Revenue - Grapevine	698,510	824,390	536,843
(3140) Contract Revenue - Mansfield	1,182,390	1,125,920	1,157,826
(3150) Contract Revenue - Hurst	73,730	63,530	71,853
(3160) Contract Revenue - North Richland Hills	255,590	195,640	220,177
(3170) Contract Revenue - Duncanville	72,640	69,080	58,029
(3180) Contract Revenue - Keller	878,190	836,500	738,966
(3190) Contract Revenue - Southlake	618,230	586,910	526,619
(3200) Contract Revenue - Cedar Hill	109,230	84,710	103,218
(3210) Contract Revenue - Addison	829,040	839,020	825,597
(3380) Inter-Fund Services & Charges	414,340	-	-
(3390) Operating Overhead - Other Projects	417,170	693,190	656,740
TOTAL CONTRACT AND OPERATING OVERHEAD REVENUE	<u>55,445,410</u>	<u>51,114,850</u>	<u>52,609,895</u>
<u>PROFESSIONAL FEES</u>			
(3980) Professional Fees	450,000	450,000	438,988
TOTAL PROFESSIONAL FEES	<u>450,000</u>	<u>450,000</u>	<u>438,988</u>
<u>INTEREST INCOME</u>			
(3810) Interest Income - Interest & Sinking Fund	229,600	489,580	459,263
(3820) Interest Income - Reserve Fund	1,147,800	1,416,420	1,523,753
(3840) Interest Income - Revenue Fund	123,500	336,320	310,544
(3870) Interest Income - Emergency	44,000	93,030	130,162
TOTAL INTEREST INCOME	<u>\$ 1,544,900</u>	<u>\$ 2,335,350</u>	<u>\$ 2,423,722</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 REVENUE SUMMARY

<u>DESCRIPTION OF REVENUE</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>	<u>2001 ACTUAL</u>
<u>MISCELLANEOUS INCOME</u>			
(3400) Overstrength Surcharge	\$ 600,000	\$ 600,000	\$ 625,408
(3410) Northeast Lakeview Lift Station	-	14,650	19,433
(3430) Pretreatment Revenue	22,000	22,000	61,844
(3440) Commodity Charge	51,810	51,810	140,017
(3480) Quantity Surcharge	36,800	36,800	28,089
(3990) Miscellaneous Income	<u>268,440</u>	<u>10,000</u>	<u>49,693</u>
TOTAL MISCELLANEOUS INCOME	<u>979,050</u>	<u>735,260</u>	<u>924,484</u>
 GRAND TOTAL	 <u>\$ 58,419,360</u>	 <u>\$ 54,635,460</u>	 <u>\$ 56,397,089</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 EXPENDITURE SUMMARY

<u>DESCRIPTION OF EXPENDITURE</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>	<u>2001 ACTUAL</u>
<u>PERSONAL SERVICES</u>			
(4000) Salaries - Regular	\$ 6,428,520	\$ 6,251,780	\$ 5,816,588
(4010) Salaries - Part-Time	37,370	-	41,925
(4020) Payroll Taxes - Fica	494,640	478,260	433,322
(4030) Emp. Ben - Health/Life Ins.	655,250	411,770	406,060
(4040) Employee Benefit - Pension	740,660	715,800	573,851
(4060) Unemployment Compensation	20,000	20,000	2,737
(4070) Emp. Recognition Program	16,280	15,260	13,880
(4080) Employee Benefit - Education	7,000	9,000	3,135
TOTAL PERSONAL SERVICES	<u>8,399,720</u>	<u>7,901,870</u>	<u>7,291,498</u>
<u>SUPPLIES</u>			
(4100) Office Supplies	50,200	51,200	44,008
(4110) Dues and Subscriptions	55,850	54,860	49,771
(4120) Fees Other Than Dues and Subscriptions	80,910	86,910	67,785
(4130) Maintenance and Operating Supplies	166,930	146,590	168,709
(4140) Lab Supplies	280,350	273,350	299,166
(4150) Process Chemicals and Supplies	2,524,000	2,421,900	2,109,998
(4160) Fuel, Oil, & Lubricants	103,630	104,440	101,313
(4170) Computer Software, Lic. & Instr. Supplies	294,530	37,950	51,588
TOTAL SUPPLIES	<u>3,556,400</u>	<u>3,177,200</u>	<u>2,892,338</u>
<u>OTHER SERVICES AND CHARGES</u>			
(4200) Auditing	37,500	36,000	35,500
(4210) Engineering	223,090	160,000	233,952
(4220) Legal	20,000	20,000	8,317
(4230) Outside Services	644,590	335,620	607,902
(4240) Other Professional Services	197,700	175,650	182,357
(4300) Telephone and Telemetering	91,060	106,570	78,489
(4310) Postage	8,520	8,220	7,913
(4320) Printing and Binding	11,010	12,730	9,255
(4330) Insurance Payments	287,430	179,420	130,630
(4360) Travel	19,300	16,500	17,793
(4370) Laundry, Uniform, & Ind. Equip	49,070	44,350	53,010
(4380) Training	70,600	111,940	39,225
(4400) Utilities	120,000	105,000	118,217
(4420) Power	4,553,480	4,832,800	4,856,570
(4430) R & M - Collection System	369,750	245,000	509,349
(4440) R & M - Equipment	223,200	218,300	213,768
(4450) R & M - Plant & Buildings	729,600	777,350	586,380
(4460) R & M - Vehicles	43,500	40,400	50,630
(4480) R & M - Electrical	587,000	510,150	415,002
(4490) Off-site Biosolid Land Application	2,665,190	2,534,140	2,343,012
(4510) Rent - Machinery & Equip.	79,520	88,810	47,213
(4660) Administrative Overhead	1,754,570	1,545,960	1,455,730
TOTAL OTHER SERVICES AND CHARGES	<u>12,785,680</u>	<u>12,104,910</u>	<u>12,000,214</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 EXPENDITURE SUMMARY

<u>DESCRIPTION OF EXPENDITURE</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>	<u>2001 ACTUAL</u>
<u>CAPITAL OUTLAYS</u>			
(4760) Machinery & Equipment	\$ 1,108,790	\$ 887,950	\$ 312,867
TOTAL CAPITAL OUTLAYS	<u>1,108,790</u>	<u>887,950</u>	<u>312,867</u>
<u>DEBT SERVICE AND MISCELLANEOUS*</u>			
(4800) Bond Principal Payments	16,430,000	15,580,000	18,995,000
(4810) Interest on Long-Term Debt	15,785,120	14,674,200	14,594,062
(4830) Paying Agent Fees	<u>12,000</u>	<u>26,000</u>	<u>1,482</u>
TOTAL DEBT SERVICE AND MISCELLANEOUS	<u>32,227,120</u>	<u>30,280,200</u>	<u>33,590,544</u>
GRAND TOTAL	<u>\$ 58,077,710</u>	<u>\$ 54,352,130</u>	<u>\$ 56,087,461</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 REVENUE WORKSHEET

<u>CONTRACT REVENUE</u>	<u>PROPOSED 2003 BUDGET</u>
Operation & Maintenance	
Total Expenditures	\$ 25,862,590.00
Less Other Revenue Sources:	
Inter-Fund Services & Charges	(414,340.00)
Operating Overhead	(417,170.00)
Professional Fees	(450,000.00)
Pretreatment Revenue	(22,000.00)
Commodity Charge	(51,810.00)
Miscellaneous Income	(268,440.00)
Overstrength Surcharge	(600,000.00)
Zone B & Quantity Surcharge	<u>(36,800.00)</u>
Total Other Revenue Sources	<u>(2,260,560.00)</u>
Net Operation and Maintenance to be to Billed Monthly	23,602,030.00
Debt Service	
Principal on Bonds:	
Due 8/01/2003: 16,430,000.00 x 8/12	10,953,333.33
Due 8/01/2004: 17,455,000.00 x 4/12	5,818,333.33
Interest on Bonds:	
Due 2/01/2003: 8,029,566.88 x 2/6	2,676,522.29
Due 8/01/2003: 8,029,566.88 x 6/6	8,029,566.88
Due 2/01/2004: 7,618,553.75 x 4/6	5,079,035.83
Rounding	1.24
Less: Interest Income	<u>(1,544,900.00)</u>
Net Debt Service to Billed Monthly	<u>31,011,892.91</u>
 TOTAL CONTRACT REVENUE	 <u>\$ 54,613,922.91</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3010) CONTRACT REVENUE - IRVING</u>			
(1106.3010) Operation & Maintenance			
\$23,602,030 x 19.148%	\$ 4,519,316.70		
(1108.3010) Debt Service			
\$31,011,893 x 19.148%	5,938,157.26		
Rounding	<u>(3.96)</u>		
Total Annual Requirement		\$ 10,457,470	\$ 10,394,930
<u>(3020) CONTRACT REVENUE - GRAND PRAIRIE</u>			
(1106.3020) Operation & Maintenance			
\$23,602,030 x 11.116%	2,623,601.65		
(1108.3020) Debt Service			
\$31,011,893 x 11.116%	3,447,282.02		
Rounding	<u>(3.67)</u>		
Total Annual Requirement		6,070,880	5,615,960
<u>(3030) CONTRACT REVENUE - ARLINGTON</u>			
(1106.3030) Operation & Maintenance			
\$23,602,030 x 30.276%	7,145,750.60		
(1108.3030) Debt Service			
\$31,011,893 x 30.276%	9,389,160.70		
Rounding	<u>(1.30)</u>		
Total Annual Requirement		16,534,910	14,234,030
<u>(3040) CONTRACT REVENUE - FARMERS BRANCH</u>			
(1106.3040) Operation & Maintenance			
\$23,602,030 x 4.462%	1,053,122.58		
(1108.3040) Debt Service			
\$31,011,893 x 4.462%	1,383,750.66		
Rounding	<u>(3.23)</u>		
Total Annual Requirement		2,436,870	2,321,410
<u>(3050) CONTRACT REVENUE - DALLAS</u>			
(1106.3050) Operation & Maintenance			
\$23,602,030 x 5.661%	1,336,110.92		
(1108.3050) Debt Service			
\$31,011,893 x 5.661%	1,755,583.26		
Rounding	<u>(4.18)</u>		
Total Annual Requirement		3,091,690	2,598,730

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3060) CONTRACT REVENUE - EULESS</u>			
(1106.3060) Operation & Maintenance			
\$23,602,030 x 2.847%	\$ 671,949.79		
(1108.3060) Debt Service			
\$31,011,893 x 2.847%	882,908.59		
Rounding	<u>1.61</u>		
Total Annual Requirement		\$ 1,554,860	\$ 1,420,380
<u>(3070) CONTRACT REVENUE - CARROLLTON</u>			
(1106.3070) Operation & Maintenance			
\$23,602,030 x 7.992%	1,886,274.24		
(1108.3070) Debt Service			
\$31,011,893 x 7.992%	2,478,470.48		
Rounding	<u>(4.72)</u>		
Total Annual Requirement		4,364,740	4,192,560
<u>(3080) CONTRACT REVENUE - D/FW AIRPORT</u>			
(1106.3080) Operation & Maintenance			
\$23,602,030 x 1.539%	363,235.24		
(1108.3080) Debt Service			
\$31,011,893 x 1.539%	477,273.03		
Rounding	<u>1.73</u>		
Total Annual Requirement		840,510	800,190
<u>(3090) CONTRACT REVENUE - BEDFORD</u>			
(1106.3090) Operation & Maintenance			
\$23,602,030 x 3.130%	738,743.54		
(1108.3090) Debt Service			
\$31,011,893 x 3.130%	970,672.25		
Rounding	<u>4.21</u>		
Total Annual Requirement		1,709,420	1,616,520
<u>(3100) CONTRACT REVENUE - COPPELL</u>			
(1106.3100) Operation & Maintenance			
\$23,602,030 x 2.597%	612,944.72		
(1108.3100) Debt Service			
\$31,011,893 x 2.597%	805,378.86		
Rounding	<u>(3.58)</u>		
Total Annual Requirement		1,418,320	1,282,220

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3110) CONTRACT REVENUE - COLLEYVILLE</u>			
(1106.3110) Operation & Maintenance \$23,602,030 x 1.683%	\$ 397,222.16		
(1108.3110) Debt Service \$31,011,893 x 1.683%	521,930.16		
Rounding	(2.32)		
Total Annual Requirement		\$ 919,150	\$ 879,860
<u>(3120) CONTRACT REVENUE - FORT WORTH</u>			
(1106.3120) Operation & Maintenance \$23,602,030 x 0.911%	215,014.49		
(1108.3120) Debt Service \$31,011,893 x 0.911%	282,518.34		
Rounding	(2.84)		
Total Annual Requirement		497,530	439,170
<u>(3130) CONTRACT REVENUE - GRAPEVINE</u>			
(1106.3130) Operation & Maintenance \$23,602,030 x 1.279%	301,869.96		
(1108.3130) Debt Service \$31,011,893 x 1.279%	396,642.11		
Rounding	(2.07)		
Total Annual Requirement		698,510	824,390
<u>(3140) CONTRACT REVENUE - MANSFIELD</u>			
(1106.3140) Operation & Maintenance \$23,602,030 x 2.165%	510,983.95		
(1108.3140) Debt Service \$31,011,893 x 2.165%	671,407.48		
Rounding	(1.43)		
Total Annual Requirement		1,182,390	1,125,920
<u>(3150) CONTRACT REVENUE - HURST</u>			
(1106.3150) Operation & Maintenance \$23,602,030 x 0.135%	31,862.74		
(1108.3150) Debt Service \$31,011,893 x 0.135%	41,866.06		
Rounding	1.20		
Total Annual Requirement		73,730	63,530

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3160) CONTRACT REVENUE - NORTH RICHLAND HILLS</u>			
(1106.3160) Operation & Maintenance			
\$23,602,030 x 0.468%	\$ 110,457.50		
(1108.3160) Debt Service			
\$31,011,893 x 0.468%	145,135.66		
Rounding	(3.16)		
Total Annual Requirement		\$ 255,590	\$ 195,640
<u>(3170) CONTRACT REVENUE - DUNCANVILLE</u>			
(1106.3170) Operation & Maintenance			
\$23,602,030 x 0.133%	31,390.70		
(1108.3170) Debt Service			
\$31,011,893 x 0.133%	41,245.82		
Rounding	3.48		
Total Annual Requirement		72,640	69,080
<u>(3180) CONTRACT REVENUE - KELLER</u>			
(1106.3180) Operation & Maintenance			
\$23,602,030 x 1.608%	379,520.64		
(1108.3180) Debt Service			
\$31,011,893 x 1.608%	498,671.24		
Rounding	(1.88)		
Total Annual Requirement		878,190	836,500
<u>(3190) CONTRACT REVENUE - SOUTHLAKE</u>			
(1106.3190) Operation & Maintenance			
\$23,602,030 x 1.132%	267,174.98		
(1108.3190) Debt Service			
\$31,011,893 x 1.132%	351,054.63		
Rounding	0.39		
Total Annual Requirement		618,230	586,910
<u>(3200) CONTRACT REVENUE - CEDAR HILL</u>			
(1106.3200) Operation & Maintenance			
\$23,602,030 x 0.200%	47,204.06		
(1108.3200) Debt Service			
\$31,011,893 x 0.200%	62,023.79		
Rounding	2.15		
Total Annual Requirement		109,230	84,710

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(3210) CONTRACT REVENUE - ADDISON</u>			
(1106.3210) Operation & Maintenance			
\$23,602,030 x 1.518%	\$ 358,278.82		
(1108.321) Debt Service			
\$31,011,893 x 1.518%	470,760.53		
Rounding	<u>0.65</u>		
Total Annual Requirement		\$ 829,040	\$ 839,020
<u>(1106.3380) INTER-FUND SERVICES & CHARGES</u>			
Clean Rivers Program (TNRCC)	70,000.00		
Ten Mile Creek	193,360.00		
Denton Creek	36,600.00		
Red Oak Creek	11,100.00		
Tarrant County	35,500.00		
Walker-Calloway Branches	21,000.00		
Mountain Creek	16,680.00		
Northeast Lakeview	5,100.00		
Joe Pool Lake	<u>25,000.00</u>		
Total Annual Requirement		414,340	-
<u>(1106.3390) OPERATING OVERHEAD - OTHER PROJECTS</u>			
DCURD #1	356,390.00		
Ten Mile Creek	19,520.00		
Denton Creek	9,260.00		
Red Oak Creek	3,920.00		
Tarrant County	<u>28,080.00</u>		
Total Annual Requirement		417,170	693,190
<u>(1106.3980) PROFESSIONAL FEES</u>		450,000	450,000
<u>(1108.3810) INTEREST INCOME - I & S</u>		229,600	489,580
<u>(1108.3820) INTEREST INCOME - RESERVE FUND</u>		1,147,800	1,416,420
<u>(110.8.3840) INTEREST INCOME - REVENUE FUND</u>		123,500	336,320
<u>(1108.3870) INTEREST INCOME - EMERGENCY FUND</u>		44,000	93,030
<u>(1106.3400) OVERSTRENGTH SURCHARGE</u>		600,000	600,000
<u>(1106.3410) NORTHEAST LAKEVIEW LIFT STATION</u>		-	14,650
<u>(1106.3430) PRETREATMENT REVENUE</u>		22,000	22,000
<u>(1106.3440) COMMODITY CHARGE</u>		51,810	51,810
<u>(1106.3480) QUANTITY SURCHARGE</u>			
City of Addison		36,800	36,800
<u>(1106.3990) MISCELLANEOUS INCOME</u>		268,440	10,000

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Salaries Under the Salary Administration Plan for the Following:		
Manager, Central Regional Wastewater System	1	
Maintenance Engineer	1	
Sub-Total	2	
Manager, System Operation	1	
Operations Division Chief	2	
Chief Operator	8	
Senior Operator	7	
Operator II	17	
Operator I	7	
Maintenance Division Chief	2	
Chief Maintenance Mechanic	6	
Senior Maintenance Mechanic	20	
Maintenance Mechanic II	11	
Maintenance Mechanic I	2	
E/E Division Chief	1	
Chief Electrician	1	
Chief Electronic Technician	1	
Senior Electrician	2	
Senior Electronic Technician	3	
Electronic Technician II	1	
Electrician II	3	
Senior HVAC Technician	1	
Process Maint Planner/Scheduler	0	
Information Systems Technician	0	
Process Systems Automation Engineer	1	
Sub-Total	97	

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Manager, Technical Services	1	
Laboratory Division Chief	1	
Laboratory Supervisor	3	
Quality Assurance Coordinator	1	
Senior Biologist	2	
Senior Chemist	5	
Biologist	7	
Chemist	2	
Laboratory Technician II	2	
Laboratory Technician I	1	
Laboratory Technician/Bookkeeper	0	
Technical Services Engineer	1	
Environmental Services Coordinator	1	
Interceptor System Specialist	2	
Chief Maintenance Mechanic	1	
Senior Maintenance Mechanic	3	
Maintenance Mechanic II	4	
Chief Electronic Technician (Instrument Technician)	1	
Senior Electronic Technician (Instrument Technician)	1	
Electronic Technician II (Instrument Technician)	3	
Senior Secretary	1	
Field Technician II	1	
Sub-Total	44	
Manager, Administrative Services	1	
Office Coordinator	1	
Senior Secretary	5	
Accounting Clerk	1	
Training Coordinator	1	
Sub-Total	9	
Purchasing/Warehouse		
Purchase/Warehouse Supervisor	1	
Buyer	2	
Assistant Buyer	1	
Senior Storekeeper	2	
Senior Secretary	1	
Sub-Total	7	
Total Project Positions W/O Pretreatment	159	

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2003
CENTRAL REGIONAL WASTEWATER SYSTEM
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>NUMBER OF EMPLOYEES</u>	<u>BUDGET AMOUNT</u>
Total Project Base Salaries w/Shift Diff		\$ 5,903,629
Total Project Holiday and Overtime Pay		284,781
Rounding		
Total Project Salaries		6,188,410
Pretreatment		
Pretreatment Coordinator	1	
Senior Secretary	1	
Environmental Inspector	3	
Senior Field Technician	2	
Field Technician II	<u>1</u>	
Total Pretreatment Positions	8	
Total Pretreatment Base Salaries w/Shift Diff		268,506
Total Pretreatment Holiday and Overtime Pay		<u>8,974</u>
Rounding		
Total Pretreatment Salaries		277,480
Total FY 2003 Budgeted Positions	<u>167</u>	
Total FY 2003 Budgeted Salaries		<u>\$ 6,465,890</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4000) SALARIES - REGULAR</u>			
(01) PROJECT			
157 Employees	\$ 6,151,040.00		
(01) PRETREATMENT			
8 Employees	<u>277,480.00</u>		
Total Salaries - Regular		\$ 6,428,520	\$ 6,251,780
<u>(1106.4010) SALARIES - PART-TIME</u>			
		37,370	-
<u>(1106.4020) PAYROLL TAXES - FICA</u>			
(01) PROJECT			
\$ 6,188,410.00 x 7.65%	= 473,413.37		
(01) PRETREATMENT			
\$ 277,480.00 x 7.65%	= 21,227.22		
Rounding	<u>(0.59)</u>		
Total Payroll Taxes - Fica		494,640	478,260
<u>(1106.4030) EMPLOYEE BENEFIT - HEALTH/LIFE INSURANCE</u>			
PROJECT			
(01) Health			
\$ 223.70 X 109 X 12		292,599.60	
\$ 352.62 X 7 X 12		29,620.08	
\$ 306.03 X 11 X 12		40,395.96	
\$ 399.19 X 18 X 12		86,225.04	
Provision for increase 25%		112,210.17	
(02) Life Insurance/AD&D:		34,274.00	
(03) Long Term Disability:		22,863.00	
(04) Employee Assistance Program:		4,770.00	
PRETREATMENT			
(01) Health			
\$ 223.70 X 7 X 12		18,790.80	
\$ 352.62 X 0 X 12		-	
\$ 306.03 X 0 X 12		-	
\$ 399.19 X 1 X 12		4,790.28	
Provision for increase 25%		5,895.27	
(02) Life Insurance:		1,548.00	
(03) Long Term Disability:		1,027.00	
(04) Employee Assistance Program:		240.00	
rounding	<u>0.80</u>		
Total Emp. Ben. - Health/Life Insurance		655,250	411,770

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4040) EMPLOYEE BENEFIT - PENSION</u>			
(01)PROJECT	\$ 708,440.00		
(01) PRETREATMENT	32,220.00		
Total Emp. Ben. - Pension		\$ 740,660	\$ 715,800
<u>(1106.4060) UNEMPLOYMENT COMPENSATION</u>			
(01) PROJECT	19,300.00		
(01) PRETREATMENT	700.00		
Total Unemployment Compensation		20,000	20,000
<u>(1106.4070) EMPLOYEE RECOGNITION PROGRAM</u>			
(01) PROJECT			
Service Awards	\$ 16,280.00		
(01) PRETREATMENT	-		
Total Employee Recognition Program		16,280	15,260
<u>(1106.4080) EMPLOYEE BENEFIT - EDUCATION</u>			
(01) PROJECT	6,200.00		
(01) PRETREATMENT	800.00		
Total Employee Benefit - Education		7,000	9,000
Total Personal Services		8,399,720	7,423,610
<u>(1106.4100) OFFICE SUPPLIES</u>			
PROJECT			
(01) Consumables	16,600.00		
(02) Non-Consumables	9,150.00		
(03) Computer/Copier Supplies	14,500.00		
(05) Vending and Lunchroom Supplies	8,000.00		
PRETREATMENT			
(01) Consumables	300.00		
(02) Non-Consumables	500.00		
(03) Computer/Copier Supplies	1,000.00		
(05) Vending and Lunchroom Supplies	150.00		
Total Office Supplies		50,200	51,200
<u>(1106.4110) DUES & SUBSCRIPTIONS</u>			
PROJECT			
(01) Professional/Technical Memberships			
AMSA/AWWA	12,000.00		
American Society for Human Resources	390.00		
American Water Resource Association	250.00		
Chlorine Institute	700.00		
Natl Assoc of Purchasing Managers	700.00		
Nat Safety Council/TX Safety Association	210.00		
TX Water Utilities Association	700.00		
WEF/WEAT	1,520.00		
WERF	34,000.00		
(02) Periodicals/Magazines/Newspapers	2,800.00		
(03) Reference Books	1,400.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
PRETREATMENT			
(01) Professional/Technical Memberships AMSA/AWWA	\$ 210.00		
(03) Reference Books	970.00		
Total Dues and Subscriptions		\$ 55,850	\$ 54,860
<u>(1106.4120) FEES OTHER THAN DUES & SUBSCRIPTIONS</u>			
PROJECT:			
(01) Certification Fees	\$ 5,400.00		
(02) TNRCC WW Inspect & WQA Fees	75,000.00		
(05) TNRCC Sludge Fee	100.00		
(06) Tier Two Fees	10.00		
PRETREATMENT			
(01) Certification Fees	400.00		
Total Fees Other Than Dues & Subscriptions		80,910	86,910
<u>(1106.4130) MAINTENANCE AND OPERATING SUPPLIES</u>			
PROJECT			
(01) Repair/Replacement of Hand Tools	25,300.00		
(02) Operational Supplies	17,000.00		
(03) Maintenance Supplies	27,000.00		
(04) Ground Care Supplies	13,000.00		
(05) Janitorial and Cleaning Supplies	6,000.00		
(06) Electrical Supplies	28,000.00		
(07) Facilities Supplies	15,000.00		
(08) Protective/Safety Equipment	35,000.00		
PRETREATMENT			
(01) Repair/Replacement of Hand Tools	280.00		
(02) Operational Supplies	150.00		
(05) Janitorial and Cleaning Supplies:	200.00		
Total Maintenance and Operating Supplies		166,930	146,590
<u>(1106.4140) LAB SUPPLIES</u>			
PROJECT			
(01) Gases	13,000.00		
(02) Water System	4,000.00		
(03) Bacti-Filters, Media and Supplies	60,000.00		
(04) AA, ICP, and IR Supplies	5,000.00		
(05) Gas Chromatog Supplies	13,000.00		
(06) TOC and MCTS-10 Supplies	3,000.00		
(07) Lab Apparatus	22,000.00		
(08) Chemical Reagents	63,000.00		
(09) Glassware, Plastics, and Disposables	55,000.00		
(10) Filters, Glass Fiber, Prefilters and Membrant	20,000.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4140) LAB SUPPLIES (Continued)</u>			
PRETREATMENT			
(11) Field Sampling Supplies	1,000.00		
(12) Operational Supplies	5,000.00		
(13) Nuclear Sources - Wipe Test & Refoil	300.00		
(14) Other - Freight and Shipping	1,000.00		
(07) Lab Apparatus	850.00		
(08) Chemical Reagents and Standards	500.00		
(09) Glassware, Plastics, and Disposables	2,900.00		
(11) Field Sampling Supplies	10,500.00		
(14) Other - Freight and Shipping	300.00		
Total Lab Supplies		\$ 280,350	\$ 273,350
<u>(1106.4150) PROCESS CHEMICALS AND SUPPLIES</u>			
PROJECT			
(01) Lime	1,107,278.00		
(02) Ferric Chloride	251,328.00		
(03) Chlorine	292,500.00		
(04) Polymer	476,784.00		
(05) Hydrochloric Acid	5,000.00		
(06) Sodium Hydroxide	8,000.00		
(07) Citric Acid	500.00		
(08) Filter Cloths	68,000.00		
(09) Tie Wraps, Bags, Sludge Judges, Etc.	7,000.00		
(10) Taste/Odor Control	150,000.00		
(11) Boiler Chemicals	2,000.00		
(12) Sulfur Dioxide	155,610.00		
Total Process Chemicals and Supplies		2,524,000	2,421,900
<u>(1106.4160) FUEL, OIL, AND LUBRICANTS</u>			
PROJECT			
(01) Gasoline	35,770.00		
(02) Diesel Fuel	19,000.00		
(03) Solvents/Cleaners	12,000.00		
(04) Anti-Freeze	1,880.00		
(05) Grease	5,450.00		
(06) Lubricants	25,000.00		
(07) Propane	250.00		
PRETREATMENT			
(01) Gasoline	4,000.00		
(04) Anti-Freeze	30.00		
(05) Grease	50.00		
(06) Lubricants	200.00		
Total Fuel, Oil, and Lubricants		103,630	104,440

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4170) COMPUTER SOFTWARE, LICENSES & INSTRUMENT SUPPLIES</u>			
PROJECT			
(01) Metering Supplies	\$ 13,000.00		
(02) Instrument Repair	16,000.00		
(03) Drafting/Engineering Supplies	5,000.00		
(04) Line Surveillance	3,000.00		
(05) FM Telemetry	2,000.00		
(06) Metering Electrical Repairs	5,000.00		
(07) G/L, HR & PR Software	250,080.00		
PRETREATMENT			
(01) Metering Supplies	150.00		
(02) Instrument Repair	300.00		
Total Computer and Instrument Supplies		\$ 294,530	\$ 37,950
Total Supplies		3,556,400	3,177,200
<u>(1106.4200) AUDITING</u>			
(01) Audit		37,500	36,000
<u>(1106.4210) ENGINEERING</u>			
PROJECT			
(01) Engineering Studies	83,090.00		
(02) I/I Prorations	80,000.00		
(03) Triennial Report/Annual Update	25,000.00		
(04) Pipeline Repairs/Erosion Control	35,000.00		
Total Engineering		223,090	160,000
<u>(1106.4220) LEGAL</u>			
(01) Legal		20,000	20,000
<u>(1106.4230) OUTSIDE SERVICES</u>			
PROJECT			
(01) Advertising	60,000.00		
(02) Graphics, Displays, Etc.	7,000.00		
(03) Construction Services Charges	50,000.00		
(04) Security Monitoring/Support	17,560.00		
(05) Solid Waste Disposal (Odor Control)	34,000.00		
(06) Contract Labor	10,000.00		
(07) PC/Network/SCADA Support	373,680.00		
(08) Software Maintenance - G/L, HR & PR	90,000.00		
PRETREATMENT			
(01) Advertising	1,150.00		
(02) Graphics, Displays, Etc.	200.00		
(06) Contract Labor	1,000.00		
Total Outside Services		644,590	335,620

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4240) OTHER PROFESSIONAL SERVICES</u>			
PROJECT			
(01) Drug Testing	\$ 10,000.00		
(02) U.S.G.S Payments	26,500.00		
(03) Motor Vehicle Reports	1,200.00		
(04) Outside Testing - Laboratory	86,000.00		
(05) Custodian Fees	52,000.00		
(06) NEXRAIN Studies	20,000.00		
PRETREATMENT			
(01) Drug Testing	-		
(04) Outside Testing - Laboratory	<u>2,000.00</u>		
Total Other Professional Services		\$ 197,700	\$ 175,650
<u>(1106.4300) TELEPHONE & TELEMETERING</u>			
PROJECT			
(01) Telephone/Telemetry	28,000.00		
(02) Pagers	5,400.00		
(03) Mobile Telephones (62)	41,640.00		
(04) Internet Access	10,820.00		
PRETREATMENT			
(01) Telephone/Telemetry	1,000.00		
(02) Pagers	360.00		
(03) Mobile Telephones (7)	<u>3,840.00</u>		
Total Telephone & Telemetry		91,060	106,570
<u>(1106.4310) POSTAGE</u>			
PROJECT			
(01) Postage Meter	3,300.00		
(02) Stamps/Shipping	4,500.00		
PRETREATMENT			
(01) Postage Meter	500.00		
(02) Stamps/Shipping	<u>220.00</u>		
Total Postage		8,520	8,220
<u>(1106.4320) PRINTING AND BINDING</u>			
PROJECT			
(01) Special Forms	3,550.00		
(02) Letterhead, Envelopes, and Stationary	3,200.00		
(03) Manuals, Handbooks, Etc.	3,000.00		
PRETREATMENT			
(01) Special Forms	950.00		
(02) Letterhead, Envelopes, and Stationary	<u>310.00</u>		
Total Printing and Binding		11,010	12,730

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4330) INSURANCE PAYMENTS</u>			
PROJECT			
(01) Fire	\$ 81,550.00		
(02) General Liability	15,750.00		
(03) Automobile	26,390.00		
(04) Contractor Equipment	-		
(05) Workers' Compensation	136,440.00		
(06) Director/Officer's Liability	17,050.00		
(07) Blanket Bond	1,490.00		
(08) Equipment Floater	<u>8,760.00</u>		
 Total Insurance Payments		\$ 287,430	\$ 179,420
<u>(1106.4360) TRAVEL</u>			
PROJECT			
(01) CRWS Employees on Authority Business	15,550.00		
(02) Others on Authority Business	750.00		
PRETREATMENT			
(01) CRWS Employees on Authority Business	3,000.00		
(02) Others on Authority Business	<u>-</u>		
 Total Travel		19,300	16,500
<u>(1106.4370) LAUNDRY, UNIFORM & IND. EQUIP.</u>			
PROJECT			
(01) Uniform Rental	38,770.00		
(03) Patches/Hats	650.00		
(04) Towels, Mops, Mats	9,000.00		
PRETREATMENT			
(01) Uniform Rental	<u>650.00</u>		
 Total Laundry, Uniform, & Ind. Equip.		49,070	44,350
<u>(1106.4380) TRAINING</u>			
PROJECT			
(01) Training			
Wastewater Certification Training	11,900.00		
Safety Training	11,920.00		
Technical Training	23,320.00		
Enhanced Skills/Supervisory Training	9,450.00		
Training Manuals/Videos	8,410.00		
Purchasing Certification Classes	3,000.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
PRETREATMENT			
(01) Training			
Wastewater Certification Training	600.00		
Safety Training	600.00		
Technical Training	1,180.00		
Enhanced Skills/Supervisory Training	-		
Training Manuals/Videos	220.00		
Total Training		\$ 70,600	\$ 111,940
<u>(1106.4400) UTILITIES</u>			
PROJECT			
(01) Natural Gas	85,000.00		
(02) Water	35,000.00		
Total Utilities		120,000	105,000
<u>(1106.4420) POWER</u>			
(01) Power		4,553,480	4,832,800
<u>(1106.4430) R & M - COLLECTION SYSTEM</u>			
PROJECT			
(01) Meter Station Structure Rehabilitation	20,000.00		
(02) Manhole/Junction Box Rehabilitation	21,000.00		
(03) System Repairs/Line Cleaning/TV	317,750.00		
(04) Lift Station/ROW Maintenance	11,000.00		
Total R & M - Collection System		369,750	245,000
<u>(1106.4440) R & M - EQUIPMENT</u>			
PROJECT			
(01) Shop Equipment	4,000.00		
(02) Dumpsters	5,400.00		
(03) Compressors and Generators	4,500.00		
(04) Fuel Powered and Electrical Equipment	11,200.00		
(05) Office and Video Equipment	5,100.00		
(06) Analytical Equip Repair - Non Contract	29,000.00		
(07) Service Contracts- Analytical Equipment	10,000.00		
(08) Perkins-Elmer Equipment	14,000.00		
(09) Mowers/Tractors	12,000.00		
(10) Tracked Vehicles & Heavy Equipment	55,000.00		
(11) Carts	1,000.00		
(12) Heavy Trucks	50,000.00		
(13) Trailers	15,000.00		
(15) Tire Repair	3,000.00		
(16) High Pressure Units	1,000.00		
(17) Forklifts	3,000.00		
Total R & M - Equipment		223,200	218,300

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4450) R & M - PLANT AND BUILDINGS</u>			
PROJECT			
(01) Packing and Seals	\$ 15,000.00		
(02) Road Repair Materials	30,000.00		
(03) Machine Shop Stock	5,000.00		
(04) Mechanical Plating and Coating	28,000.00		
(05) Clarifiers, Aeration, Equalization Basins	25,000.00		
(06) Specialized Balancing and Machining	5,000.00		
(07) Valves, Valve Operators, Pipe, Etc.	40,000.00		
(08) Positive Displacement Pumps/Repairs	125,000.00		
(09) Filter Press Parts	24,000.00		
(10) Pump Repair, Pump Parts, Machining	130,000.00		
(11) Conveyer System Parts	22,000.00		
(12) Industrial Air/Oil Filters	4,000.00		
(13) Power Transmission Parts/Repairs	40,000.00		
(14) Building/Structural Repair	15,000.00		
(15) Chlorination/Dechlorination	15,000.00		
(16) Railroad Repairs	21,000.00		
(17) Stormwater Regulations - Street Cleaning	9,600.00		
(18) Blower Parts/Repairs	39,000.00		
(19) Crane Inspection & Servicing	17,000.00		
(20) Anaerobic Digester Clean/Rehab	<u>120,000.00</u>		
 Total R & M - Plant and Buildings		\$ 729,600	\$ 777,350
<u>(1106.4460) R & M - VEHICLES</u>			
PROJECT			
(01) Automobiles	5,000.00		
(02) Pickup Trucks	28,000.00		
(03) Tire Repair	6,400.00		
(04) Other- Batteries, Wiper Blades, etc.	2,000.00		
PRETREATMENT			
(02) Pickup Trucks	1,500.00		
(03) Tire Repair	<u>600.00</u>		
 Total R & M - Vehicles		43,500	40,400

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4480) R & M - ELECTRICAL</u>			
PROJECT			
(01) Components	\$ 30,000.00		
(02) Signal Cable and Wire	6,000.00		
(03) Electronic Equipment Repair	69,000.00		
(04) Repairs of Pneumatic Systems	1,000.00		
(05) FM Telemetry	2,000.00		
(06) Computer Maintenance	30,000.00		
(07) Vendor Service/Repair	50,000.00		
(08) Calibration	5,000.00		
(09) Electrical Parts & Materials	150,000.00		
(10) Motor Overhaul	100,000.00		
(11) HVAC Parts and Repair	138,000.00		
(12) Elevator Repair and Service	5,000.00		
(13) Cathodic Test	<u>1,000.00</u>		
 Total R & M - Electrical		\$ 587,000	\$ 510,150
<u>(1106.4490) OFF-SITE BIOSOLID LAND APPLICATION</u>			
(02) Beneficial Reuse		2,665,190	2,534,140
<u>(1106.4510) RENT - MACHINERY & EQUIPMENT</u>			
PROJECT			
(01) Cranes and Other Heavy Equipment	15,000.00		
(02) Compressors and Special Equipment	14,000.00		
(03) Postage Meter	1,500.00		
(04) Tool Rental	1,000.00		
(05) Copier Rental	36,020.00		
(07) Cylinder Rental	8,000.00		
(08) Other Rental	<u>4,000.00</u>		
 Total Rent - Machinery & Equipment		79,520	88,810
<u>(1106.4660) ADMINISTRATIVE OVERHEAD</u>			
PROJECT			
(01) Related Cost Method Allocation		1,754,570	1,545,960
 Total Other Services and Charges		12,785,680	12,104,910

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1106.4760) MACHINERY & EQUIPMENT</u>			
(01)PROJECT-Replacement:			
(1) Sedan	\$ 17,000.00		
(1) Reception Area Sofa	1,500.00		
(2) Reception Area Chairs	750.00		
(2) Reception Area Tables	750.00		
(2) Compact Trucks	24,000.00		
(3) MCC/PLC Cabinet-5 Ton Spot Coolers	30,000.00		
(1) 2300 Volt Power Dist. Transformer PS#6	10,000.00		
(1) Process Control Signal Controller Software	2,750.00		
(4) Portable Laptop Programmers	7,000.00		
(1) Laser Jet Color Printer	3,500.00		
(4) Heavy Duty Infrared Heaters	4,000.00		
(1) Boom Truck	180,000.00		
(1) Tractor	40,000.00		
(1) Sludge Hauling Trailer	28,000.00		
(1) Hot Water Pressure Washer	7,000.00		
(1) Inductively Coupled Plasma Spectrophotor	150,000.00		
(1) Laboratory Distillation System	22,000.00		
(1) Heated Graphite Atomic Absorption Unit	62,000.00		
(1) Microbiological Heat Sealing Unit	2,000.00		
(6) Ultra Sonic Flow Meters	9,600.00		
(2) Portable Area/Velocity Flow Meters	6,200.00		
(1) Global Position System (GPS/GIS) Instr.	20,000.00		
(1) Truck Camper	1,650.00		
(1) 3/4 Ton 4X4 Truck	24,000.00		
(1) 12 inch Pipe Saw	1,800.00		
(2) Truck Winches	<u>2,200.00</u>		
		\$ 657,500	\$ 704,550
PRETREATMENT- Replacement:			
(1) Cont. pH & Temp Module/Data Recorder	<u>2,290.00</u>	2,290	38,000

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
(02) PROJECT- New:			
(3) Portable Gas Detectors	\$ 5,700.00		
(1) 2-Way Emerg. Response Radio Interface	4,000.00		
(1) 30 Cubic Yard Dumpster	4,500.00		
(2) 3 inch Portable 13HP Gas-Driven Pumps	5,000.00		
(2) Bar Screen Lubrication System	6,000.00		
(1) Gate Valve Portable Power Drive	1,300.00		
(4) Electronic Equipment Cabinets	8,000.00		
(1) Fiber Cable Termination Kit	2,750.00		
(1) Teleconferencing Equipment	19,900.00		
(1) Network Performance Analyzer Software	1,850.00		
(1) Trailer Axle Assembly	14,000.00		
(1) Gasoline Hand Auger	2,400.00		
(1) Vactor/Rodder Decant Pump	5,200.00		
(4) 2-Way Radio Noise Reduced Headsets	5,600.00		
(1) Portable H2S Monitors & Recorders	5,600.00		
(1) Confined Space Fall Arrestor	2,400.00		
(1) Confined Space Manlift	2,300.00		
(1) Portable Diesel Light Standard	7,500.00		
Electronic Surveillance Equipment	288,400.00		
(1) Vactor/Rodder Easement Reel Assembly	<u>32,000.00</u>		
		\$ 424,400	\$ 145,400
PRETREATMENT- New			
(1) Utility Vehicle	23,000.00		
(1) Camper for Utility Vehicle	<u>1,600.00</u>		
		<u>24,600</u>	
Total Machinery and Equipment		1,108,790	887,950

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2003
 CENTRAL REGIONAL WASTEWATER SYSTEM
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>PROPOSED DETAIL</u>	<u>PROPOSED 2003 BUDGET</u>	<u>CURRENT 2002 BUDGET</u>
<u>(1108.4800) BOND PRINCIPAL PAYMENTS</u>			
Due 8/01/2003:			
Series 1993	10,245,000.00		
Series 1995	1,855,000.00		
Series 1998A	2,220,000.00		
Series 1998B	2,105,000.00		
Series 2001	<u>5,000.00</u>		
Total Bond Principal Payments		\$ 16,430,000	\$ 15,580,000
<u>(1108.4810) INTEREST ON LONG TERM-DEBT</u>			
Due 2/01/2003:			
Series 1993	4,098,594.38		
Series 1995	262,951.25		
Series 1998A	833,566.25		
Series 1998B	1,408,403.75		
Series 2001	1,426,051.25		
Due 8/01/2003:			
Series 1993	4,098,594.38		
Series 1995	262,951.25		
Series 1998A	833,566.25		
Series 1998B	1,408,403.75		
Series 2001	1,426,051.25		
Adjustment for Accrual	<u>(274,013.76)</u>		
Total Bond Interest Payments		15,785,120	14,674,200
<u>(1108.4830) PAYING AGENT FEES</u>			
		12,000	26,000
Total Debt Service		32,227,120.00	30,280,200.00

TRA Meeting

8-13-02

Budget Workshop Aug 26th

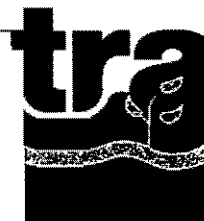
Sept
Irving

25-30 mgd effluent - new water supply to
the basin

"Developed Water" - want rights to reuse
this water.

TNRCC allows 100% "Direct" reuse (thru a pipeline)
If water is put into the stream - a reuse
application to appropriate the water back





Northern Region Office

August 31, 2001

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

NOTICE – Tuesday, September 11, 2001, 11 a.m.
MEETING PLACE – Central Regional Wastewater Treatment Plant
6500 West Singleton Blvd, Grand Prairie, Texas

A meeting of the Central Regional Wastewater System Advisory Committee has been scheduled for 11 a.m., Tuesday, September 11, 2001, at the **Central Regional Wastewater Treatment Plant In Grand Prairie, at 6500 West Singleton Blvd.** Lunch will be served immediately following the meeting. Please RSVP to Cheryl Abbott before Monday, September 10, 2001, at 817-493-5100 or abbottc@trinityra.org.

The purpose of this meeting will be the recommendation of the proposed FY 2002 System Operations and Maintenance Budget for approval by the Authority's Board of Directors at their October meeting. A Budget Workshop was held on Thursday, August 23, 2001, and we believe all questions raised in the workshop have been answered.

We have enclosed an Agenda and minutes of the August 10, 2001, meeting for your review prior to the September 11th meeting. We encourage each party served by the System to send a representative to this meeting.

Warren N. Brewer

WARREN N. BREWER
Regional Manager
Northern Region

WNB/cea

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations
Bill Tatum, Manager, CRWS



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

AGENDA
CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
TUESDAY, SEPTEMBER 11, 2001, 11 A.M.

I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Elzie Odom	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Bill Lindley	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Terrace Stewart	_____
D/FW Airport	Mr. Thomas M. Dunning	_____
Duncanville	Mr. Kent Cagle	_____
Eules	Councilmember Glenn Porterfield	_____
Farmers Branch	Councilmember Paul Walden	_____
Fort Worth	Mr. Dale Fisseler	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Councilmember Lewis Patrick	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Blake Evans	_____
N. Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Mr. Danny F. Vance	_____
	Director Wanda Stovall	_____
	Director Hector Escamilla, Jr.	_____

III. Introduction of Guests, Consultants and Authority Staff

IV. Approval of Minutes of the August 10, 2001 Meeting

V. **Status Reports**

- A. Operations
- B. Financial
- C. Regulatory
- D. Capital Improvement Planning

VI. **Action: Proposed FY 2002 Operating and Maintenance Budget**

- A. Review of Budget Philosophy, Strategies, Objectives, and Contents
- B. Committee Action on Proposed FY 2002 Budget

VII. **Other Business**

VIII. **Adjourn to Lunch**



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

MINUTES

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
 6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
 FRIDAY, AUGUST 10, 2001, 10:30 A.M.**

I. **Call to Order** – Chairman Gravley called the meeting to order at 10:35 a.m. and asked Warren Brewer to call roll.

II. **Roll Call**

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	Present
Arlington	Ms. Fiona Allen f/Mayor Elzie Odom	Present
Bedford	Mr. Justin Brown f/Councilmember Jim Griffin	Present
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Mr. Jim Sparks f/Mr. Greg Porter	Present
Colleyville	Ms. Terry Leake f/Ms. Dianne McWethy	Present
Coppell	Mr. Ken Griffin	Absent
Dallas	Mr. Larry Patterson f/Mr. Terrace Stewart	Present
D/FW Airport	Mr. Dan Bergman f/Mr. Thomas M. Dunning	Present
Duncanville	Mr. Dennis Scharwitz f/Mr. Kent Cagle	Present
Euless	Mr. Randy Byers f/Councilmember Glenn Porterfield	Present
Farmers Branch	Mr. Mark Pavageaux f/Councilmember Paul Walden	Present
Fort Worth	Mr. Robert McMillon f/Mr. Dale Fisseler	Present
Grand Prairie	Councilmember Richard Fregoe	Present
Grapevine	Mr. Matt Singleton f/Mr. Jerry Hodge	Present
Hurst	Mr. Ron Haynes	Present
Irving	Mr. Jim Siddall f/Councilmember Lewis Patrick	Present
Keller	Mr. John Wedele f/Mr. Ed Ilschner	Present
Mansfield	Mr. Bud Ervin f/Councilmember Blake Evans	Present
N. Richland Hills	Mr. David Smith f/Mr. Mike Curtis	Present
Southlake	Mr. Jim Funderburg f/Mr. Pedram Farahnak	Present
Trinity River Authority	Mr. Danny F. Vance	Present
	Director Wanda Stovall	Absent
	Director Hector Escamilla, Jr.	Present

III. **Introduction of Guests, Consultants and Authority Staff**
 Authority Staff: Warren Brewer, Patricia Cleveland, Bill Smith, John Owens, Randy Brooks, John Nelson, Bill Decker, Cheryl Abbott, John Jadrosich, Bill Tatum, Mike Young, and Bill Cyrus.



Guests:

Arlington – John Kubala and Rick McClery
Carrollton – Dudley St. Clair
Dallas – María Alicia Garcia
Eules – Ron Young
Grand Prairie – Ron McCuller
First Southwest Company – Boyd London
Alan Plummer Associates – Alan Plummer
Black & Veatch – Layne Parsons and Kelly McGlothlin
Freese & Nichols – Ray Longoria

IV. **Approval of Minutes of the January 24, 2001 Meeting**

Chairman Gravley asked if there were any corrections or revisions to the minutes of the January 24, 2001 meeting. There being none, Robert McMillon made a motion to approve the minutes as presented, Larry Patterson seconded the motion, and a unanimous vote followed.

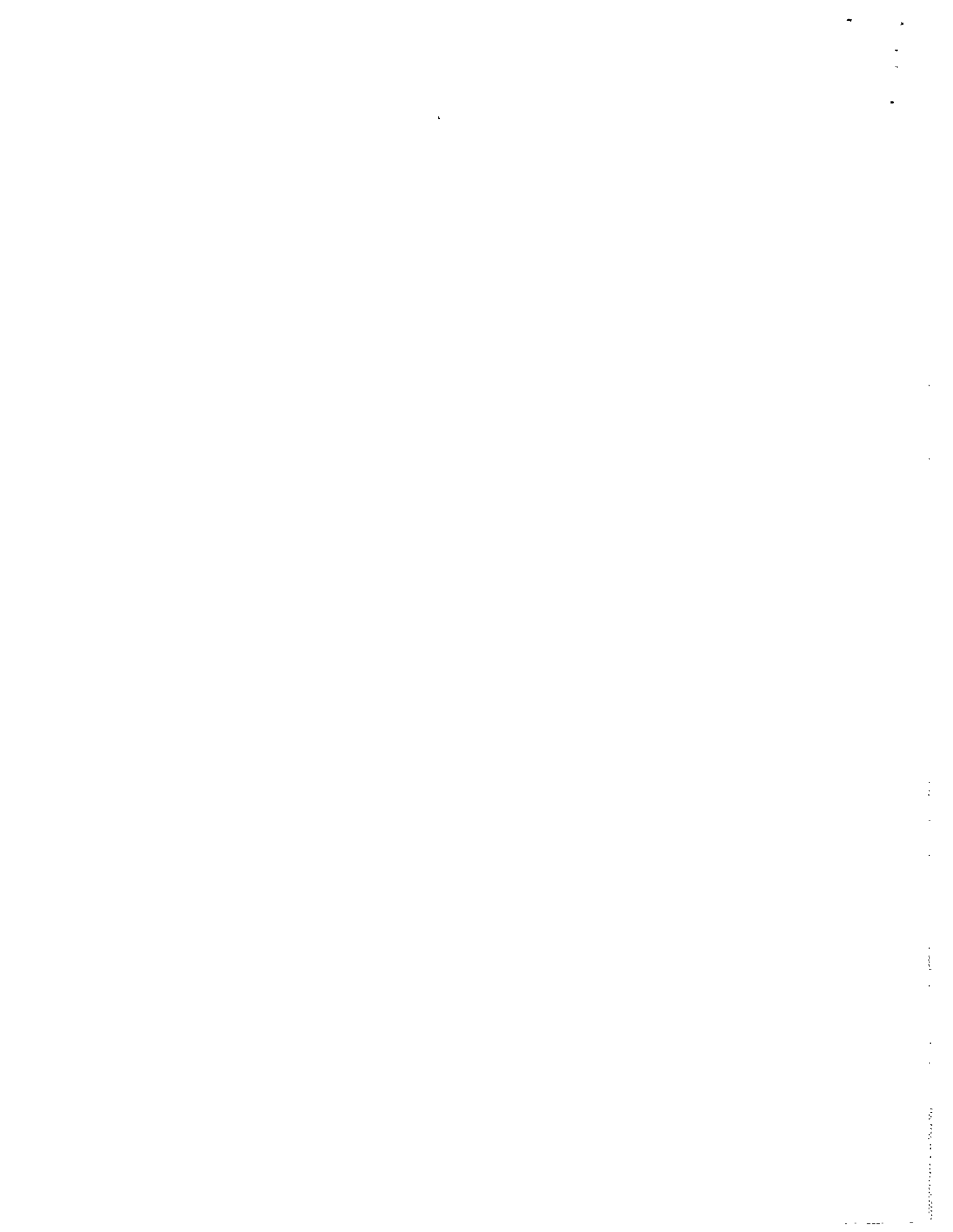
V. **Status Reports**

- A. Operations – Bill Tatum updated Members on the effluent flows from August 2000 through July 2001; effluent quality; the numerous outflows that had occurred with the wet weather; System repairs due to outflows; the belt presses being put on line; an increase in disinfections; and increased cost in electricity and chemicals.
- B. Financial – Patricia Cleveland reported that the FY 2000 settle ups had been mailed earlier and that this was the third year that the I/I proration method had been used. She stated that the FY 2001 mid-year reallocations had been sent to the Contracting Parties and that it reflected increases in fuel and chemical costs.
- C. Regulatory – Patricia Cleveland told Attendees that on April 1st TRA began using 162 MGD as its final limits on the discharge permit and that we were now reporting rolling 12-month averages instead of monthly flows. She explained that the Authority staff had sent the modified pretreatment program to the EPA and TNRCC and we should soon receive the approved pretreatment program.
- D. Capital Improvement Planning
 - (1) Planning, Design, Construction
 - (2) Series 2001 SRF Bonds

Randy Brooks referred to the construction status report that had been distributed and gave a summary on the Series 2001 SRF bonds that were sold in February for \$88.25 million to continue the improvements and expansion of the CRWS facility.

VI. **Discussion: Presentation of Proposed FY 2002 Operating and Maintenance Budget**

- A. Budget Philosophy and Strategies
- B. System Flows and Allocations
- C. Budget Objectives
- D. Detailed Budget Review



Warren Brewer explained the five P's of efficiency used in preparing the FY 2002 Budget: planning, purchasing, personnel, processes, and power. Patricia Cleveland then gave a detailed presentation on the proposed FY 2002 Central Regional Wastewater System Operating and Maintenance Budget.

VII. **Other Business**

A. **Electrical Power Supply Planning: Information**

Warren Brewer gave a summary on the Authority's approach to the Senate Bill 7 electric utility deregulation bill that gives electric customers a choice of their Retail Electric Provider (REP) beginning January 1, 2002. He stated that a decision should be made by the end of September as to whether TRA would select a REP for the Authority's electrical provider, or join with other agencies for a better power contract.

B. **Mountain Creek Regional Wastewater System Planning: Information**

Warren Brewer briefed everyone on Midlothian's interest in joining the Central System last year. He then stated that several months ago, the cities of Grand Prairie and Midlothian had approached the Authority concerning the possibility of TRA developing and operating a new regional system and that he expects negotiations to be finalized by the end of the year.

C. **Biosolids Land Application Planning: Information**

Warren Brewer stated that CRWS produced both Class A and Class B biosolids for land application on private land. He added that criticism had been leveled by citizens throughout the state to the TNRCC about the use of Class B biosolids, and he expected that most future permitting would be for Class A only.

D. Patricia Cleveland presented Bill Tatum with the American Metropolitan Sewage Association Gold Award, stating that the Central System had met all permit requirements for the year 2000.

VIII. **Adjourn to Lunch**

Chairman Gravley adjourned the meeting at 11:55 a.m. and invited guest to remain for lunch.



TRINITY RIVER AUTHORITY OF TEXAS
 CENTRAL REGIONAL WASTEWATER SYSTEM
 ADVISORY COMMITTEE MEETING

AGENDA
 CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
 6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
 FRIDAY, AUGUST 10, 2001, 10:30 A.M.

I. Call to Order

II. Roll Call

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	_____
Arlington	Mayor Elzie Odom	_____
Bedford	Councilmember Jim Griffin	_____
Carrollton	Mr. Milburn Gravley	_____
Cedar Hill	Mr. Greg Porter	_____
Colleyville	Mr. Dianne McWethy	_____
Coppell	Mr. Ken Griffin	_____
Dallas	Mr. Terrace Stewart	_____
D/FW Airport	Mr. Thomas M. Dunning	_____
Duncanville	Mr. Kent Cagle	_____
Eules	Councilmember Glenn Porterfield	_____
Farmers Branch	Councilmember Paul Walden	_____
Fort Worth	Mr. Dale Fisseler	_____
Grand Prairie	Councilmember Richard Fregoe	_____
Grapevine	Mr. Jerry Hodge	_____
Hurst	Mr. Ron Haynes	_____
Irving	Councilmember Lewis Patrick	_____
Keller	Mr. Ed Ilschner	_____
Mansfield	Councilmember Blake Evans	_____
N. Richland Hills	Mr. Mike Curtis	_____
Southlake	Mr. Pedram Farahnak	_____
Trinity River Authority	Mr. Danny F. Vance	_____
	Director Wanda Stovall	_____
	Director Hector Escamilla, Jr.	_____

III. Introduction of Guests, Consultants and Authority Staff

IV. Approval of Minutes of the January 24, 2001 Meeting

V. **Status Reports**

- A. Operations
- B. Financial
- C. Regulatory
- D. Capital Improvement Planning
 - (1) Planning, Design, Construction
 - (2) Series 2001 SRF Bonds

VI. **Discussion: Presentation of Proposed FY 2002 Operating and Maintenance Budget**

- A. Budget Philosophy and Strategies
- B. System Flows and Allocations
- C. Budget Objectives
- D. Detailed Budget Review

VII. **Other Business**

- A. Electrical Power Supply Planning: Information
- B. Mountain Creek Regional Wastewater System Planning: Information
- C. Biosolids Land Application Planning: Information

VIII. **Adjourn to Lunch**



**TRINITY RIVER AUTHORITY OF TEXAS
CENTRAL REGIONAL WASTEWATER SYSTEM
ADVISORY COMMITTEE MEETING**

MINUTES

**CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
WEDNESDAY, JANUARY 24, 2001, 10:30 A.M.**

I. **Call to Order** – Chairman Gravley called the meeting to order at 10:35 a.m. and asked Warren Brewer to call roll.

II. **Roll Call**

<u>ENTITY</u>	<u>REPRESENTATIVE</u>	<u>PRESENT/ABSENT</u>
Addison	Mr. Michael Murphy	Present
Arlington	Mr. Charles Anderson f/Mayor Elzie Odom	Present
Bedford	Councilmember Karin Newell	Absent
Carrollton	Mr. Milburn Gravley	Present
Cedar Hill	Mr. Jim Sparks f/Mr. Greg Porter	Present
Colleyville	Mr. Dianne McWethy	Absent
Coppell	Mr. Ken Griffin	Absent
Dallas	Mr. Larry Patterson f/Mr. Terrace Stewart	Present
D/FW Airport	Mr. Rusty Hodapp f/Mr. Thomas M. Dunning	Present
Duncanville	Mr. Bill Willborn f/Mr. Kent Cagle	Present
Eules	Councilmember Glenn Porterfield	Present
Farmers Branch	Councilmember Paul Walden	Present
Fort Worth	Mr. Robert McMillon f/Mr. Dale Fisseler	Present
Grand Prairie	Mr. Doug Cunny f/Councilmember Richard Fregoe	Present
Grapevine	Mr. Matt Singleton f/Mr. Jerry Hodge	Present
Hurst	Mr. Ron Haynes	Absent
Irving	Councilmember James Dickens	Present
Keller	Mr. Ed Ilchner	Present
Mansfield	Mr. Chris Burkett f/Councilmember Blake Evans	Present
N. Richland Hills	Mr. Greg Dickens	Present
Southlake	Mr. Pedram Farahnak f/Mr. James Campbell	Present
Trinity River Authority	Mr. Danny F. Vance	Present
	Director Wanda Stovall	Present
	Director Hector Escamilla, Jr.	Absent

III. **Introduction of Guests, Consultants and Authority Staff**
introduced were Warren Brewer, Patricia Cleveland, Bill Smith, Randy Brooks, John Owens, John Nelson, Cheryl Abbott, John Jadrosich, Bill Tatum, Bill Cyrus, Mike Young, and Shelley Fialho with the Authority.

2

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Others Present:

City of Arlington – Rick Cleary and Tim Barbee
City of Carrollton – Dudley St. Clair and Steve Jenkins
City of Farmers Branch – Mark Velton and Paul Lunsford
City of Fort Worth – Buster Fischera
City of Irving – Jim Siddall and Bob Chapman
City of Keller – John Wendele
City of Mansfield – Bud Ervin
City of North Richland Hills – Larry Kootnz
City of Southlake – Mike Patterson
Alan Plummer Associates – Alan Plummer and Mark Perkins
Black & Veatch – Layne Parsons
Freese & Nichols – Ray Longoria
First Southwest Company – Boyd London and Mary Williams
McCall, Parkhurst and Horton – Chuck Kobdich

IV. **Approval of Minutes of the September 12, 2000 Meeting**

Chairman Gravley asked if there were any corrections or revisions to the minutes of the September 12, 2000 meeting. There being none, Charles Anderson made a motion to accept the minutes as presented. A second was made by Greg Dickens and a unanimous vote followed.

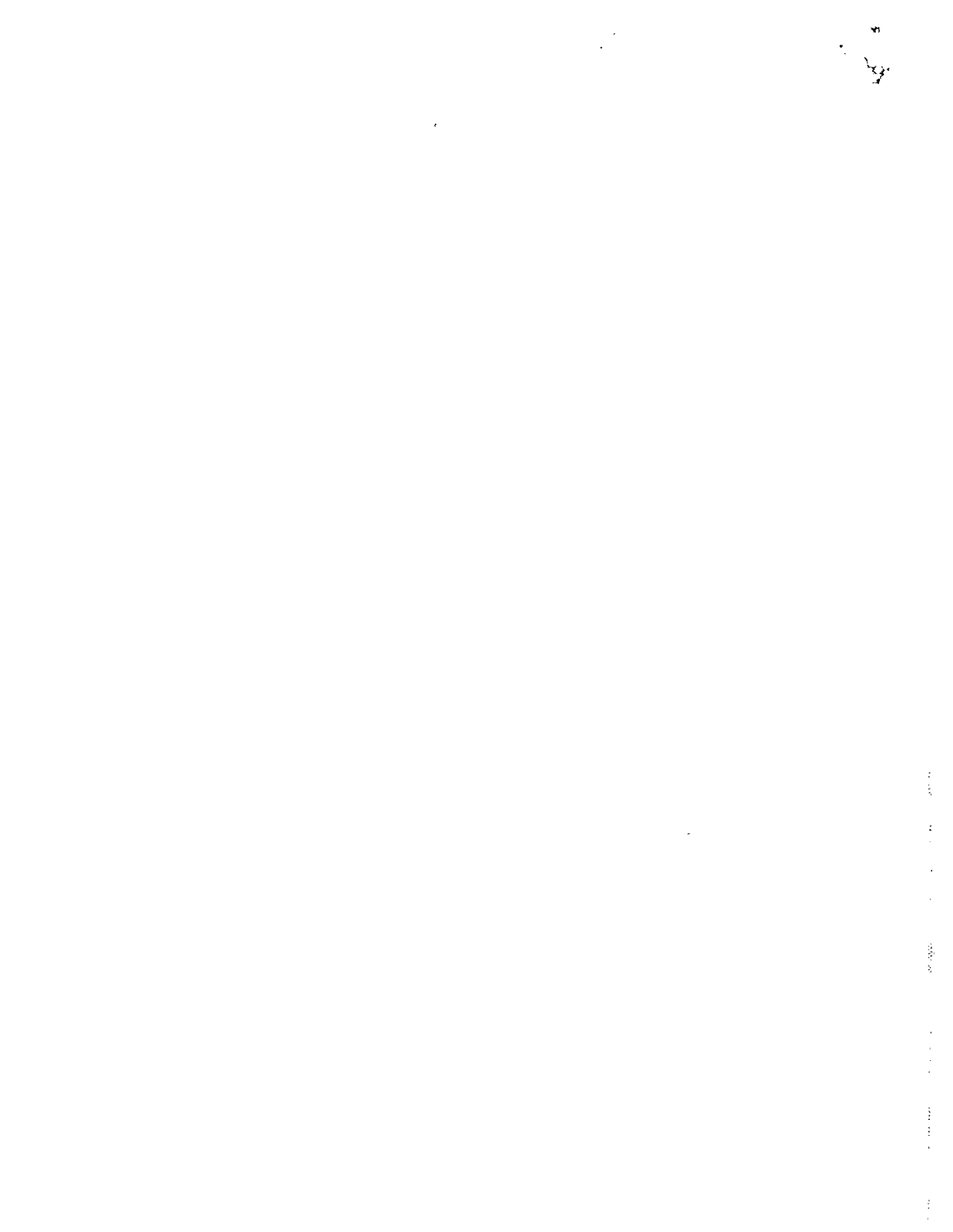
V. **Status Reports**

- A. Operations – Bill Tatum gave a slide presentation summarizing System operations and permit parameters for the prior 13 months. Other items in his report included: the west Arlington flows entered the System in August 2000; DFW Airport's need to release their detention basins to CRWS due to December's back to back deicings; and the \$5 million sludge improvements that will begin in February.
- B. Financial – Patricia Cleveland discussed the FY 2000 actual flows and their impact on the FY 2000 Budget; updated attendees on the current FY 2001 Budget; and stated that work on the FY 2002 Budget was in the early stages.
- C. Regulatory – Patricia Cleveland stated that the Central System had received its new TPDES permit and as soon as the solids dewatering improvements were completed and the TNRCC notified, the permit would be upgraded.
- D. Capital Improvement Planning – Randy Brooks summarized the projects that were currently under design and construction.

VI. **Action: Proposed TWDB SRF Funding for Capital Improvements**

- A. Background and facility needs
- B. Advisory Committee Action – Series 2001 Bonds

Randy Brooks gave a presentation on capital improvements and cost that would be included in the Series 2001 Bonds. Warren Brewer summarized the financing options available for the Series 2001 Bonds and stated that TRA felt that using the Texas Water Development Board's State Revolving Fund would be the most economical. After discussion, Greg Dickens made a motion to recommend that the TRA Board of Directors approve the Series 2001 Central Regional Wastewater System Bonds using State Revolving Funds through the Texas Water Development Board. Matt Singleton seconded the motion and a unanimous vote followed.



VII. **Other Business**

Warren Brewer informed members that the City of Midlothian had decided to expand and improve their facilities and would not be joining the Central Regional Wastewater System.

Mr. Brewer explained that TRA was a member of the Texas Water Conservation Association whose mission was water resource management and conservation. He explained that in response to Senate Bill 7, the TWCA members were conducting an aggregation study to investigate pooling resources and purchasing blocks of electricity.

Danny Vance stated that the 1997 Senate Bill 1 Regional Planning Groups had completed their plans and that the Texas Water Development Board was in the process of meshing the 16 district plans into one plan. Mr. Vance also updated attendees on legislative issues, including a supplemental bill to the 1997 Senate Bill 1 (Senate Bill 2) and a recodification bill that would combine all river authorities and water districts into one bill.

VIII. **Adjourn to Lunch** – There being no other business, Chairman Gravley adjourned the meeting at 12 noon and invited attendees to stay for lunch.

12

For Meeting 8/10/01

Trinity River Authority of Texas



Northern Region Office

August 3, 2001

3110.102

MEMBERS, Advisory Committee
Central Regional Wastewater System

REMINDER NOTICE
CENTRAL REGIONAL WASTEWATER TREATMENT PLANT
6500 WEST SINGLETON BLVD., GRAND PRAIRIE, TEXAS
FRIDAY, AUGUST 10, 2001, 10:30 A.M.

THIS IS A REMINDER notice for the meeting of the Central Regional Wastewater System Advisory Committee scheduled for 10:30 a.m., Friday, August 10, 2001 at the **Central Regional Wastewater Treatment Plant in Grand Prairie, at 6500 West Singleton Blvd., Grand Prairie, Texas.** You are invited to lunch immediately following the meeting. Please RSVP to Cheryl Abbott at 817-493-5100 or abbottc@trinityra.org.

This meeting will include the presentation and explanation of the FY 2002 Operating and Maintenance Budget for the Central Regional Wastewater System. An agenda and minutes of the January 24, 2001 meeting are attached for your review.

If you have questions prior to the meeting, please contact this office at 817-493-5100.

Warren N. Brewer

WARREN N. BREWER
Regional Manager
Northern Region

WNB/cea

Attachments

c: Danny F. Vance, General Manager
Patricia M. Cleveland, Manager, Operations
Bill Tatum, Manager, CRWS





AGENDA ITEM VI

DATE: August 10, 2001

FILE: 3110.102/3110.800

TO: MEMBER, ADVISORY COMMITTEE
CENTRAL REGIONAL WASTEWATER SYSTEM

RE: Central Regional Wastewater System
Proposed FY 2002 Budget

Authority management annually prepares a proposed budget of anticipated revenues and expenditures of the Central Regional Wastewater System in accordance with the fiscal provisions of our Wastewater Services Contract for the ensuing fiscal year. We are pleased to present to you the proposed FY 2002 Budget for the annual operating funds of the Central System. This budget is relevant to the time period for December 1, 2001 through November 30, 2002.

This budget reflects the proposed financial activities of operating and debt service funds, provides for our continuing ability to deliver high quality, efficient wastewater service to our Contracting Parties, and will continue to position the Central System for increased growth, regulatory changes and maximized internal operational productivity measures to result in cost efficient wastewater treatment. Therefore, the budget reflects the Authority's continued commitment to keep operational expenses to a minimum and to maximize the process of increasing operational efficiency throughout the Authority. A brief overview of Central's financial picture for FY 2002 will reveal a decrease in overall System expenditures, with only those increases in operating accounts required to meet contractual obligations for our treatment of wastewater, as well as a decrease associated with the debt service requirements, as compared to previous year. The operation and maintenance expenditures were developed based on transporting and treating an average daily flow of 145.522 MGD. The cost of debt service requirements is based on principal and interest payments due on outstanding Central Regional Wastewater System Revenue Bonds.

The anticipated expenditures in FY 2002 total \$54,352,130, an approximate 0.29% decrease below the \$54,509,150 predicted for the current fiscal year. The projected costs for salaries

and related benefits, office supplies, association dues, TNRCC fees, laboratory supplies, process chemicals, fuel, instrument supplies, audits, engineering services, outside laboratory services, Authority network and Process SCADA support, professional services, telephone

Expenses

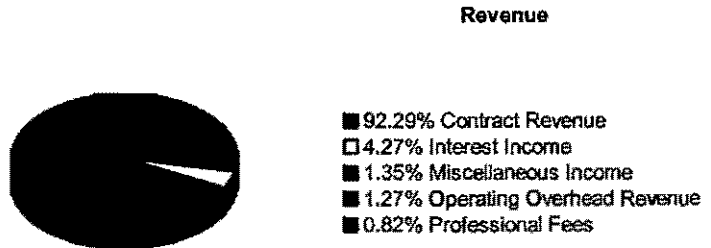


- 55.71 Debt Service and Miscellaneous
- 22.27% Other Services and Charges
- 14.54% Personal Services
- 5.85% Supplies
- 1.63% Capital Outlays



and communication services, postage, Project insurance payments, employee travel, water and power usage, plant, building and electrical system maintenance repairs, equipment rental, administrative overhead and capital outlays essential for delivering services during the year have increased \$3,508,680 above the predicted FY 2001 Budget, which is \$1,908,680 above the FY 2001 Budget, as amended at midyear. The increase in the proposed FY 2002 Budget for operating accounts is partly offset by a \$330,830 reduction in service cost for transportation and beneficial use of biosolids and in other operating category accounts by holding the line on controllable costs, as close scrutiny was given to all anticipated expenditures. Along with decreases in some predicted operating accounts, there is a reduction in programmed debt payments of \$3,334,870, resulting in an overall projected decrease of \$157,020 for FY 2002 expenditures below the FY 2001 Budget as adopted, and \$1,757,020 below the FY 2001 Budget, as amended in midyear. As is evidenced by the following table, Central's predicted gross unit cost/1000 gallons is \$0.001 higher than last year's projection for FY 2002 and is \$0.02 less than the adopted budget gross unit cost.

Anticipated FY 2002 revenues from the System's Contracting Parties, totaling \$50,442,440, reflect a 2.5% increase above the FY 2001 projected revenue requirement of \$49,187,660. The resulting predicted gross and net unit costs of service for wastewater transportation and treatment throughout FY 2002 are 1.9% under and 0.7% over the respective predicted FY 2001 budgeted unit costs as reflected in the following table:



Category	FY 2001 Budgeted Unit Cost	FY 2002 Predicted Unit Cost	% Change
Transportation	\$0.001	\$0.001	0%
Treatment	\$0.001	\$0.001	0%
Other	\$0.001	\$0.001	0%
Total	\$0.001	\$0.001	0%

The following exhibits are presented to provide flow allocations, a summary of budget objectives and detailed information about the five major budget categories, as well as additional quantitative and statistical information for your review:

- Exhibit A - Flow Allocations
- Exhibit B - Budget Objectives
- Exhibit C - Budget at a Glance
- Exhibit D - Personal Services
- Exhibit E - Supplies
- Exhibit F - Other Services and Charges
- Exhibit G - Capital Outlays
- Exhibit H - Debt Service and Miscellaneous
- Exhibit I - Historical System Data
- Exhibit J - Projected Future Costs of Service



August 10, 2001
3110.102/3110.800
MEMBER, ADVISORY COMMITTEE
Page 3

The proposed FY 2002 Budget (Exhibit K) is presented for your review and consideration and will be discussed in the August 10, 2001 Advisory Committee meeting. Additionally, a Budget Workshop will be held in the upstairs conference room of the Administrative Building at the Central Regional Wastewater System on Thursday, August 23, 2001, beginning at 10:00 a.m. for those representatives and city staff members who do not attend the Advisory Committee meeting or desire to discuss the proposed budget in more detail. A later Advisory Committee meeting is scheduled for Tuesday, September 11th, at which time the committee will be requested to recommend the proposed FY 2002 Budget for adoption by the Authority's Board of Directors.

If there are any questions concerning the proposed budget or the workshop, please contact the Northern Region office.



PATRICIA M. CLEVELAND
Manager, Operations
Northern Region

PMC/rrc

Attachments

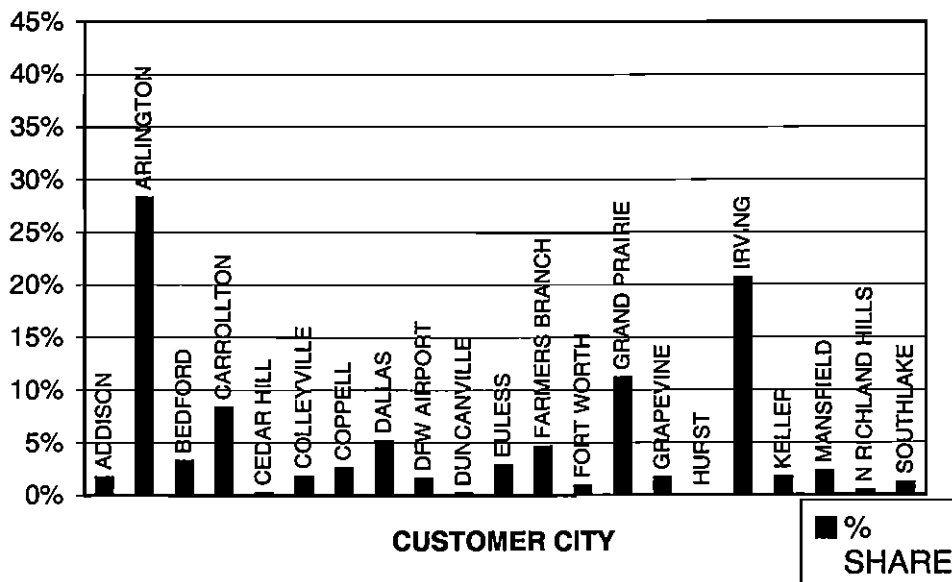
c: Danny F. Vance, General Manager
Warren N. Brewer, Regional Manager, Northern Region
Bill Tatum, Project Manager, Central Regional Wastewater System



**EXHIBIT A
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2002 FLOW ALLOCATIONS**

CITY	FY 2001	FY 2001	FY 2002	FY 2002
	FLOW (MGD)	% ALLOCATION	FLOW (MGD)	% ALLOCATION
ADDISON	2.420	1.691%	2.420	1.664%
ARLINGTON	39.860	27.848%	41.080	28.230%
BEDFORD	5.360	3.745%	4.666	3.206%
CARROLLTON	12.200	8.524%	12.100	8.315%
CEDAR HILL	0.210	0.147%	0.245	0.168%
COLLEYVILLE	2.445	1.708%	2.539	1.745%
COPELL	3.575	2.498%	3.700	2.543%
DALLAS	7.200	5.030%	7.500	5.154%
DFW AIRPORT	2.100	1.467%	2.310	1.587%
DUNCANVILLE	0.200	0.140%	0.200	0.137%
EULESS	4.000	2.795%	4.100	2.817%
FARMERS BRANCH	6.500	4.541%	6.700	4.604%
FORT WORTH	1.200	0.838%	1.267	0.871%
GRAND PRAIRIE	15.890	11.102%	16.208	11.138%
GRAPEVINE	2.724	1.903%	2.380	1.635%
HURST	0.175	0.122%	0.183	0.126%
IRVING	29.900	20.890%	30.000	20.616%
KELLER	1.850	1.292%	2.415	1.659%
MANSFIELD	3.090	2.159%	3.250	2.233%
N RICHLAND HILLS	0.540	0.377%	0.565	0.388%
SOUTHLAKE	1.694	1.183%	1.694	1.164%
TOTAL	143.133	100.000%	145.522	100.000%

BUDGETED FY 2002 FLOWS





**EXHIBIT B
CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2002**

DESCRIPTION OF THE PROJECT

The Trinity River Authority's Central Regional Wastewater System is a large regional wastewater system located on 495 acres adjacent to the West Fork of the Trinity River and is currently serving approximately one million customers in Dallas, Tarrant, Ellis, Johnson and Denton counties of north central Texas. The service area encompasses all or portions of 20 cities in the Dallas/Fort Worth metroplex, as well as the Dallas/Fort Worth International Airport. The Central Regional Wastewater System treatment plant is an advanced secondary facility currently permitted to treat 162 million gallons per day (MGD). This System consists of an extensive regional network of interceptors, pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for golf course irrigation and lake level management under the first major urban reuse program in Texas.

GOALS AND OBJECTIVES FOR FY 2002

The Authority's objectives are reflected in the recommended Annual Operating Budget for Central Regional Wastewater System FY 2002. The major goals and objectives are:

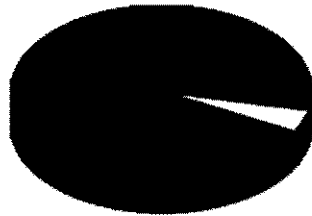
- Operate and adequately protect the Central System's capital investments by proper maintenance, which includes a 162 MGD treatment plant, over 200 miles of interceptors, four lift stations, 138 metering stations, an analytical laboratory, and the DCURD water reuse project.
- Provide wastewater transportation and treatment services for a projected flow contribution of 145.522 MGD.
- Continue operating at efficient levels and minimize unit costs while enhancing treatment capacity and meeting all regulatory requirements.
- Continue Authority efforts to reduce overall wet-weather flow impacts to the System by installing new pipelines for capacity, rehabilitating existing collection system infrastructure and plant facilities as identified in the first and second phases of the 1998 Five Year Plan; funded by the Series 1998A and 2000 Revenue Bonds, and the third phase funded by the Series 2001 Bonds.
- Operate and maintain odor control facilities consistent with the Odor Control Management Plan and implement additional odor improvements in the primary treatment areas to reduce risk of adjacent area odors.
- Provide Contracting Parties laboratory testing and pretreatment program capabilities and services on a revenue-supported basis.
- Continue 100% land application of System biosolids under a five-year agreement.
- Respond in a timely fashion to Customer Cities' requests for assistance.



EXHIBIT C
FISCAL YEAR 2002 BUDGET AT A GLANCE
CENTRAL REGIONAL WASTEWATER SYSTEM
PROPOSED OPERATION AND MAINTENANCE BUDGET

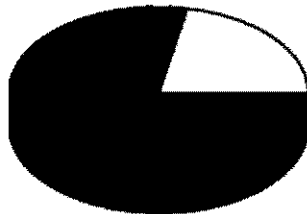
Revenue	\$54,635,440
Expenses	\$54,352,130
Variance (Retained for FY 2003 Debt Requirements)	\$283,310

Revenue



- 92.29% Contract Revenue
- 4.27% Interest Income
- 1.35% Miscellaneous Income
- 1.27% Operating Overhead Revenue
- 0.82% Professional Fees

Expenses



- 55.71% Debt Service and Miscellaneous
- 22.27% Other Services and Charges
- 14.54% Personal Services
- 5.85% Supplies
- 1.63% Capital Outlays

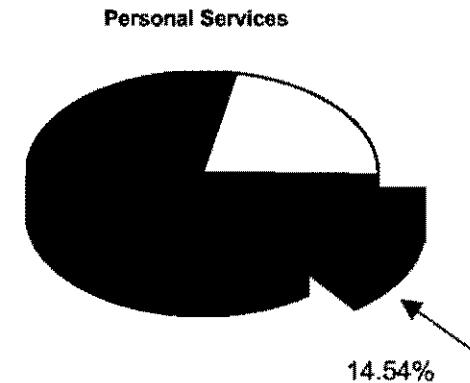
FISCAL YEAR 2002
FUND SUMMARY

Revenue Summary	
Contract Revenue	\$50,422,440
Operating Overhead	\$692,390
Professional Fees	\$450,000
Interest Income	\$2,335,350
Miscellaneous Income	\$735,260
Total Sources of Funds	\$54,635,440
Expenditure Summary	
Personal Services	\$7,901,870
Supplies	\$3,177,200
Other Services and Charges	\$12,104,910
Capital Outlays	\$887,950
Debt Service and Miscellaneous	\$30,280,200
Total Application of Funds	\$54,352,130

**EXHIBIT D
CENTRAL REGIONAL WASTEWATER SYSTEM**

**PERSONAL SERVICES
FY 2002**

- Proposed FY 2002 of \$7,901,870 vs Current FY 2001 of \$7,213,510 = Variance \$688,360 or + 9.5%.
- The budget category of Personal Services includes seven line item accounts. As compared with present budget, one line item account decreased (-) \$200 (Education), one remained unchanged (Unemployment Compensation) and five increased (+) \$688,560 (Salaries, FICA, Health/Life Insurance, Pension, and Employee Service Recognition).
- The anticipated increase in salaries and related benefit costs is partly due to usual provisions for forecasted salary adjustments based on merit, varying with each individual employee. Also, provisions are included for an April 2001 Authority-wide salary plan adjustment.
- Authority management believes that the Central facility can be operated efficiently and maintain adequate margins of safety with one Project Manager, an Operations/Maintenance staff of 98, plus 52 Technical Services/Pretreatment staff, Administrative staff of 9, and 7 Purchasing/Warehouse staff.



Personal Services expenditures include those costs associated with the staffing required to operate, maintain, and administer the treatment plant, biosolids program, laboratory, pretreatment program, collection system, and meter stations. Significant line item accounts in this category of expenditures include salaries, payroll taxes, health insurance, and pension.

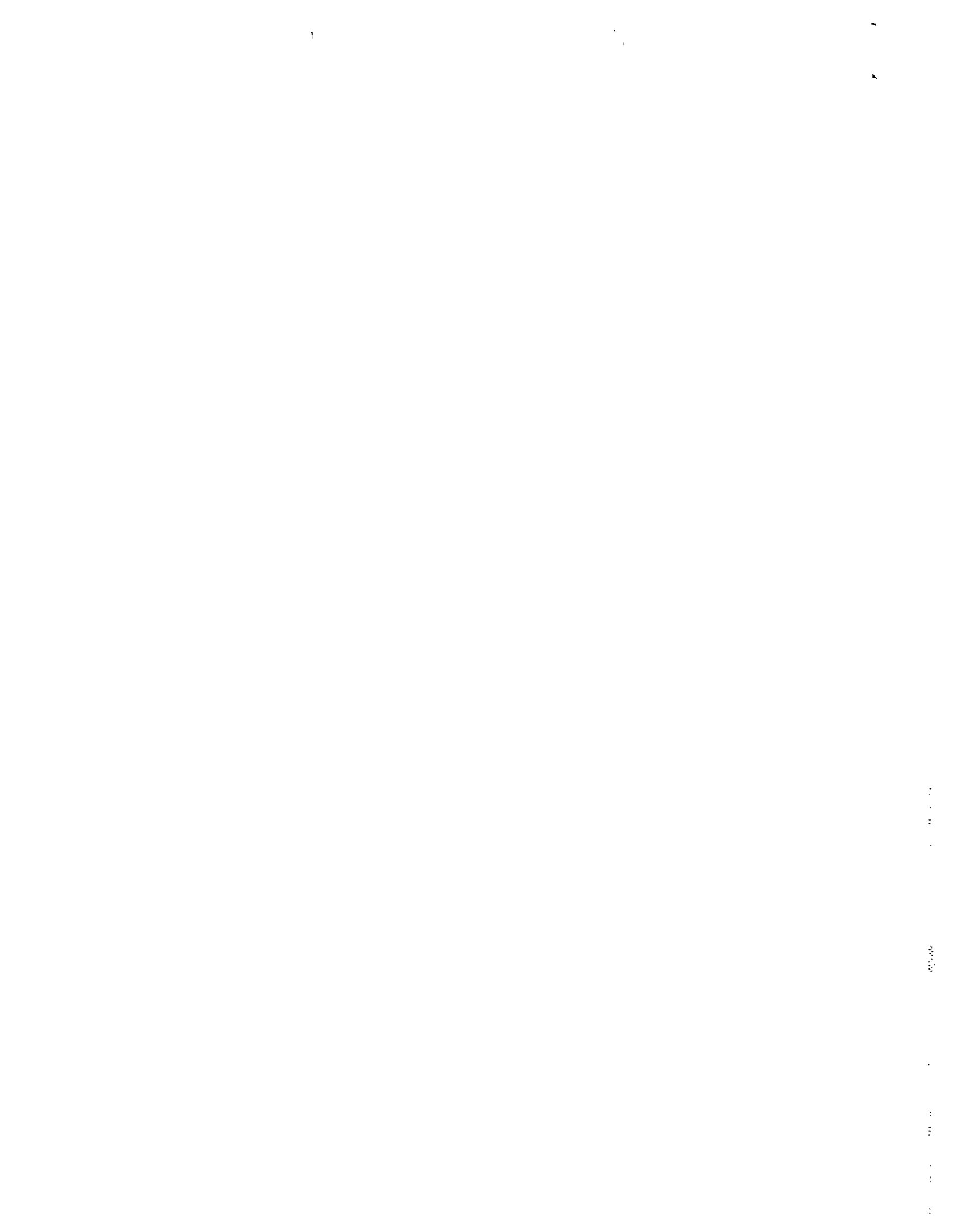
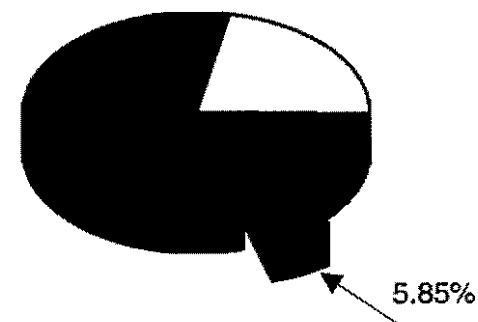


EXHIBIT E
CENTRAL REGIONAL WASTEWATER SYSTEM
SUPPLIES
FY 2002

- Proposed FY 2002 of \$3,177,200 vs Current FY 2001 of \$2,606,140 = Variance \$571,060 or + 21.9%.
- The budget category of Supplies includes eight line item accounts. As compared with the present budget, one decreased (-) \$15,850 (Maintenance and Operating Supplies), and the remaining seven line item accounts increased (+) \$586,910 (Office Supplies, Dues, Fees, Lab Supplies, Process Chemicals, Fuel, Oil and Lubricants, and Instrument Supplies).
- Over 76% of the expenditures for Supplies is for the purchase of process chemicals. The increase of \$558,360 in anticipated process chemical expenditures is primarily associated with an increase for lime and ferric chloride for solids thickening, dewatering and stabilization of sludge to produce Class A biosolids. Also, additional increases in this area are related to disinfection and dechlorination process chemicals.

Supplies

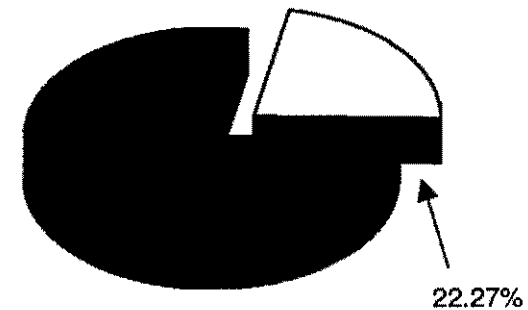


Approximately 76% of the expenditures in this category are for the purchase of process chemicals necessary for sludge thickening, dewatering and stabilization, odor control, effluent disinfection and dechlorination, and other treatment processes.

**EXHIBIT F
CENTRAL REGIONAL WASTEWATER SYSTEM
OTHER SERVICES AND CHARGES
FY 2002**

- Proposed FY 2002 of \$12,104,910 vs Adopted FY 2001 of \$10,573,680 = Variance \$1,531,230 or + 14.5%. Actually, this category will be \$68,770 less than the Amended FY 2001 Budget.
- The budget category of Other Services and Charges includes 22 line item accounts. As compared with the Adopted budget, two remained unchanged (Legal and Training), six line item accounts decreased (-) \$314,780 and fourteen increased (+) \$1,847,010.
- Over 85% or \$270,250 of the decreased expenditures in this category is for offsite biosolids land application due to the competitive negotiation of a new five-year contract which began March 1, 2001. The overall impact for hauling and land applying approximately 200,000 wet tons of Class A biosolids annually was lowered from \$13.30 to \$12.50 per wet ton. The remaining decreases in this category are due to reduced expenses for printing and binding, laundry and uniform, and repair and maintenance of collection system, equipment and vehicles.
- This category of expenditures includes increases in Authority audit expense, engineering services, Authority network and process SCADA support services, outside laboratory services, telephone and communication services, postage, Project insurance payments, employee travel, water and power usage, repair and maintenance of plant facilities and electrical systems, equipment rental, and administrative overhead costs. Approximately \$1.33 million or 72% of the increase in this category is attributable to power expenses which reflect the effects of higher fuel prices and surcharges.

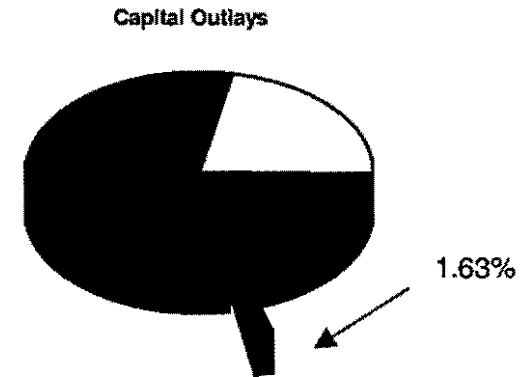
Other Services and Charges



This category of expenditures relates to the indirect costs associated with the collection and treatment of wastewater and includes accounts such as power, utilities, insurance payments, repair and maintenance of the plant, equipment, collection system, and vehicles, and off-site biosolids disposal.

EXHIBIT G
CENTRAL REGIONAL WASTEWATER SYSTEM
CAPITAL OUTLAYS
FY 2002

- Proposed FY 2002 of \$887,950 vs Current FY 2001 of \$500,750 = Variance (+) \$387,200 or (+) 77.3%.
- The Capital Outlays category can vary significantly from year to year as major equipment is only purchased on an annual as needed basis.
- This category consists of 84% capital expenditures for replacement items and 16% new items of capital equipment proposed for purchase in FY 2002.
- Over 55% or \$490,000 of the proposed Capital Outlays are for the replacement of three large, heavy equipment items (roll-off truck, rubber tire loader, and track hoe) which have excessive mileage and wear due to age, and are or will begin experiencing excessive maintenance costs. Other items in this category which consist of \$228,200 for proposed purchase in FY 2002 are fifteen dissolved oxygen meters, four electrical valve operators, six trucks for operations, process maintenance, pretreatment and collection system monitoring, one automobile for the Technical Services Manager, seven wastewater flow meters, six autosamplers, one six-inch portable pump, one laboratory mercury analyzer and one laboratory total kjeldahl nitrogen digester unit.
- A list of all the projected capital expenditures is on pages 27 and 28 of the attached proposed FY 2002 Budget.



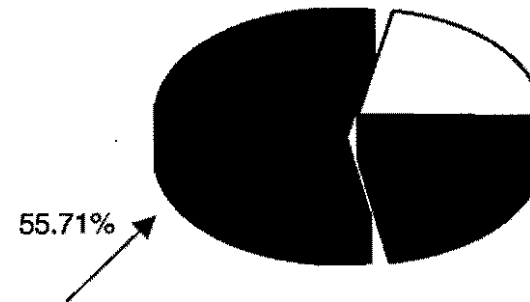
The category of Capital Outlays consists of the purchase of machinery and equipment to achieve a new purpose or replace existing equipment.



**EXHIBIT H
CENTRAL REGIONAL WASTEWATER SYSTEM
DEBT SERVICES AND MISCELLANEOUS
FY 2002**

- Proposed FY 2002 of \$30,280,200 vs. Current FY 2001 of \$33,615,070 = Variance (-) \$3,384,870 or (-) 9.9%.
- The amount budgeted for Debt Service reflects the fixed and established schedules based on outstanding debt of the Central System.
- In July 1998, the Authority issued \$50,845,000 in Regional Wastewater System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects for the Central Regional Wastewater System. These bonds were purchased by the State Revolving Funds of the Texas Water Development Board.
- In September 1998, the Authority issued \$66,950,000 in System Improvement and Refunding Bonds, with \$61,375,000 being refunded, producing a savings of \$2.7 million through the life of the bond.
- In July 2001, The Authority issued \$88,225,000 in Regional Wastewater System Improvement Bonds to finance the design and construction of various rehabilitation and plant improvement projects for the Central Regional Wastewater System. These bonds were purchased by the State Revolving Funds of the Texas Water Development Board.
- The decrease in debt expenditures over the present FY 2001 Budget is due to the overall decrease in scheduled debt service payments in FY 2002.

Debt Service and Miscellaneous



Debt Services and Miscellaneous includes the annual principal and interest payments due on System bonds and the associated paying agent fees. Typically, annual principal and interest payments are structured to provide relatively level debt service requirements from year to year until such time as additional bonds are issued.

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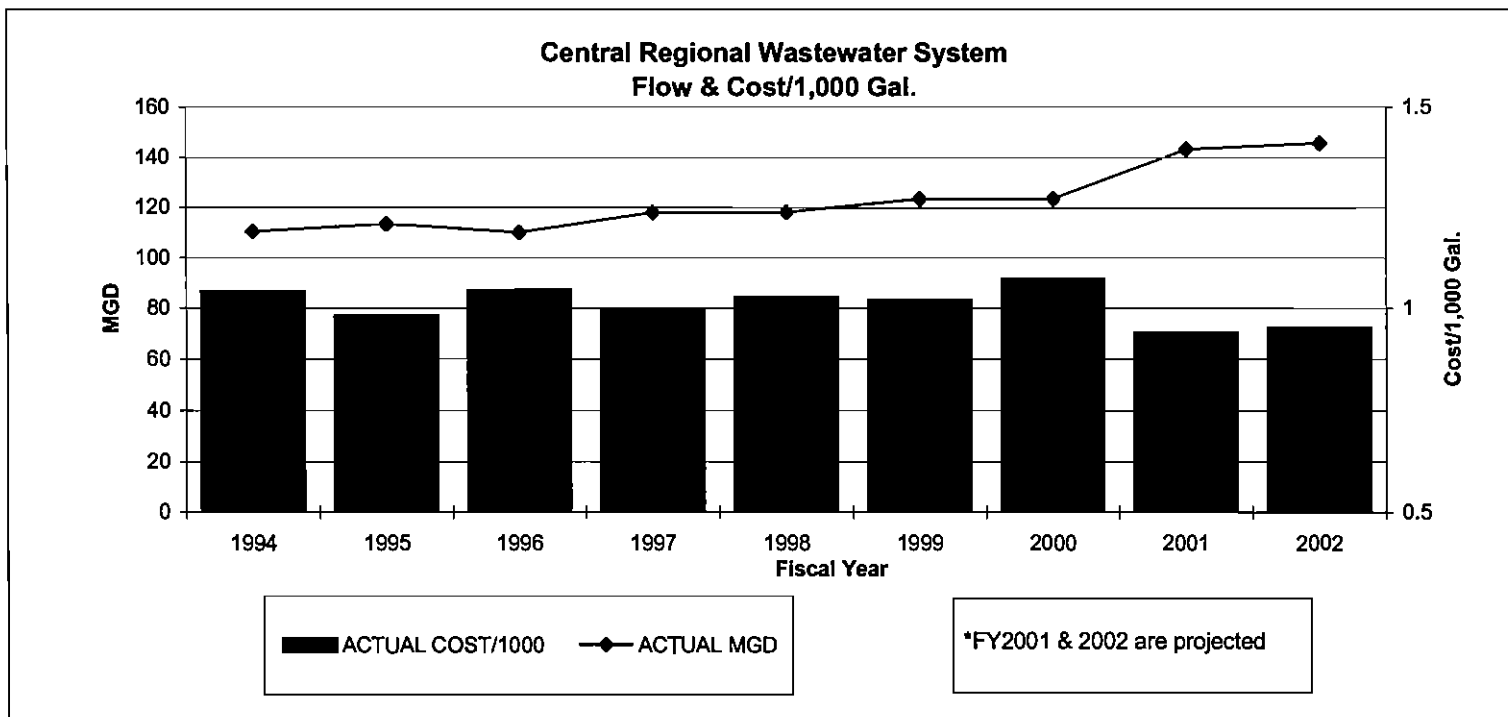
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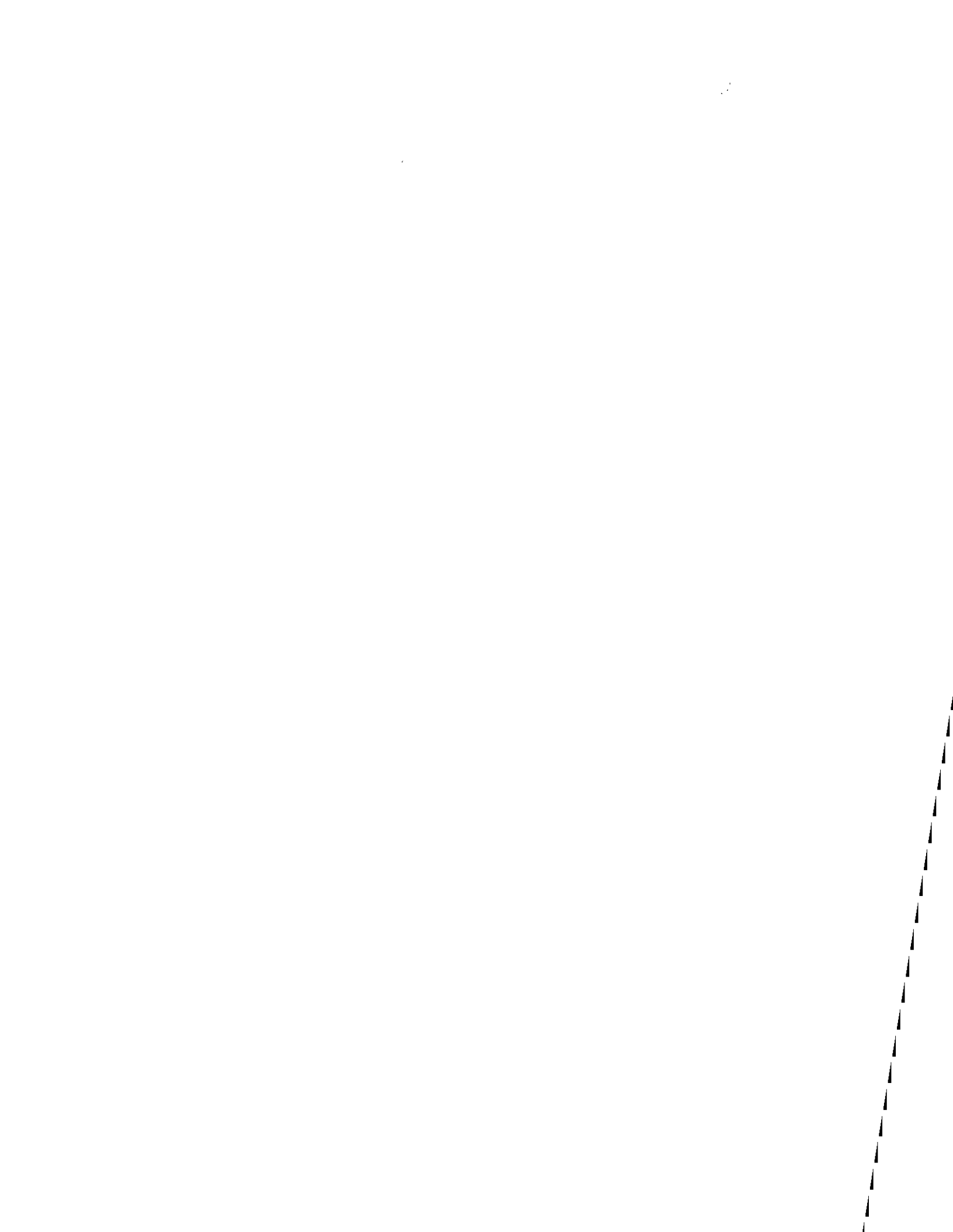
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**EXHIBIT I
CENTRAL REGIONAL WASTEWATER SYSTEM
CURRENT AND HISTORICAL SYSTEM FINANCIAL AND FLOW DATA**

FISCAL YEAR	BUDGETED EXPENDITURES	ACTUAL EXPENDITURES	BUDGETED REVENUE	ACTUAL REVENUE	PROJECTED FLOW	ACTUAL FLOW	PROJECTED NET COST/1,000 GAL.	ACTUAL COST/1,000 GAL.
1994	\$44,175,725	\$43,962,791	\$41,306,825	\$41,922,847	110.00 MGD	110.40 MGD	\$1.0290	\$1.0404
1995	\$44,817,530	\$43,621,706	\$41,915,240	\$40,594,960	112.37 MGD	113.37 MGD	\$1.0220	\$0.9810
1996	\$47,693,245	\$46,327,057	\$44,889,460	\$42,064,179	114.14 MGD	110.08 MGD	\$1.0745	\$1.0440
1997	\$48,358,525	\$47,401,825	\$45,233,590	\$42,891,464	116.00 MGD	118.01 MGD	\$1.0683	\$0.9958
1998	\$47,014,070	\$46,752,148	\$43,601,935	\$43,673,073	118.28 MGD	118.04 MGD	\$1.0099	\$1.0136
1999	\$50,390,530	\$50,691,945	\$45,859,710	\$45,808,213	123.31 MGD	120.64 MGD	\$1.0189	\$1.0403
2000	\$51,066,490	\$51,361,749	\$47,812,790	\$48,442,041	127.41 MGD	123.47 MGD	\$1.0253	\$1.0720
2001	\$54,509,150	*	\$49,187,660	*	143.13 MGD	*	\$0.9415	*
2002	\$54,352,130	*	\$50,422,440	*	145.52 MGD	*	\$0.9493	*





**EXHIBIT J
CENTRAL REGIONAL WASTEWATER SYSTEM
PROJECTED FUTURE COST OF SERVICE**

FISCAL YR. ENDING NOV. 30	PROJECTED FLOW (MGD)	GROSS COST PER 1,000 GAL.	NET COST PER 1,000 GAL.
2002	145.5	\$1.023	\$0.949
2003	147.5	\$1.059	\$1.006
2004	149.5	\$1.070	\$1.017
2005	151.5	\$1.171	\$1.112
2006	153.8	\$1.174	\$1.115
2007	156.1	\$1.239	\$1.177

(1) NET COST IS PROJECTED TO BE 95% OF GROSS COST BASED UPON HISTORICAL TRENDS FOR FY 2003 THROUGH FY 2007.

(2) UNIT COST CALCULATION FOR FY 2003 THROUGH FY 2007 INCLUDES PROJECTED ADDITIONAL DEBT TO FINANCE PLANT AND COLLECTION SYSTEM IMPROVEMENTS.

(3) PROJECTED FLOW IS BASED UPON THE EXISTING SYSTEM'S CONTRACTING PARTIES ANTICIPATED FLOWS.



**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
Enterprise Fund**

Description of the Project

The Central Regional Wastewater System (CRWS) consists of a treatment plant and appurtenances rated at 162 Million Gallons Per Day (MGD), interceptor pipelines, lift stations, meter stations, and facilities for the delivery of treated effluent for irrigation and level control under the first major urban reuse program in Texas.

CRWS provides wastewater transportation and treatment for the Cities of Irving, Grand Prairie, Farmers Branch, Dallas, Carrollton, Coppell, Cedar Hill, Euless, Bedford, Fort Worth, Arlington, Colleyville, Dallas/Fort Worth International Airport, Grapevine, Mansfield, Hurst, North Richland Hills, Duncanville, Southlake, Keller, and Addison. The estimated average daily volume of wastewater predicted to be received from the contributing cities in Fiscal Year 2002 is 145.552 Millions of Gallons Per Day (MGD).

City	2002		2001	
	Percent Contribution	Amount MGD	Percent Contribution	Amount MGD
Irving	20.616%	30.000	20.890%	29.900
Grand Prairie	11.138%	16.208	11.102%	15.890
Arlington	28.230%	41.080	27.848%	39.860
Farmers Branch	4.604%	6.700	4.541%	6.500
Dallas	5.154%	7.500	5.030%	7.200
Euless	2.817%	4.100	2.795%	4.000
Carrollton	8.315%	12.100	8.524%	12.200
D/FW Airport	1.587%	2.310	1.467%	2.100
Bedford	3.206%	4.666	3.745%	5.360
Coppell	2.543%	3.700	2.498%	3.575
Colleyville	1.745%	2.539	1.708%	2.445
Fort Worth	0.871%	1.267	0.838%	1.200
Grapevine	1.635%	2.380	1.903%	2.724
Mansfield	2.233%	3.250	2.159%	3.090
Hurst	0.126%	0.183	0.122%	0.175
North Richland Hills	0.388%	0.565	0.377%	0.540
Duncanville	0.137%	0.200	0.140%	0.200
Keller	1.659%	2.415	1.292%	1.850
Southlake	1.164%	1.694	1.183%	1.694
Cedar Hill	0.168%	0.245	0.147%	0.210
Addison	1.664%	2.420	1.691%	2.420
Totals	100.000%	145.522	100.000%	143.133

Located on 495 acres adjacent to the West Fork of the Trinity River, the CRWS Facility initiated operation in December 1959, initially serving four cities. The original plant consisted of a trickling filter process with a capacity of 30 MGD. The capacity was increased to 60 MGD in 1976 by the addition of mechanical dewatering equipment and an activated sludge process.

In 1980, a two phase expansion program was completed that increased the capacity to 100 MGD and provided tertiary treatment. Growth in the service area resulted in the expansion of the CRWS facility to a capacity of 135 MGD, with construction initiated in 1988 and completed in early 1994. Effluent discharged from CRWS consistently meets or exceeds the requirements specified in the TPDES permit issued by the Texas Natural Resource Conservation Commission (TNRCC). TNRCC approved an uprating of the discharge permit to an effluent level of 162 MGD with the completion of the solids dewatering project on April 1, 2001.

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
Enterprise Fund**

Work Program

To maintain and operate the Central Plant on a 24-hour a day, 7-day a week basis requires a staff of three (3) department managers reporting to the Project Manager. In addition to the management staff, including purchasing and the inventory department, staffing is as follows:

System Operation and Maintenance	97
Administration Services	8
Technical Services	43
Northern Region Purchasing	7
Pretreatment	<u>8</u>
	163

The responsibility for selecting process parameters, actual treatment of wastewater, process and non-process equipment maintenance, maintenance, repair of electrical and electronic equipment, lift station maintenance sludge disposal and computer monitoring of plant processes lies with the Manager, System Operations, and the Operation and Maintenance Department.

The Manager, Administrative Services and staff provide support at the Central System in the areas of human resource administration, benefits, training, clerical, accounts payable, payroll, and capital asset control and data processing.

The Manager, Technical Services and staff provide analytical data for process control, influent monitoring and effluent quality reports. The Laboratory and Pretreatment Programs provide analytical and technic assistance to cities, state, and/or federal agencies and other TRA Projects on a contract basis. Engineering Services provide inspection and surveillance of the collection system and monitoring of flows from the Cities into the system.

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
TOTAL FUND SUMMARY

FUNDS AVAILABLE

Projected December 1, 2001 \$ 15,878,390

ESTIMATED SOURCES OF FUNDS

Contract Revenue	\$	50,422,440	
Operating Overhead		692,390	
Professional Fees		450,000	
Interest Income		2,335,350	
Miscellaneous Income		735,260	54,635,440

TOTAL FUNDS AVAILABLE \$ 70,513,830

ESTIMATED APPLICATION OF FUNDS

Appropriation Expenditures:

Personal Services	\$	7,901,870	
Supplies		3,177,200	
Other Services and Charges		12,104,910	
Capital Outlays		887,950	
Debt Service and Miscellaneous		30,280,200	54,352,130

TOTAL FUNDS APPLIED \$ 54,352,130

FUNDS AVAILABLE

Projected November 30, 2002 \$ 16,161,700

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
REVENUE SUMMARY

<u>DESCRIPTION OF REVENUE</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>	<u>Actual 2000</u>
<u>Contract and Operating Overhead Revenue</u>			
(3010) Contract Revenue - Irving	\$ 10,395,090	\$ 10,275,130	\$ 10,878,962
(3020) Contract Revenue - Grand Prairie	5,616,050	5,460,600	5,733,497
(3030) Contract Revenue - Arlington	14,234,260	13,697,890	11,146,370
(3040) Contract Revenue - Farmers Branch	2,321,450	2,233,720	2,165,780
(3050) Contract Revenue - Dallas	2,598,770	2,474,280	2,862,402
(3060) Contract Revenue - Euless	1,420,400	1,374,600	1,415,921
(3070) Contract Revenue - Carrollton	4,192,630	4,192,530	4,394,288
(3080) Contract Revenue - D/FW Airport	800,200	721,670	842,173
(3090) Contract Revenue - Bedford	1,616,540	1,841,960	1,814,314
(3100) Contract Revenue - Coppell	1,282,240	1,228,550	1,371,868
(3110) Contract Revenue - Colleyville	879,870	840,230	881,431
(3120) Contract Revenue - Fort Worth	439,180	412,380	460,641
(3130) Contract Revenue - Grapevine	824,410	936,100	669,414
(3140) Contract Revenue - Mansfield	1,125,930	1,061,880	1,212,841
(3150) Contract Revenue - Hurst	63,530	60,140	68,953
(3160) Contract Revenue - North Richland Hills	195,640	185,570	205,421
(3170) Contract Revenue - Duncanville	69,080	68,730	76,667
(3180) Contract Revenue - Keller	836,510	635,750	727,855
(3190) Contract Revenue - Southlake	586,920	582,140	513,908
(3200) Contract Revenue - Cedar Hill	84,710	72,170	80,021
(3210) Contract Revenue - Addison	839,030	831,640	919,314
(3390) Operating Overhead - Other Projects	692,390	666,590	554,960
Total Contract and Operating Overhead Revenue	<u>51,114,830</u>	<u>49,854,250</u>	<u>48,997,001</u>
<u>Professional Fees</u>			
(3980) Professional Fees	450,000	425,000	422,721
Total Professional Fees	<u>450,000</u>	<u>425,000</u>	<u>422,721</u>
<u>Interest Income</u>			
(3810) Interest Income - Interest & Sinking Fund	489,580	517,900	652,785
(3820) Interest Income - Reserve Fund	1,416,420	1,490,560	1,465,027
(3840) Interest Income - Revenue Fund	336,320	214,700	448,431
(3870) Interest Income - Emergency	93,030	49,400	124,042
Total Interest Income	<u>\$ 2,335,350</u>	<u>\$ 2,272,560</u>	<u>\$ 2,690,284</u>

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
REVENUE SUMMARY

<u>DESCRIPTION OF REVENUE</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>	<u>Actual 2000</u>
Miscellaneous Income			
(3400) Overstrength Surcharge	\$ 600,000	\$ 675,000	\$ 525,340
(3410) Northeast Lakeview Lift Station	14,650	17,150	97,300
(3430) Pretreatment Revenue	22,000	35,000	28,866
(3440) Commodity Charge	51,810	56,850	187,185
(3480) Quantity Surcharge	36,800	25,000	30,443
(3990) Miscellaneous Income	<u>10,000</u>	<u>10,000</u>	<u>6,926</u>
Total Miscellaneous Income	<u>735,260</u>	<u>819,000</u>	<u>876,060</u>
Grand Total	<u>\$ 54,635,440</u>	<u>\$ 53,370,810</u>	<u>\$ 52,986,066</u>

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
EXPENDITURE SUMMARY

<u>DESCRIPTION OF EXPENDITURE</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>	<u>Actual 2000</u>
<u>PERSONAL SERVICES</u>			
(4000) Salaries - Regular	\$ 6,251,780	\$ 5,680,620	\$ 5,048,480
(4020) Payroll Taxes - Fica	478,260	434,580	374,943
(4030) Emp. Ben - Health/Life Ins.	411,770	406,070	326,296
(4040) Employee Benefit - Pension	715,800	649,040	520,108
(4060) Unemployment Compensation	20,000	20,000	1,648
(4070) Emp. Recognition Program	15,260	14,000	13,578
(4080) Employee Benefit - Education	9,000	9,200	3,030
TOTAL PERSONAL SERVICES	<u>7,901,870</u>	<u>7,213,510</u>	<u>6,288,083</u>
<u>SUPPLIES</u>			
(4100) Office Supplies	51,200	50,950	35,245
(4110) Dues and Subscriptions	54,860	52,750	53,739
(4120) Fees Other Than Dues and Subscriptions	86,910	83,940	4,404
(4130) Maintenance and Operating Supplies	146,590	162,440	113,785
(4140) Lab Supplies	273,350	267,800	232,451
(4150) Process Chemicals and Supplies	2,421,900	1,863,540	1,882,169
(4160) Fuel, Oil, & Lubricants	104,440	91,770	92,515
(4170) Computer and Instrument Supplies	37,950	32,950	38,596
TOTAL SUPPLIES	<u>3,177,200</u>	<u>2,606,140</u>	<u>2,452,904</u>
<u>OTHER SERVICES AND CHARGES</u>			
(4200) Auditing	36,000	35,500	43,356
(4210) Engineering	160,000	150,000	109,022
(4220) Legal	20,000	20,000	1,307
(4230) Outside Services	335,620	284,960	205,222
(4240) Other Professional Services	175,650	160,620	132,264
(4300) Telephone and Telemetering	106,570	95,150	88,560
(4310) Postage	8,220	6,320	7,452
(4320) Printing and Binding	12,730	13,810	10,564
(4330) Insurance Payments	179,420	140,760	105,654
(4360) Travel	16,500	14,270	15,721
(4370) Laundry, Uniform, & Ind. Equip	44,350	62,450	83,410
(4380) Training	111,940	111,940	44,961
(4400) Utilities	105,000	100,000	75,125
(4420) Power	4,832,800	3,500,000	3,425,578
(4430) R & M - Collection System	245,000	246,000	180,585
(4440) R & M - Equipment	218,300	242,450	140,097
(4450) R & M - Plant & Buildings	777,350	645,000	404,576
(4460) R & M - Vehicles	40,400	40,600	29,913
(4480) R & M - Electrical	510,150	370,150	403,390
(4490) Off-site Biosolid Land Application	2,534,140	2,804,390	1,623,955
(4510) Rent - Machinery & Equip.	88,810	73,580	50,466
(4660) Administrative Overhead	1,545,960	1,455,730	1,244,130
TOTAL OTHER SERVICES AND CHARGES	<u>12,104,910</u>	<u>10,573,680</u>	<u>8,425,308</u>

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
EXPENDITURE SUMMARY

<u>DESCRIPTION OF EXPENDITURE</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>	<u>Actual 2000</u>
<u>CAPITAL OUTLAYS</u>			
(4760) Machinery & Equipment	\$ 887,950	\$ 500,750	\$ 529,445
TOTAL CAPITAL OUTLAYS	<u>887,950</u>	<u>500,750</u>	<u>529,445</u>
<u>DEBT SERVICE AND MISCELLANEOUS*</u>			
(4800) Bond Principal Payments	15,580,000	18,995,000	18,145,000
(4810) Interest on Long-Term Debt	14,674,200	14,594,070	15,519,500
(4830) Paying Agent Fees	<u>26,000</u>	<u>26,000</u>	<u>1,509</u>
TOTAL DEBT SERVICE AND MISCELLANEOUS	<u>30,280,200</u>	<u>33,615,070</u>	<u>33,666,009</u>
GRAND TOTAL	<u>\$ 54,352,130</u>	<u>\$ 54,509,150</u>	<u>\$ 51,361,749</u>

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
REVENUE WORKSHEET**

CONTRACT REVENUE

Proposed

Operation & Maintenance				
Total Expenditures				\$ 24,097,930.00
Less Other Revenue Sources:				
Operating Overhead				(692,390.00)
Professional Fees				(450,000.00)
Pretreatment Revenue				(22,000.00)
Commodity Charge				(51,810.00)
Miscellaneous Income				(10,000.00)
Overstrength Surcharge				(600,000.00)
Zone B & Quantity Surcharge				(36,800.00)
Northeast Lakeview Lift Station				<u>(14,650.00)</u>
Total Other Revenue Sources				<u>(1,877,650.00)</u>
Net Operation and Maintenance to be Billed Monthly				22,220,280.00
Debt Service				
Principal on Bonds:				
Due 8/01/2002:	15,580,000.00	x	8/12	10,386,666.67
Due 8/01/2003:	16,430,000.00	x	4/12	5,476,666.67
Interest on Bonds:				
Due 2/01/2002:	6,990,863.13	x	2/6	2,330,287.71
Due 8/01/2002:	6,990,863.13	x	6/6	6,990,863.13
Due 2/01/2003:	8,029,566.88	x	4/6	5,353,044.59
Rounding				1.24
Less: Interest Income				<u>(2,335,350.00)</u>
Net Debt Service to Billed Monthly				<u>28,202,180.00</u>
TOTAL CONTRACT REVENUE				<u>\$ 50,422,460.00</u>

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(3010) Contract Revenue - Irving</u>			
(1106.3010) Operation & Maintenance			
\$22,220,280 x 20.616%	\$ 4,580,932.92		
(1108.3010) Debt Service			
\$28,202,180 x 20.616%	5,814,161.43		
Rounding	<u>(4.35)</u>		
Total Annual Requirement		\$ 10,395,090	\$ 10,275,130
<u>(3020) Contract Revenue - Grand Prairie</u>			
(1106.3020) Operation & Maintenance			
\$22,220,280 x 11.138%	2,474,894.79		
(1108.3020) Debt Service			
\$28,202,180 x 11.138%	3,141,158.81		
Rounding	<u>(3.59)</u>		
Total Annual Requirement		5,616,050	5,460,600
<u>(3030) Contract Revenue - Arlington</u>			
(1106.3030) Operation & Maintenance			
\$22,220,280 x 28.230%	6,272,785.04		
(1108.3030) Debt Service			
\$28,202,180 x 28.230%	7,961,475.41		
Rounding	<u>(0.46)</u>		
Total Annual Requirement		14,234,260	13,697,890
<u>(3040) Contract Revenue - Farmers Branch</u>			
(1106.3040) Operation & Maintenance			
\$22,220,280 x 4.604%	1,023,021.69		
(1108.3040) Debt Service			
\$28,202,180 x 4.604%	1,298,428.37		
Rounding	<u>(0.06)</u>		
Total Annual Requirement		2,321,450	2,233,720
<u>(3050) Contract Revenue - Dallas</u>			
(1106.3050) Operation & Maintenance			
\$22,220,280 x 5.154%	1,145,233.23		
(1108.3050) Debt Service			
\$28,202,180 x 5.154%	1,453,540.36		
Rounding	<u>(3.59)</u>		
Total Annual Requirement		2,598,770	2,474,280

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(3060) Contract Revenue - Euless</u>			
(1106.3060) Operation & Maintenance			
\$22,220,280 x 2.817%	\$ 625,945.29		
(1108.3060) Debt Service			
\$28,202,180 x 2.817%	794,455.41		
Rounding	(0.70)		
Total Annual Requirement		\$ 1,420,400	\$ 1,374,600
<u>(3070) Contract Revenue - Carrollton</u>			
(1106.3070) Operation & Maintenance			
\$22,220,280 x 8.315%	1,847,616.28		
(1108.3070) Debt Service			
\$28,202,180 x 8.315%	2,345,011.27		
Rounding	2.45		
Total Annual Requirement		4,192,630	4,192,530
<u>(3080) Contract Revenue - D/FW Airport</u>			
(1106.3080) Operation & Maintenance			
\$22,220,280 x 1.587%	352,635.84		
(1108.3080) Debt Service			
\$28,202,180 x 1.587%	447,568.60		
Rounding	(4.44)		
Total Annual Requirement		800,200	721,670
<u>(3090) Contract Revenue - Bedford</u>			
(1106.3090) Operation & Maintenance			
\$22,220,280 x 3.206%	712,382.18		
(1108.3090) Debt Service			
\$28,202,180 x 3.206%	904,161.89		
Rounding	(4.07)		
Total Annual Requirement		1,616,540	1,841,960
<u>(3100) Contract Revenue - Coppell</u>			
(1106.3100) Operation & Maintenance			
\$22,220,280 x 2.543%	565,061.72		
(1108.3100) Debt Service			
\$28,202,180 x 2.543%	717,181.44		
Rounding	(3.16)		
Total Annual Requirement		1,282,240	1,228,550

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(3110) Contract Revenue - Colleyville</u>			
(1106.3110) Operation & Maintenance			
\$22,220,280 x 1.745%	\$ 387,743.89		
(1108.3110) Debt Service			
\$28,202,180 x 1.745%	492,128.04		
Rounding	(1.93)		
Total Annual Requirement		\$ 879,870	\$ 840,230
<u>(3120) Contract Revenue - Fort Worth</u>			
(1106.3120) Operation & Maintenance			
\$22,220,280 x 0.871%	193,538.64		
(1108.3120) Debt Service			
\$28,202,180 x 0.871%	245,640.99		
Rounding	0.37		
Total Annual Requirement		439,180	412,380
<u>(3130) Contract Revenue - Grapevine</u>			
(1106.3130) Operation & Maintenance			
\$22,220,280 x 1.635%	363,301.58		
(1108.3130) Debt Service			
\$28,202,180 x 1.635%	461,105.64		
Rounding	2.78		
Total Annual Requirement		824,410	936,100
<u>(3140) Contract Revenue - Mansfield</u>			
(1106.3140) Operation & Maintenance			
\$22,220,280 x 2.233%	496,178.85		
(1108.3140) Debt Service			
\$28,202,180 x 2.233%	629,754.68		
Rounding	(3.53)		
Total Annual Requirement		1,125,930	1,061,880
<u>(3150) Contract Revenue - Hurst</u>			
(1106.3150) Operation & Maintenance			
\$22,220,280 x 0.126%	27,997.55		
(1108.3150) Debt Service			
\$28,202,180 x 0.126%	35,534.75		
Rounding	(2.30)		
Total Annual Requirement		63,530	60,140

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED REVENUE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(3160) Contract Revenue - North Richland Hills</u>			
(1106.3160) Operation & Maintenance			
\$22,220,280 x 0.388%	\$ 86,214.69		
(1108.3160) Debt Service			
\$28,202,180 x 0.388%	109,424.46		
Rounding	<u>0.86</u>		
Total Annual Requirement		\$ 195,640	\$ 185,570
<u>(3170) Contract Revenue - Duncanville</u>			
(1106.3170) Operation & Maintenance			
\$22,220,280 x 0.137%	30,441.78		
(1108.3170) Debt Service			
\$28,202,180 x 0.137%	38,636.99		
Rounding	<u>1.23</u>		
Total Annual Requirement		69,080	68,730
<u>(3180) Contract Revenue - Keller</u>			
(1106.3180) Operation & Maintenance			
\$22,220,280 x 1.659%	368,634.45		
(1108.3180) Debt Service			
\$28,202,180 x 1.659%	467,874.17		
Rounding	<u>1.39</u>		
Total Annual Requirement		836,510	635,750
<u>(3190) Contract Revenue - Southlake</u>			
(1106.3190) Operation & Maintenance			
\$22,220,280 x 1.164%	258,644.06		
(1108.3190) Debt Service			
\$28,202,180 x 1.164%	328,273.38		
Rounding	<u>2.57</u>		
Total Annual Requirement		586,920	582,140
<u>(3200) Contract Revenue - Cedar Hill</u>			
(1106.3200) Operation & Maintenance			
\$22,220,280 x 0.168%	37,330.07		
(1108.3200) Debt Service			
\$28,202,180 x 0.168%	47,379.66		
Rounding	<u>0.27</u>		
Total Annual Requirement		84,710	72,170

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED REVENUE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(3210) Contract Revenue - Addison</u>			
(1106.3210) Operation & Maintenance			
\$22,220,280 x 1.664%	\$ 369,745.46		
(1108.321) Debt Service			
\$28,202,180 x 1.664%	469,284.28		
Rounding	0.27		
Total Annual Requirement		\$ 839,030	\$ 831,640
<u>(1106.3390) Operating Overhead - Other Projects</u>			
Coppell	800.00		
Clean Rivers Program (TNRCC)	37,000.00		
DCURD #1	356,390.00		
Denton Creek	44,900.00		
Joe Pool Lake	25,000.00		
Red Oak Creek	13,550.00		
Tarrant County	61,640.00		
Ten Mile Creek	132,810.00		
Walker-Calloway Branches	21,100.00		
Total Annual Requirement		692,390	666,590
<u>(1106.3980) Professional Fees</u>		450,000	425,000
<u>(1108.3810) Interest Income - I & S</u>		489,580	517,900
<u>(1108.3820) Interest Income - Reserve Fund</u>		1,416,420	1,490,560
<u>(110.8.3840) Interest Income - Revenue Fund</u>		336,320	214,700
<u>(1108.3870) Interest Income - Emergency Fund</u>		93,030	49,400
<u>(1106.3400) Overstrength Surcharge</u>		600,000	675,000
<u>(1106.3410) Northeast Lakeview Lift Station</u>		14,650	17,150
<u>(1106.3430) Pretreatment Revenue</u>		22,000	35,000
<u>(1106.3440) Commodity Charge</u>		51,810	56,850
<u>(1106.3480) Quantity Surcharge</u>			
City of Addison		36,800	25,000
<u>(1106.3990) Miscellaneous Income</u>		10,000	10,000

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>Number of Employees</u>	<u>Budget Amount</u>
Salaries Under the Salary Administration Plan for the Following:		
Manager, Central Regional Wastewater System	1	
Maintenance Engineer	1	
Sub-Total	2	
Manager, System Operation	1	
Operations Division Chief	2	
Chief Operator	8	
Senior Operator	7	
Operator II	10	
Operator I	14	
Maintenance Division Chief	2	
Chief Maintenance Mechanic	6	
Senior Maintenance Mechanic	16	
Maintenance Mechanic II	14	
Maintenance Mechanic I	2	
E/E Division Chief	1	
Chief Electrician	1	
Chief Electronic Technician	1	
Senior Electrician	2	
Senior Electronic Technician	3	
Electronic Technician II	1	
Electrician II	3	
Senior HVAC Technician	1	
Senior Landfill Operator	0	
Chief Landfill Operator	0	
Proc. Maint Planner/Scheduler	1	
Information Systems Technician	1	
Sub-Total	97	

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED REGULAR SALARIES**

<u>DESCRIPTION</u>	<u>Number of Employees</u>	<u>Budget Amount</u>
Manager, Technical Services	1	
Laboratory Division Chief	1	
Laboratory Supervisor	3	
Quality Assurance Coordinator	1	
Senior Biologist	2	
Senior Chemist	5	
Biologist	7	
Chemist	2	
Laboratory Technician II	2	
Laboratory Technician I	1	
Laboratory Technician/Bookkeeper	1	
Technical Services Engineer	1	
Environmental Services Coordinator	1	
Interceptor System Specialist	2	
Chief Maintenance Mechanic	1	
Senior Maintenance Mechanic	2	
Maintenance Mechanic II	5	
Maintenance Mechanic I	0	
Chief Electronic Technician (Instrument Technician)	1	
Senior Electronic Technician (Instrument Technician)	1	
Electronic Technician II (Instrument Technician)	3	
Field Technician II	1	
Sub-Total	44	
Manager, Administrative Services	1	
Office Coordinator	1	
Senior Secretary	5	
Accounting Clerk	1	
Training Coordinator	1	
Sub-Total	9	
Purchasing/Warehouse		
Purchase/Warehouse Supervisor	1	
Senior Buyer	0	
Buyer	2	
Assistant Buyer	1	
Senior Storekeeper	2	
Senior Secretary	1	
Sub-Total	7	
Total Project Positions W/O Pretreatment	159	

TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED REGULAR SALARIES

<u>DESCRIPTION</u>	<u>Number of Employees</u>	<u>Budget Amount</u>
Total Project Base Salaries w/Shift Diff		\$ 5,673,321
Total Project Holiday and Overtime Pay		278,156
Rounding		<u>3</u>
Total Project Salaries		5,951,480
Pretreatment		
Pretreatment Coordinator	1	
Senior Secretary	1	
Environmental Inspector	3	
Senior Field Technician	2	
Field Technician II	<u>1</u>	
Total Pretreatment Positions	8	
Total Pretreatment Base Salaries w/Shift Diff		291,637
Total Pretreatment Holiday and Overtime Pay		8,659
Rounding		<u>4</u>
Total Pretreatment Salaries		300,300
Total FY 2002 Budgeted Positions	<u>167</u>	
Total FY 2002 Budgeted Salaries		<u>\$ 6,251,780</u>

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4000) SALARIES - REGULAR</u>			
(01) PROJECT 159 Employees	\$ 5,951,480.00		
(01) PRETREATMENT 8 Employees	<u>300,300.00</u>		
Total Salaries - Regular		\$ 6,251,780	\$ 5,680,620
<u>(1106.4020) PAYROLL TAXES - FICA</u>			
(01) PROJECT \$ 5,951,480.00 x 7.65% =	455,290.00		
(01) PRETREATMENT \$ 300,300.00 x 7.65% =	<u>22,970.00</u>		
Total Payroll Taxes - Fica		478,260	434,580
<u>(1106.4030) EMPLOYEE BENEFIT - HEALTH/LIFE INSURANCE</u>			
PROJECT			
(01) Hospitalization	323,202.00		
(02) Life Insurance/AD&D:	33,211.00		
(03) Long Term Disability:	32,740.00		
(04) Employee Assistance Program:	4,770.00		
PRETREATMENT			
(01) Hospitalization:	14,282.00		
(02) Life Insurance:	1,676.00		
(03) Long Term Disability:	1,652.00		
(04) Employee Assistance Program: rounding	240.00 <u>(3.00)</u>		
Total Emp. Ben. - Health/Life Insurance		411,770	406,070
<u>(1106.4040) EMPLOYEE BENEFIT - PENSION</u>			
(01)PROJECT	680,800.00		
(01) PRETREATMENT	<u>35,000.00</u>		
Total Emp. Ben. - Pension		715,800	649,040
<u>(1106.4060) UNEMPLOYMENT COMPENSATION</u>			
(01) PROJECT	19,300.00		
(01) PRETREATMENT	<u>700.00</u>		
Total Unemployment Compensation		20,000	20,000

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4070) EMPLOYEE RECOGNITION PROGRAM</u>			
(01) PROJECT			
Service Awards	\$ 15,260.00		
(01) PRETREATMENT	-		
Total Employee Recognition Program		\$ 15,260	\$ 14,000
<u>(1106.4080) EMPLOYEE BENEFIT - EDUCATION</u>			
(01) PROJECT	7,500.00		
(01) PRETREATMENT	1,500.00		
Total Employee Benefit - Education		9,000	9,200
Total Personal Services		7,423,610	7,213,510
<u>(1106.4100) OFFICE SUPPLIES</u>			
PROJECT			
(01) Consumables	16,300.00		
(02) Non-Consumables	9,150.00		
(03) Computer/Copier Supplies	14,500.00		
(05) Vending and Lunchroom Supplies	9,000.00		
PRETREATMENT			
(01) Consumables	300.00		
(02) Non-Consumables	500.00		
(03) Computer/Copier Supplies	1,300.00		
(05) Vending and Lunchroom Supplies	150.00		
Total Office Supplies		51,200	50,950
<u>(1106.4110) DUES & SUBSCRIPTIONS</u>			
PROJECT			
(01) Professional/Technical Memberships			
AMSA/AWWA	11,920.00		
American Society for Human Resources	390.00		
American Water Resource Association	250.00		
Chlorine Institute	700.00		
Natl Assoc of Purchasing Managers	700.00		
Nat Safety Council/TX Safety Association	250.00		
TX Water Utilities Association	180.00		
WEF/AEAT	1,520.00		
WERF	34,000.00		
(02) Periodicals/Magazines/Newspapers	1,900.00		
(03) Reference Books	1,900.00		
PRETREATMENT			
(01) Professional/Technical Memberships			
AMSA/AWWA	180.00		
(03) Reference Books	970.00		
Total Dues and Subscriptions		54,860	52,750

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4120) FEES OTHER THAN DUES & SUBSCRIPTIONS</u>			
PROJECT:			
(01) Certification Fees	\$ 5,400.00		
(02) TNRCC Inspection Fees	41,000.00		
(03) TNRCC Water Quality Assessment Fees	40,000.00		
(05) TNRCC Sludge Fee	100.00		
(06) Tier Two Fees	10.00		
PRETREATMENT			
(01) Certification Fees	<u>400.00</u>		
Total Fees Other Than Dues & Subscriptions		\$ 86,910	\$ 83,940

(1106.4130) MAINTENANCE AND OPERATING SUPPLIES

PROJECT			
(01) Repair/Replacement of Hand Tools	25,280.00		
(02) Operational Supplies	16,160.00		
(03) Maintenance Supplies	27,000.00		
(04) Ground Care Supplies	13,000.00		
(05) Janitorial and Cleaning Supplies	5,000.00		
(06) Electrical Supplies	25,000.00		
(07) Facilities Supplies	10,050.00		
(08) Protective/Safety Equipment	24,900.00		
PRETREATMENT			
(05) Janitorial and Cleaning Supplies:	<u>200.00</u>		
Total Maintenance and Operating Supplies		146,590	162,440

(1106.4140) LAB SUPPLIES

PROJECT	
(01) Gases	12,000.00
(02) Water System	4,000.00
(03) Bacti-Filters, Media and Supplies	65,000.00
(04) AA, ICP, and IR Supplies	8,000.00
(05) Gas Chromatog Supplies	13,000.00
(06) TOC and MCTS-10 Supplies	2,500.00
(07) Lab Apparatus	15,000.00
(08) Chemical Reagents	60,000.00
(09) Glassware, Plastics, and Disposables	55,000.00
(10) Filters, Glass Fiber, Prefilters and Membran	15,000.00
(11) Field Sampling Supplies	1,000.00
(12) Operational Supplies	6,500.00
(13) Nuclear Sources - Wipe Test & Refoil	300.00
(14) Other - Freight and Shipping	1,000.00

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4140) LAB SUPPLIES (Continued)</u>			
PRETREATMENT			
(07) Lab Apparatus	\$ 850.00		
(08) Chemical Reagents and Standards	500.00		
(09) Glassware, Plastics, and Disposables	2,900.00		
(11) Field Sampling Supplies	10,500.00		
(14) Other - Freight and Shipping	300.00		
Total Lab Supplies		\$ 273,350	\$ 267,800
<u>(1106.4150) PROCESS CHEMICALS AND SUPPLIES</u>			
PROJECT			
(01) Lime	1,139,200.00		
(02) Ferric Chloride	200,000.00		
(03) Chlorine	302,000.00		
(04) Polymer	434,100.00		
(05) Hydrochloric Acid	5,000.00		
(06) Sodium Hydroxide	8,000.00		
(07) Citric Acid	500.00		
(08) Filter Cloths	48,000.00		
(09) Tie Wraps, Bags, Sludge Judges, Etc.	7,000.00		
(10) Taste/Odor Control	70,000.00		
(11) Boiler Chemicals	2,000.00		
(12) Sulfur Dioxide	206,100.00		
Total Process Chemicals and Supplies		2,421,900	1,863,540
<u>(1106.4160) FUEL, OIL, AND LUBRICANTS</u>			
PROJECT			
(01) Gasoline	36,000.00		
(02) Diesel Fuel	19,000.00		
(03) Solvents/Cleaners	12,000.00		
(04) Anti-Freeze	1,950.00		
(05) Grease	5,420.00		
(06) Lubricants	25,000.00		
(07) Propane	800.00		
PRETREATMENT			
(01) Gasoline	4,000.00		
(04) Anti-Freeze	20.00		
(05) Grease	50.00		
(06) Lubricants	200.00		
Total Fuel, Oil, and Lubricants		104,440	91,770

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4170) COMPUTER AND INSTRUMENT SUPPLIES</u>			
PROJECT			
(01) Metering Supplies	\$ 10,000.00		
(02) Instrument Repair	16,000.00		
(03) Drafting/Engineering Supplies	3,500.00		
(04) Line Surveillance	3,000.00		
(05) FM Telemetry	2,000.00		
(06) Metering Electrical Repairs	3,000.00		
PRETREATMENT			
(01) Metering Supplies	150.00		
(02) Instrument Repair	<u>300.00</u>		
Total Computer and Instrument Supplies		\$ 37,950	\$ 32,950
Total Supplies		3,177,200	2,606,140
<u>(1106.4200) AUDITING</u>			
(01) Audit		36,000	35,500
<u>(1106.4210) ENGINEERING</u>			
PROJECT			
(01) Engineering Studies	30,000.00		
(02) I/I Prorations	80,000.00		
(03) Triennial Report/Annual Update	25,000.00		
(04) Pipeline Repairs/Erosion Control	<u>25,000.00</u>		
Total Engineering		160,000	150,000
<u>(1106.4220) LEGAL</u>			
(01) Legal		20,000	20,000
<u>(1106.4230) OUTSIDE SERVICES</u>			
PROJECT			
(01) Advertising	62,000.00		
(02) Graphics, Displays, Etc.	7,000.00		
(03) Construction Services Charges	12,000.00		
(04) Security Monitoring	3,600.00		
(05) Solid Waste Disposal (Odor Control)	34,000.00		
(06) Contract Labor	20,600.00		
(07) PC/Network/SCADA Support	195,220.00		
PRETREATMENT			
(01) Advertising	1,000.00		
(02) Graphics, Displays, Etc.	<u>200.00</u>		
Total Outside Services		335,620	284,960

**TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4240) OTHER PROFESSIONAL SERVICES</u>			
PROJECT			
(01) Drug Testing	\$ 9,000.00		
(02) U.S.G.S. Payments	26,500.00		
(03) Motor Vehicle Reports	900.00		
(04) Outside Testing - Laboratory	86,000.00		
(05) Custodian Fees	52,000.00		
PRETREATMENT			
(01) Drug Testing	50.00		
(04) Outside Testing - Laboratory	<u>1,200.00</u>		
Total Other Professional Services		\$ 175,650	\$ 160,620
<u>(1106.4300) TELEPHONE & TELEMETERING</u>			
PROJECT			
(01) Telephone/Telemetering	40,700.00		
(02) Pagers	5,400.00		
(03) Mobile Telephones (60)	39,620.00		
(04) Internet Access	14,830.00		
PRETREATMENT			
(01) Telephone/Telemetering	1,000.00		
(02) Pagers	360.00		
(03) Mobile Telephones (7)	<u>4,660.00</u>		
Total Telephone & Telemetering		106,570	95,150
<u>(1106.4310) POSTAGE</u>			
PROJECT			
(01) Postage Meter	1,500.00		
(02) Stamps/Shipping	6,000.00		
PRETREATMENT			
(01) Postage Meter	500.00		
(02) Stamps/Shipping	<u>220.00</u>		
Total Postage		8,220	6,320
<u>(1106.4320) PRINTING AND BINDING</u>			
PROJECT			
(01) Special Forms	4,970.00		
(02) Letterhead, Envelopes, and Stationary	3,500.00		
(03) Manuals, Handbooks, Etc.	3,000.00		
PRETREATMENT			
(01) Special Forms	950.00		
(02) Letterhead, Envelopes, and Stationary	<u>310.00</u>		
Total Printing and Binding		12,730	13,810

**TRINITY RIVER AUTHORITY OF TEXAS
PROPOSED O&M BUDGET - FISCAL YEAR 2002
Central Regional Wastewater System
DETAILED EXPENDITURE WORKSHEET**

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4330) INSURANCE PAYMENTS</u>			
PROJECT			
(01) Fire	\$ 94,740.00		
(02) General Liability	10,740.00		
(03) Automobile	21,460.00		
(04) Contractor Equipment	7,910.00		
(05) Workers' Compensation	32,640.00		
(06) Director/Officer's Liability	10,730.00		
(07) Blanket Bond	<u>1,200.00</u>		
Total Insurance Payments		\$ 179,420	\$ 140,760
<u>(1106.4360) TRAVEL</u>			
PROJECT			
(01) CRWS Employees on Authority Business	12,700.00		
(02) Others on Authority Business	1,100.00		
PRETREATMENT			
(01) CRWS Employees on Authority Business	2,500.00		
(02) Others on Authority Business	<u>200.00</u>		
Total Travel		16,500	14,270
<u>(1106.4370) LAUNDRY, UNIFORM & IND. EQUIP.</u>			
PROJECT			
(01) Uniform Rental	35,095.00		
(03) Patches/Hats	600.00		
(04) Towels, Mops, Mats	8,000.00		
PRETREATMENT			
(01) Uniform Rental	<u>655.00</u>		
Total Laundry, Uniform, & Ind. Equip.		44,350	62,450
<u>(1106.4380) TRAINING</u>			
PROJECT			
(01) Training			
Wastewater Certification Training	11,900.00		
Safety Training	11,920.00		
Technical Training	23,320.00		
Enhanced Skills/Supervisory Training	52,390.00		
Training Manuals/Videos	8,410.00		

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
PRETREATMENT			
(01) Training			
Wastewater Certification Training	600.00		
Safety Training	600.00		
Technical Training	1,180.00		
Enhanced Skills/Supervisory Training	1,200.00		
Training Manuals/Videos	420.00		
Total Training		\$ 111,940	\$ 111,940
(1106.4400) UTILITIES			
PROJECT			
(01) Natural Gas	80,000.00		
(02) Water	25,000.00		
Total Utilities		105,000	100,000
(1106.4420) POWER			
(01) Power		4,832,800	3,500,000
(1106.4430) R & M - COLLECTION SYSTEM			
PROJECT			
(01) Meter Station Structure Rehabilitation	18,000.00		
(02) Manhole/Junction Box Rehabilitation	21,000.00		
(03) System Repairs/Line Cleaning/TV	195,000.00		
(04) Lift Station/ROW Maintenance	11,000.00		
Total R & M - Collection System		245,000	246,000
(1106.4440) R & M - EQUIPMENT			
PROJECT			
(01) Shop Equipment	4,000.00		
(02) Dumpsters	5,400.00		
(03) Compressors and Generators	4,500.00		
(04) Fuel Powered and Electrical Equipment	11,200.00		
(05) Office and Video Equipment	5,100.00		
(06) Analytical Equip Repair - Non Contract	29,000.00		
(07) Service Contracts- Analytical Equipment	10,000.00		
(08) Perkins-Elmer Equipment	11,000.00		
(09) Mowers/Tractors	12,000.00		
(10) Tracked Vehicles & Heavy Equipment	50,000.00		
(11) Carts	3,000.00		
(12) Heavy Trucks	50,000.00		
(13) Trailers	15,000.00		
(15) Tire Repair	3,100.00		
(16) High Pressure Units	1,800.00		
(17) Forklifts	3,200.00		
Total R & M - Equipment		218,300	242,450

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4450) R & M - PLANT AND BUILDINGS</u>			
PROJECT			
(01) Packing and Seals	\$ 15,000.00		
(02) Road Repair Materials	48,750.00		
(03) Machine Shop Stock	5,000.00		
(04) Mechanical Plating and Coating	28,000.00		
(05) Clarifiers, Aeration, Equalization Basins	25,000.00		
(06) Specialized Balancing and Machining	5,000.00		
(07) Valves, Valve Operators, Pipe, Etc.	40,000.00		
(08) Positive Displacement Pumps/Repairs	125,000.00		
(09) Filter Press Parts	24,000.00		
(10) Pump Repair, Pump Parts, Machining	130,000.00		
(11) Conveyer System Parts	22,500.00		
(12) Industrial Air/Oil Filters	4,000.00		
(13) Power Transmission Parts/Repairs	40,000.00		
(14) Building/Structural Repair	25,000.00		
(15) Chlorination/Dechlorination	18,000.00		
(16) Railroad Repairs	21,000.00		
(17) Stormwater Regulations - Street Cleaning	9,600.00		
(18) Blower Parts/Repairs	39,500.00		
(19) Crane Inspection & Servicing	17,000.00		
(20) Anaerobic Digester Clean/Rehab	<u>135,000.00</u>		
 Total R & M - Plant and Buildings		 \$ 777,350	 \$ 645,000
<u>(1106.4460) R & M - VEHICLES</u>			
PROJECT			
(01) Automobiles	5,000.00		
(02) Pickup Trucks	24,150.00		
(03) Tire Repair	7,150.00		
(04) Other- Batteries, Wiper Blades, etc.	2,000.00		
PRETREATMENT			
(02) Pickup Trucks	1,500.00		
(03) Tire Repair	<u>600.00</u>		
 Total R & M - Vehicles		 40,400	 40,600

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4480) R & M - ELECTRICAL</u>			
PROJECT			
(01) Components	\$ 30,000.00		
(02) Signal Cable and Wire	6,000.00		
(03) Electronic Equipment Repair	60,150.00		
(04) Repairs of Pneumatic Systems	1,000.00		
(05) FM Telemetry	2,000.00		
(06) Computer Maintenance	30,000.00		
(07) Vendor Service/Repair	70,000.00		
(08) Calibration	5,000.00		
(09) Electrical Parts & Materials	150,000.00		
(10) Motor Overhaul	100,000.00		
(11) HVAC Parts and Repair	50,000.00		
(12) Elevator Repair and Service	5,000.00		
(13) Cathodic Test	<u>1,000.00</u>		
 Total R & M - Electrical		\$ 510,150	\$ 370,150
<u>(1106.4490) OFF-SITE BIOSOLID LAND APPLICATION</u>			
(02) Beneficial Reuse		2,534,140	2,804,390
<u>(1106.4510) RENT - MACHINERY & EQUIPMENT</u>			
PROJECT			
(01) Cranes and Other Heavy Equipment	18,000.00		
(02) Compressors and Special Equipment	17,580.00		
(03) Postage Meter	1,440.00		
(04) Tool Rental	1,000.00		
(05) Copier Rental	34,790.00		
(07) Cylinder Rental	10,000.00		
(08) Other Rental	<u>6,000.00</u>		
 Total Rent - Machinery & Equipment		88,810	73,580
<u>(1106.4660) ADMINISTRATIVE OVERHEAD</u>			
PROJECT			
(01) Related Cost Method Allocation		1,545,960	1,455,730

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET

Revised 5/18/01

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1106.4760) MACHINERY & EQUIPMENT</u>			
(01)PROJECT-Replacement:			
(1) Portable Dissolved Oxygen Meter	\$ 2,100.00		
(4) Electrical Valve Operators	16,000.00		
(2) 1/2 Ton Full Size Pick-up	32,000.00		
(2) SCBA Air Pack	4,800.00		
(1) Roll-off Truck	120,000.00		
(2) Compact Pick-up	30,000.00		
(2) Control Loop Calibrator	2,000.00		
(1) Digital Pressure calibrator	2,300.00		
(1) Influent Flow Meter	20,000.00		
(6) Dissolved Oxygen Meters	24,000.00		
(2) Return Activated Sludge Flow Meter	8,000.00		
(1) Rubber Tire Loader	150,000.00		
(1) Wheel Balancer	3,400.00		
(1) Bat-Wing Mower	12,000.00		
(1) High Pressure Washer	1,950.00		
(1) Airless Paint Sprayer	5,800.00		
(1) Sedan	16,000.00		
(1) pH/DO Meter	1,700.00		
(1) TKN Digester Unit	20,000.00		
(1) Autodilutor	2,900.00		
(6) Ultrasonic Depth Flow Meter	9,600.00		
(1) Track Hoe	<u>220,000.00</u>		
		\$ 704,550	
PRETREATMENT- Replacement:			
(1) 3/4 Ton Heavy Duty 4x4 Truck	22,000.00		
(1) Camper Shell	1,000.00		
(6) Portable Auto-Samplers	<u>15,000.00</u>		
		38,000	

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
(02) PROJECT- New:			
(3) Portable Gas Detectors	\$ 7,500.00		
(1) Fuel Injector Cleaner	4,300.00		
(1) Fiber Cable Test Set	2,500.00		
(1) Motor Winding/Coil Tester	1,500.00		
(1) Westinghouse Breaker Tester	2,500.00		
(1) Portable 6" Pump Unit	23,500.00		
(1) Transmission Flush System	4,500.00		
(2) Sludge Conveyor AutoLube System	6,000.00		
(1) Automated Mercury Analyzer	30,000.00		
(3) Bench-Top Separatory Funnel Shaker	4,100.00		
(1) 3/4 Ton Heavy Duty Truck	25,000.00		
(1) All Terrain Vehicle, 4X4	8,000.00		
(1) Plate Packer	14,000.00		
(1) Decant Pump	9,000.00		
(1) Portable Area Velocity Flow Meter	3,000.00		
	<hr/>	\$ 145,400	
PRETREATMENT- New			
	<hr/>	-	
TOTAL MACHINERY AND EQUIPMENT		887,950	\$ 500,750

TRINITY RIVER AUTHORITY OF TEXAS
 PROPOSED O&M BUDGET - FISCAL YEAR 2002
 Central Regional Wastewater System
 DETAILED EXPENDITURE WORKSHEET

<u>ACCOUNT NUMBER/DESCRIPTION</u>	<u>Proposed Detail</u>	<u>Proposed 2002 Budget</u>	<u>Current 2001 Budget</u>
<u>(1108.4800) BOND PRINCIPAL PAYMENTS</u>			
Due 8/01/2002:			
Series 1992	\$ 1,500,000.00		
Series 1993	9,685,000.00		
Series 1995	1,765,000.00		
Series 1998A	2,150,000.00		
Series 1998B	480,000.00		
Series 2001	-		

Total Bond Principal Payments		\$ 15,580,000	\$ 18,995,000
<u>(1108.4810) INTEREST ON LONG TERM-DEBT</u>			
Due 2/01/2002:			
Series 1992	46,875.00		
Series 1993	4,350,404.38		
Series 1995	307,076.25		
Series 1998A	868,503.75		
Series 1998B	1,418,003.75		
Series 2001	-		
Due 8/01/2002:			
Series 1992	46,875.00		
Series 1993	4,350,404.38		
Series 1995	307,076.25		
Series 1998A	868,503.75		
Series 1998B	1,418,003.75		
Series 2001	-		
Adjustment for Accrual	692,473.74		

Total Bond Interest Payments		14,674,200	14,594,070
<u>(1108.4830) PAYING AGENT FEES</u>			
		26,000	26,000



HANDOUT AGENDA ITEM V.A.

CENTRAL REGIONAL WASTEWATER SYSTEM MONTHLY EFFLUENT REPORT DECEMBER 2000- NOVEMBER 2001

8/8/2001
1:43 PM

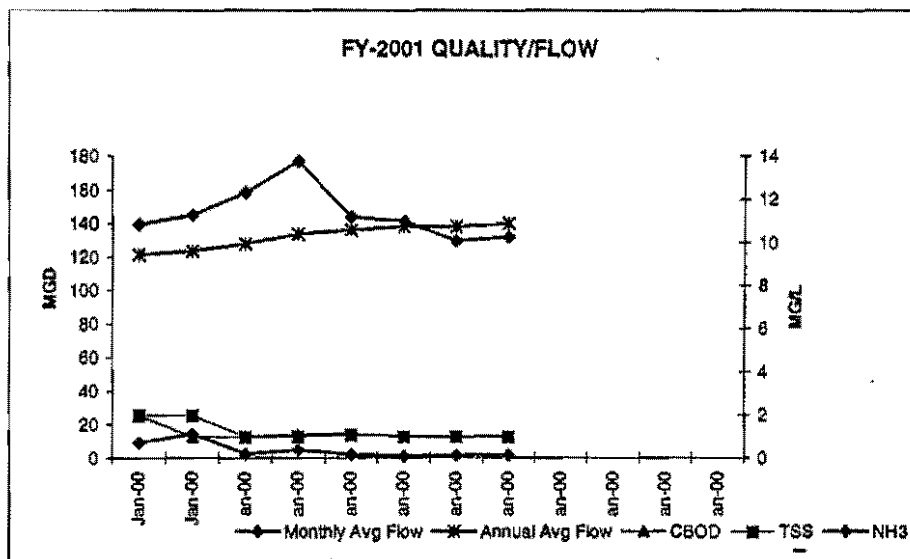
PERMIT NO:WQ0010303-

	FLOW DLY.AVG. MGD	FLOW DLY.MAX. MGD	FLOW ANN.AVG MGD	FLOW 2HR PK GPM	CBOD DLY.AVG. MG/L	CBOD DLY.MAX. MG/L	CBOD DLY.AVG. LBS/DAY	TSS DLY.AVG. MG/L	TSS DLY.MAX. MG/L	TSS DLY.AVG. LBS/DAY	NH3 DLY.AVG. MG/L	NH3 DLY.MAX. MG/L	NH3 DLY.AVG. LBS/DAY	CL2 RES.MIN. MG/L	DE-CHLOR MAX. MG/L	DO MIN. MG/L	PH MIN. UNITS	PH MAX. UNITS
PERMIT LIMIT	REPORT	REPORT	162	281250	7.00	17.00	9456	15.00	40.00	20266	4.00/2.00	7.00	5404/2702	1.00	<0.10	6.00	6.00	9.00
DEC	139.410	222.720	121.410	171443	2	4	2113.7	2	6	2895.8	0.710	3.692	902.7	1.00	0.07	7.1	6.8	7.2
JAN	145.030	196.000	123.801	150197	1	3	1784.8	2	4	2006.1	1.147	4.964	1339.9	1.10	0.00	8.2	6.8	7.7
FEB	158.490	258.820	127.990	199037	1	2	1416.4	1	2	1436.8	0.190	0.438	240.4	1.02	0.00	8.3	6.9	7.4
MAR	177.210	257.580	133.623	183450	1.1	3.0	1728.5	1.0	1.4	1494.4	0.385	2.200	603.5	1.03	0.03	8.5	6.9	7.3
APR	143.840	159.220	136.172	123780	1.1	5.0	1368.0	1.1	2.0	1278.6	0.159	0.621	194.1	1.05	0.00	8.4	6.9	7.3
MAY	141.244	176.670	138.137	132010	1.0	1.0	1178.0	1.0	1.0	1178.0	0.080	0.182	95.1	1.05	0.00	7.8	6.8	7.3
JUN	129.690	148.790	138.108	112617	1.0	1.0	1081.6	1.0	2.0	1116.8	0.139	0.708	151.6	1.02	0.00	7.6	6.9	7.3
JUL	132.070	186.120	139.938	145182	1.0	1.0	1101.4	1.0	2.0	928.9	0.151	0.688	115.4	1.01	0.00	6.7	6.7	7.2
AUG																		
SEP																		
OCT																		
NOV																		
MIN	129.690	148.790	121.410	112617	1	1	1081.6	1	1	928.90	0.080	0.182	95.1	1.00	0.00	6.7	6.7	7.2
MAX	177.210	258.820	139.938	199037	2	5	2113.7	2	6	2895.80	1.147	4.964	1339.9	1.10	0.07	8.5	6.9	7.7
AVG	145.848	200.615	132.397	152210	1	3	1471.6	1	3	1541.93	0.368	1.687	455.3	1.04	0.01	7.8	6.9	7.3

* 162 MGD Permit Effective 4/1/01

90% FLOW = 145.8

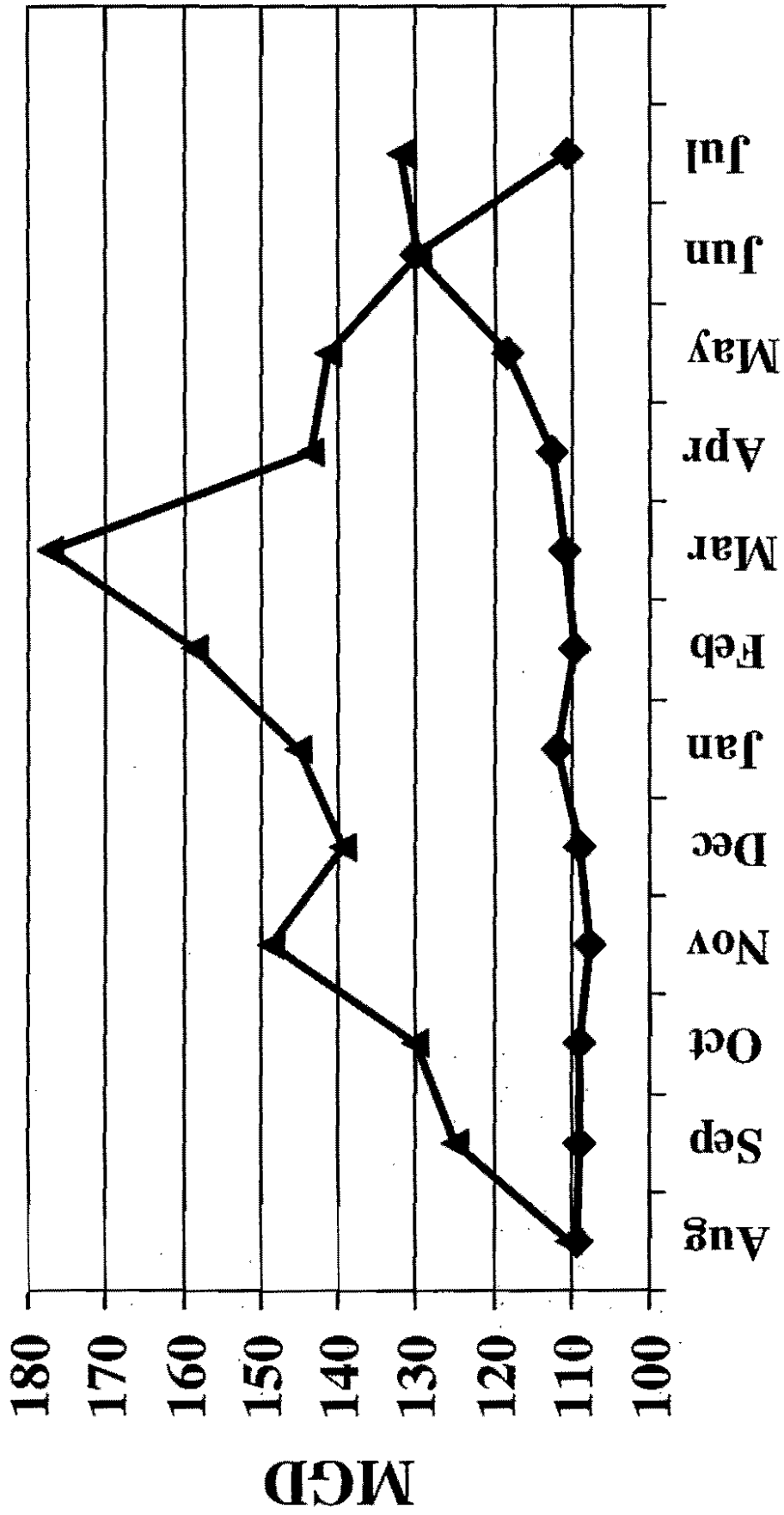
75% FLOW = 121.5



PERMIT LIMITS 12/1/00 TO 3/31/01:

ANNUAL AVG FLOW	135 MGD
2HR PK FLOW	232639 gpm
CBOD DAILY AVG	7881 lbs/Day
TSS DAILY AVG	18888 lbs/Day
NH3 DAILY AVG	5 mg/l
NH3 DAILY MAX	10 mg/l
NH3 DAILY AVG	6833 lbs/Day
DO MINIMUM	4.0 mg/l

EFFLUENT FLOW

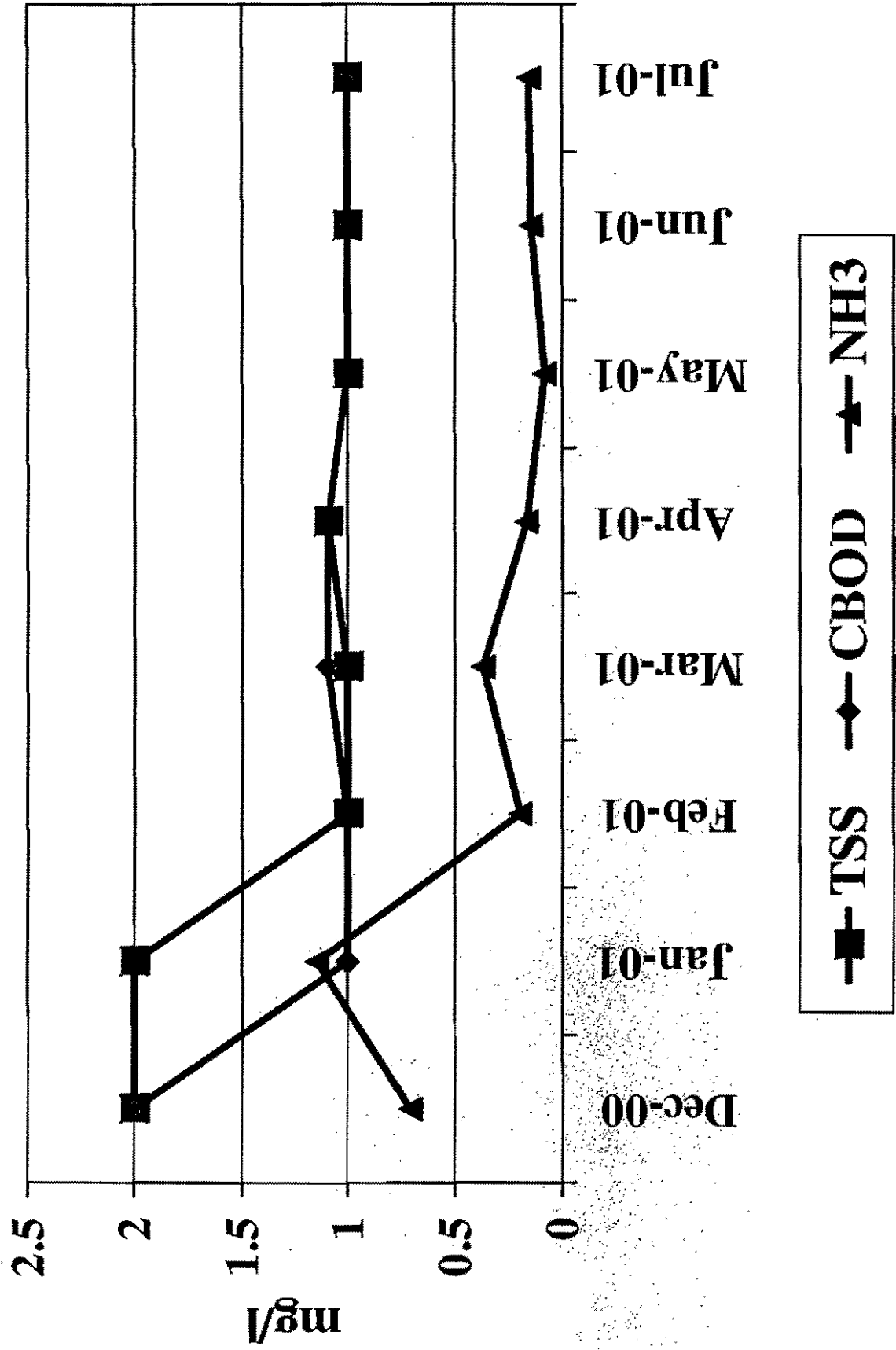


◆ Aug99-July00 ▲ Aug 00-July01

Monthly Average

EFFLUENT PROCESS PARAMETERS

December 2000 – July 2001



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**CENTRAL REGIONAL WASTEWATER SYSTEM
DESIGN AND CONSTRUCTION PROJECTS STATUS REPORT**

ACTIVE PIPELINE DESIGN PROJECTS

BEAR CREEK INTERCEPTOR SYSTEM

Name: Little Bear Creek CO-1/GV-4
Location: City of Hurst
East of Precinct Road, north of SP RR/West of Hwy 121 & north of Glade
Type: Rehabilitation of 1500 ft. of 12" diameter line/200 ft. line repair
Status: Project added to BC Rehab. in 1998
Final Design completed in June 2001
Easement and permit acquisition completed in July 2001
Anticipated construction award in August 2001

Name: Bear Creek Rehab., Section II
Location: Cities of Irving and Ft. Worth
South of DFW International Airport
Type: Rehabilitation of 9000 ft. of 39" diameter line
Status: Preliminary Design Study initiated in February 1996
Engineering Evaluation completed in January 1997
Design initiated May 1997
Final Design completed in June 2001
Easement and permit acquisition in July 2001
Anticipated construction award in August 2001

Name: Bear Creek Interceptor, BC-4
Location: City of Colleyville
Little Bear Creek to north city limit of Bedford
Type/Size: 2700 ft. of 8" to 15" diameter parallel relief
Status: Preliminary Design Contract awarded in June 2001
Preliminary Design Report Contract to be completed by early 2002

ELM FORK INTERCEPTOR SYSTEM

Name: Elm Fork Relief Interceptor, EF-G
Location: Cities of Coppell and Carrollton
Adjacent to Belt Line Road, from Luna Road to Fairway
Type/Size: 48" parallel relief of 6900 ft. of 33" diameter line
Status: Design initiated November 1994
Design Revisions begun May 1997
Final Design revisions completed June 2000
Easement/permit acquisition 99% complete
Condemnation proceedings in progress
Anticipated construction award by December 2001

Name: Elm Fork Relief Interceptor, EF-1
Location: City of Irving
North of CRWS Treatment Plant, from West Fork of Trinity River to SH 183
Type: 102" parallel relief of 25,300 ft. of 72" & 96" diameter lines
Status: Design begun in 1996
Design 80% complete
Easement acquisition begun December 2000
Anticipated construction award in late 2003

Name: Elm Fork Relief Interceptor, EF-2
Location: Cities of Irving and Dallas
North of SH 183 to Spur 348
Type: 96" parallel relief of 20,600 ft. of 96" diameter line
Status: Design initiated in 1995
Revisions to Final Design made in December 1997
Design 85% complete
Easement acquisition to begin by June 2001
Anticipated construction award in 2003

Name: Elm Fork Interceptor, EF-B/MS 11.5E/MS 12.0E
Location: Cities of Farmers Branch, Irving, and Dallas
South of I-635 and east of Luna Road
Type/Size: Rehabilitation of 4000 ft. of 33" diameter line and nearby meter stations
Status: Engineering Report completed August 1996
MS 12.0E design 99% completed in 1998
MS 11.0E design 99% completed in 1998
Final Design revised in June 1998 and June 1999
EF-B Final Design 70% complete
Evaluation of developer impacts completed in 1999
Design completion postponed due to low priority

Name: Elm Fork Relief Interceptor, EF-6
Location: Cities of Farmers Branch and Dallas
North of Spur 348 to I-635
Type: 72" parallel relief of 12,900 ft. 72" diameter line
Status: Design initiated in August 1998
Design 60% complete
Easement acquisition to begin by April 2001
Anticipated construction award by October 2003

MOUNTAIN CREEK INTERCEPTOR SYSTEM

Name: Mountain Creek Interceptor, MC-4A
Location: Cities of Grand Prairie and Arlington
Bowman Branch, South Fork Fish Creek to Loyd Park
Type: Construct new lift station, 10,000 ft of twin 24" diameter force main to replace existing 18" force main, and build 7,500 ft of 54" diameter pipeline to replace existing 24" diameter gravity pipeline

Name: Mountain Creek Interceptor, MC-4A (cont.)
Status: Environmental Assessment completed in April 1999
Design Contract awarded in August 1999
Evaluate possible reroute options in South Grand Prairie due to land development
Modify design for two 24" diameter force main and 54" gravity pipeline in July 2001
Easement acquisition begun in October 2000
USACE environmental data and reports to be completed by September 2001
Easement acquisition to be completed by November 2001
Anticipated construction award by December 2001

Name: Mountain Creek Interceptor, MC-4B
Location: Cities of Grand Prairie, Arlington, and Mansfield
Loyd Park to Holland Road
Type: 16,000 ft of 48" relief pipeline replacement of 24" gravity line
Status: Environmental Assessment completed in April 1999
Design Contract awarded in August 1999
Final design to begin in September 2000
Easement acquisition to begin March 2001
USACE environmental data and reports to be completed by September 2001
Easement acquisition to be completed by August 2001
Anticipated construction award by December 2001

Name: Kirby Creek Outfall Interceptor
Location: Cities of Grand Prairie
From Fish Creek to Great Southwest Parkway
Type: Preliminary Engineering Study and Environmental Assessment of 20,500 ft. of 12" to 24" line
Status: Design Contract awarded in August 1998
Preliminary Engineering Study completed August 1999
Environmental Assessment to be completed by March 2001
Design to be initiated by October 2001
Easement acquisition to begin by April 2002
Anticipated construction award in August 2002

WEST FORK INTERCEPTOR SYSTEM

Name: West Fork Relief Interceptor, WF-G Phase II and I-A-1 Erosion
Location: City of Grand Prairie
From Bear Creek System junction approximately 3,900 ft. upstream toward Belt Line Road
Type: 84" parallel relief of 3,900 ft. of 45" & 66" lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design 100% complete in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Construction contract to be awarded by December 2001

Name: West Fork Interceptor, WF-11A
Location: City of Grand Prairie
From Johnson Creek to Roy Orr Blvd.
Type: Preliminary Engineering Study and Environmental Assessment of 72" diameter parallel relief 6,900 ft. of 60" diameter line
Status: Design awarded in August 1998
Draft Environmental Assessment completed March 2000
Design 20% complete
Easement acquisition to begin in October 2001
Anticipated construction award in 2002

Name: West Fork Relief Interceptor, WF-11B
Location: Cities of Arlington and Grand Prairie
From Roy Orr Boulevard to west of West Fork of Trinity River
Type: 84" diameter parallel relief of 16,000 ft. of 66" diameter line
Status: Design contract awarded in June 1998
Preliminary engineering and environmental assessment completed March 2000
Engineering evaluations & negotiation of pipeline relocation, November 1999 to December 2000
Revised environmental assessment to be completed April 2001
Revised pipeline alignment in summer 2001
Design 50% complete
Easement acquisition to begin in late 2001
Anticipated construction award in March 2002

Name: West Fork Interceptor, WF-3
Location: City of Grand Prairie
Johnson Creek from junction with West Fork to Hwy. 360
Type/Size: 24" parallel relief of 11,050 ft. of 30" line
Status: Preliminary Design Contract awarded in June 1998
Environmental Assessment completed by December 2001
Final Design contract to be awarded by mid 2002

Name: West Fork Interceptor, WF-1
Location: City of Grand Prairie
From the Plant to Bear Creek System junction
Type/Size: 84" parallel relief of 17,800 ft. of 84" line
Status: Design Contract awarded in June 1998
Preliminary Engineering Study completed 2001
Environmental Assessment completed
Evaluation of TXDOT conflicts and pipeline reroutes completed by February 2001
Final Design in progress
Easement acquisition to begin by December 2001
Anticipated construction award by February 2002

Name: I and I Management Plan – Phase III
Type: Planning
Status: Contract awarded in August 1999
Updating POE Data from customer cities in progress
Collect temporary flow meter data completed in late 2000
Complete analysis of flow meter data by early 2001
Select ArcView GIS software in March 2001
Design GIS Structure is 80% completed
Design GIS, Hydraulic Model, & Maximo interface is 70% complete
Work is approximately 80% complete

ACTIVE PLANT DESIGN PROJECTS:

Name: Bar Screening Improvements, Phase I and II
Location: PS 6/6A
Type: Plant
Status: Design of Phase I is 75% complete
Design of Phase II is less than 10% complete
Anticipated construction award by December 2001

Name: Stage V/VI Odor Control Improvements
Location: Plant
Type: Plant Improvement
Status: Engineering evaluation contract begun June 2001
Work is less than 5% complete

ACTIVE CONSTRUCTION PROJECTS

Name: Flow Monitoring Telemetry System
Location: System Wide
Type/Size: Conversion of off-site meter stations to transmit flow data to the plant by flow monitoring telemetry
Status: Construction substantially complete in January 1998
There are two meter stations remaining to be converted
Final completion in August 2001

Name: Mountain Creek Relief Interceptor, MC-1
Location: City of Grand Prairie
South of CRWS Treatment Plant, from West Fork Interceptor (I-30) to Jefferson Highway
Type/Size: 84" Parallel relief of 7,000 ft of 54" line
Status: Construction contract awarded October 1997
Construction substantially complete in June 1999
Negotiation of Construction Claim with Contractor and Engineer during 2000
Final completion to be July 2001

Name: 2000 Odor Control Improvements
Location: Behind Administration Building/near Headworks
Type/Size: In-ground biofilters and weir covers
Status: Construction 92% complete
Construction to be substantially complete by August 2001
Final construction complete by September 2001

Name: Solids Dewatering
Location: Solids Dewatering Building
Type/Size: New belt presses and solids loading area
Status: Construction 98% complete
Construction to be substantially complete by Aug 2001

Name: Sludge Collector System
Location: Primary Clarifier No. 3
Type/Size: Rebuild chain and flight conveyor system
Status: Construction less than 5% complete
Construction to be substantially complete by Oct 2001

Name: West Fork Relief Interceptor, WF-C, N, B, P, & M
Location: City of Arlington
From West of Hwy. 360 to west of Collins Street
Type: 72" parallel relief of existing 54" & 60" lines
Status: Design initiated in 1996
Design completed in December 1998
EA completed by December 1998
Construction contract awarded in December 1998
Construction 97% complete
Construction to be completed by August 2001

Name: West Fork Relief Interceptor, WF-G, Phase I
Location: City of Grand Prairie
From 3,900 feet west of Bear Creek System junction to Belt Line Road
Type: 84" parallel relief of 2,200 ft. of 45" & 66" lines
Status: Design initiated in 1996
Revisions to design made in 1998
Archeological Study initiated in March 1999
Design 100% complete in April 1999
Additional Design revisions begun in April 2000
Easement acquisition begun in 1999
Construction split into two phases in October 2000
Construction contract awarded in April 2001
Construction to be completed by March 2002

List of Construction Project Improvements Completed since January 2001

1. Haul and Dispose of BioSolids, completed May 2001

Project Summary
 (Planning, Engineering, and Construction)
 for
 Report Period 8/99 to 08/01

	Number of Projects			
	<u>8/99</u>	<u>8/00</u>	<u>01/01</u>	<u>08/01</u>
<u>Design Projects</u>				
Pipelines	15	13	19	16
Plant	3	3	3	2
<u>Other</u>	<u>4</u>	<u>2</u>	<u> </u>	<u> </u>
Total	22	18	22	18

Miles of Pipeline 33 36

	Dollars Under Contract			
	<u>8/99</u>	<u>8/00</u>	<u>01/01</u>	<u>8/01</u>
<u>Design Projects</u>				
Pipelines				
Plant				
<u>Other</u>				
Total	<u>\$9.2M</u>	<u>\$7.4M</u>	<u>10.7</u>	

	Dollars Spent To date			
	<u>8/99</u>	<u>8/00</u>	<u>01/01</u>	<u>8/01</u>
<u>Design Projects</u>				
Pipelines				
Plant				
<u>Other</u>				
Total		\$5.3M	\$3.5M	6.7

Project Summary
 (Planning, Engineering, and Construction)
 for
 Report Period 8/99 to 08/01

	Number of Projects			
	<u>8/99</u>	<u>8/00</u>	<u>01/01</u>	<u>8/01</u>
<u>Construction Projects</u>				
Completed	8	7	4	
In Progress	<u>7</u>	<u>5</u>	<u>5</u>	
Total	15	12	9	

Miles of Pipeline 4.6

	Dollars Under Contract			
	<u>8/99</u>	<u>8/00</u>	<u>01/01</u>	<u>8/01</u>
<u>Construction Projects</u>				
Completed				
In Progress				
Total	\$17.M	\$14.5M	\$14.1M	

	Dollars Spent to Date			
	<u>8/99</u>	<u>8/00</u>	<u>01/01</u>	<u>8/01</u>
<u>Construction Projects</u>				
Completed				
In Progress				
Total	\$13.1M	\$9.8M	\$12.5M	

HANDOUT AGENDA ITEM V-B

CENTRAL REGIONAL WASTEWATER SYSTEM FY 2000 SCHEDULE OF ACTUAL ANNUAL REQUIREMENT ADJUSTED FOR INTERCEPTOR I/I (METHOD 2)

CONTRACTING PARTY	FY 2000 CONTRIBUTION BASED ON ACTUAL FLOW		DISTRIBUTION OF FY 2000 ACTUAL ANNUAL REQUIREMENT BASED ON ACTUAL FLOWS	TRA INTERCEPTOR I/I (MG)	ADJUSTED FY 2000 CONTRIBUTION		ADJUSTED DISTRIBUTION OF FY 2000 ACTUAL ANNUAL REQUIREMENT	FY 2000 ACTUAL ANNUAL REQUIREMENT ADJUSTMENT
	TOTAL FLOW (MG)	PERCENT			TOTAL FLOW (MG)	PERCENT		
ADDISON	834.245	1.846%	\$883,980		834.245	1.853%	\$887,428	\$3,446
ARLINGTON	10,479.077	23.158%	\$11,103,866	0.016	10,479.062	23.278%	\$11,147,075	\$43,210
BEDFORD	1,705.786	3.775%	\$1,807,706		1,705.786	3.789%	\$1,814,626	\$6,819
CARROLLTON	4,147.744	9.179%	\$4,396,480	16.551	4,131.193	9.177%	\$4,394,546	(\$)
CEDAR HILL	75.260	0.167%	\$79,970		75.260	0.167%	\$80,058	\$88
COLLEYVILLE	833.736	1.845%	\$883,501	5.566	828.170	1.840%	\$880,964	(\$2,538)
COPPELL	1,289.919	2.854%	\$1,366,674		1,289.919	2.865%	\$1,372,148	\$5,474
DALLAS	2,668.947	5.906%	\$2,828,162	0.01	2,668.937	5.929%	\$2,839,075	\$10,913
D/FW AIRPORT	780.815	1.728%	\$827,475		780.815	1.735%	\$830,590	\$3,115
DUNCANVILLE	71.956	0.160%	\$76,618		71.956	0.160%	\$76,543	(\$75)
EULESS	1,357.435	3.004%	\$1,438,503	26.278	1,331.157	2.967%	\$1,418,015	(\$22,488)
FARMERS BRANCH	2,036.984	4.506%	\$2,157,765	0.01	2,036.974	4.523%	\$2,166,762	\$8,007
FORT WORTH	439.006	0.971%	\$464,976	5.923	433.083	0.982%	\$460,691	(\$4,285)
GRAND PRAIRIE	5,397.795	11.945%	\$5,720,014	42.088	5,355.707	11.897%	\$5,697,120	(\$22,5)
GRAPEVINE	663.410	1.468%	\$702,970	34.18	629.230	1.398%	\$669,342	(\$33,628)
HURST	64.981	0.144%	\$68,956		64.981	0.144%	\$69,123	\$167
IRVING	9,992.860	22.112%	\$10,588,610	32.975	9,959.885	22.125%	\$10,594,803	\$6,193
KELLER	685.006	1.516%	\$725,956	1.223	683.782	1.519%	\$727,371	\$1,416
MANSFIELD	982.289	2.174%	\$1,041,047		982.289	2.182%	\$1,044,907	\$3,860
N RICHLAND HILLS	199.372	0.441%	\$211,178	6.407	192.965	0.429%	\$205,266	(\$5,912)
SOUTHLAKE	483.808	1.071%	\$512,862	1.539	482.169	1.071%	\$512,905	\$44
	45,189,426	100.000%	\$47,888,259	172.865	45,016,670	100.000%	\$47,888,259	\$0

CENTRAL REGIONAL WASTEWATER SYSTEM
FY 2000 INTERCEPTOR I/I

Customer City for Receiving Meter	Receiving Meter	Upstream Meters	ADF (mgd)	ADDF (mgd)	I/I (mgd)	TRA Interceptor Idm	City Idm	Total Idm	I/I per Idm	TRA Interceptor I/I (mgd)	TRA Interceptor I/I (mg)	Adjusted TRA Interceptor Idm	Adjusted TRA Interceptor I/I (mgd)	Adjusted TRA Interceptor I/I (mg)
Arlington	9.0W	9.5W, 9.7W, 9.8W	2.157	2.119	0.038	0.75	442.80	443.55	0.0000856	0.000	0.023	0.47	0.000	0.015
Carrollton	15.0E/16.5E	17.0E, 18.0E	11.333	10.636	0.697	537.79	5449.94	5987.73	0.0001164	0.063	22.841	389.70	0.045	16.551
Colleyville	11.8B	12.7B, 13.5B, 12.1B	0.676	0.617	0.060	136.58	230.61	367.19	0.0001628	0.022	8.116	93.66	0.015	5.566
Dallas	3.0M	4.5M, 5.1M, 5.3M	3.540	3.540	0.000	608.02	1843.70	2451.72	0.0000000	0.000	0.010	591.69	0.000	0.010
Eules	11.8W	11.9W, 10.5W	0.910	0.774	0.136	31.32	300.22	331.54	0.0004100	0.013	4.687	24.27	0.010	3.632
Eules	12.0B	12.6B, 13.0B, 12.9B, 13.1B	0.444	0.354	0.091	182.52	251.98	434.50	0.0002089	0.038	13.919	150.87	0.032	11.506
Eules	13.0W	15.0W, 15.5W, 16.0W	0.595	0.468	0.127	83.80	219.46	303.36	0.0004176	0.035	12.790	53.36	0.022	8.134
Eules	16.5W	17.0W	0.043	0.034	0.009	8.08	111.98	120.06	0.0000725	0.001	0.214	6.39	0.000	0.169
Eules	18.0W	18.1W, 18.6W, 19.0W, 19.1W	0.618	0.569	0.049	53.90	211.38	265.28	0.0001864	0.010	3.667	41.70	0.008	2.837
Farmers Branch	13.0E	13.1E, 13.2E, 13.3E	3.986	3.933	0.054	1.38	1344.88	1346.26	0.0000404	0.000	0.020	0.66	0.000	0.010
Fort Worth	10.0W	11.6W, 11.8W	0.165	0.131	0.034	62.43	68.72	131.15	0.0002627	0.016	5.985	61.78	0.016	5.923
Grand Prairie	5.0J	7.0J, 8.0J	4.782	4.637	0.145	505.78	1295.91	1601.69	0.0000805	0.041	14.862	200.62	0.016	5.895
Grand Prairie	5.0W	6.0W	0.550	0.522	0.027	71.15	196.08	267.23	0.0001019	0.007	2.646	70.52	0.007	2.622
Grand Prairie	5.1M	7.0M, 9.0M, 9.6M, 10.0M	4.202	4.134	0.068	568.71	1390.54	1959.25	0.0000349	0.020	7.245	490.79	0.017	6.253
Grand Prairie	7.0W	8.0W	1.454	1.201	0.253	182.48	219.27	401.75	0.0008300	0.115	41.961	118.80	0.075	27.318
Grapevine	11.8B	11.9B, 11.7B	1.508	1.005	0.503	182.62	721.61	904.23	0.0005567	0.102	37.110	168.20	0.094	34.180
Irving	4.0E	10.0E, 11.0E	8.461	6.837	1.624	187.28	1966.83	2154.11	0.0007539	0.141	51.536	119.83	0.090	32.975
Keller	12.8B	13.3B, 13.6B	1.310	1.188	0.142	161.15	880.97	1042.12	0.0001359	0.022	7.994	22.21	0.003	1.102
Keller	15.0B	16.0B	0.543	0.470	0.072	3.25	334.15	337.40	0.0002145	0.001	0.254	1.54	0.000	0.121
North Richland Hills	14.0B	14.7B, 15.0B	0.505	0.382	0.123	69.76	324.92	394.68	0.0003123	0.022	7.952	56.21	0.018	6.407
Southlake	13.5B	12.8B	0.634	0.591	0.043	46.43	397.69	444.12	0.0000968	0.004	1.640	46.40	0.004	1.639
TOTAL			48.419	44.122	4.286	3695.28	18203.64	21888.92	0.0048808	0.673	245.473	2709.67	0.474	172.865

CENTRAL REGIONAL WASTEWATER SYSTEM
CAPACITY FOR UPSTREAM CITY (METHOD 2)

Delta Meter		Upstream Meter(s)						Upstream Interceptor			Downstream Interceptor		
City	Meter ID	City	Meter ID	Node	Lateral	Interceptor	Sta. No.	Diameter	Slope	Capacity (cfs)	Diameter	Slope	Capacity (cfs)
Irving	4.0E	Dallas	11.0E	MS11.0E	EF002	EF2	29069.00	City			30	0.00010	4.113
		Dallas	10.0E	MS10.0E	EF002.2	EF2	26900.00	City			12	0.01700	4.658
Carrollton	15.0/16.5E	Coppell	17.0E	900E	EF009	CQP	12228.00	33	0.00050	11.858	33	0.00050	11.858
		Dallas	18.0E	MS18.0E	EF014	EFN	16922.60	City			66	0.00042	69.006
Farmers Branch	13.0E	Addison	13.1E	1930E	EF012	EF2R	537.43	30	0.00270	21.310	30	0.00220	19.240
		Addison	13.2E	1930E	EF012	EF2R	537.43	18	0.01050	10.760	15	0.00500	4.570
		Addison	13.3E	1930E	EF012	EF2R	537.43	City			18	0.00720	8.910
Grapevine	11.8B	Colleyville	11.9B	3460B	BC019	BBCXII	7310.00	48	0.00070	37.998	48	0.00080	40.738
		DFW	11.7B	2900B	BC017	BBC	9384.00	12	0.00400	2.250	12	0.00400	2.250
Colleyville	11.9B	Southlake	13.5B	3810B	BC020	BBCXIII	19240.00	36	0.00220	31.369	36	0.00240	32.763
		Southlake	12.1B	3590B	BC019	BBCXII	450.00	18	0.00120	3.649	18	0.00120	3.649
		Southlake	12.7B	4090B	BC020.4	BBCXIII	325.00	City			15	0.00460	4.393
Southlake	13.5B	Keller	12.8B	4060B	BC018	BBCXI	25985.00	36	0.00172	27.712	36	0.00172	27.712
Keller	12.8B	North Richland Hills	13.3B	6280B	BC019.3	BBCXII	3128.06	12	0.00200	1.598	12	0.00200	1.598
		Southlake	13.6B	4920B	BC018.1	BBCXI	90.00	18	0.01700	13.700	21	0.00100	5.010
Euless	12.0B	Grapevine	12.6B	6090B	BC013	GV7R	5325.00	12	0.00202	1.606	12	0.00880	3.351
		Colleyville	12.9B	2395B	BC010	CO17	5436.48	End of Line			12	0.00241	1.754
		Colleyville	13.0B	1580B	BC007	LBCI	9600.00	42	0.00228	48.170	42	0.00240	49.421
		Bedford	13.1B	2460B	BC012	B13	2266.00	City			12	0.00200	1.598
North Richland Hills	14.0B	Keller	14.7B	MS14.7B	BC008.1	LBCII	35540.00	City			12	0.00580	2.721
		Keller	15.0B	2210B	BC008	LBCII	38040.00	21	0.00200	7.105	21	0.00339	9.250
Keller	15.0B	North Richland Hills	16.0B	MS16.0B	BC008.2	LBCII	38837.00	City			8	0.00400	0.766
Grand Prairie	5.0W	Arlington	6.0W	1470W	WF003	WFXJB	13100.00	27	0.00770	27.249	27	0.00770	27.249
Grand Prairie	7.0W	Arlington	8.0W	1780W	WF004	WFXJC	15746.82	42	0.00148	38.810	42	0.00200	45.115
Arlington	9.0W	Grand Prairie	9.5W	MS9.5W	WF015.1	WFCEO	2441.32	City			6	0.00800	0.503
		Grand Prairie	9.7W	MS9.7W	WF015.2	WFCEO	2441.32	City			6	0.00480	0.390
		Grand Prairie	9.8W	MS9.8W	WF015.4	WFCEO	2441.32	City			8	0.00800	1.084
		Euless	11.6W	MS11.6W	WF011.1	BBP	6768.00	City			10	0.00340	1.281
Fort Worth	10.0W	Euless	11.8W	2460W	WF011	BBP	12767.50	24	0.00408	14.489	24	0.00410	14.524
		Euless	11.8W	2470W	WF011	BBP	13121.76	City			12	0.08160	10.180
Euless	11.8W	Fort Worth	11.9W	2860W	WF013.1	BBRI	20.00	End of Line			12	0.01450	4.302
		Bedford	15.0W	3720W	WF017	TJO	2156.00	City			12	0.00339	2.080
Euless	13.0W	Bedford	15.5W	MS15.5W	WF018.1	HCT	1142.32	City			12	0.00300	1.957
		Bedford	16.0W	3760W	WF018	HCT	2821.65	City			18	0.00340	6.142
		Euless	17.0W	3330W	WF016	BOT	8783.00	10	0.00850	2.025	10	0.00400	1.389
Euless	18.0W	Bedford	18.1W	3539W	WF014B	EOS	650.00	12	0.00317	2.011	12	0.32000	20.209
		Hurst	18.6W	MS18.6W	WF014A.3	EOSB	3525.65	City			10	0.02000	3.107
		Bedford	19.0W	3860W	WF019	SBT	7560.00	18	0.01980	14.821	18	0.00340	6.142
		Bedford	19.1W	3480W	WF014A	EOSB	2747.16	36	0.00440	44.362	27	0.00440	20.599
Grand Prairie	5.0J	Arlington	7.0J	1810J	JT008	CWRR	20372.81	City			30	0.00550	30.501
		Arlington	8.0J	MS8.0J	JT001	CWCS	11390.00	21	0.00100	5.024	21	0.00802	14.228
Dallas	3.0M	Duncanville	4.5M	MS4.5M	MC002.1	MC2	148.00	City			15	0.01350	7.526
		Grand Prairie	5.1M	380M	MC006	FCCP	18.00	60	0.00150	101.140	60	0.00150	101.140
		Grand Prairie	5.3M	2120M	MC004	EMCR	109.20	30	0.00100	13.006	27	0.00266	16.016
		Cedar Hill	CH	2290M	MC012	NEL	29700.00	FM			24	0.02401	35.148
Grand Prairie	5.1M	Arlington	7.0M	1080M	MC007	NFFC	16340.00	27	0.00260	15.834	27	0.00260	15.834
		Arlington	9.0M	8030M	MC005	SFFCR	953.50	30	0.00400	26.011	30	0.00400	26.011
		Arlington	9.6M	1950M	MC010	BCWBR	4558.00	36	0.00219	31.297	36	0.00220	31.369
		Mansfield	10.0M	1840M	MC009	WCT	17987.61	27	0.00075	8.504	27	0.00075	8.504

CENTRAL REGIONAL WASTEWATER SYSTEM INTERCEPTOR I/I PRORATION METHODOLOGY

Method 2

Method 2 utilizes the CRWS and city inch-diameter-mile (idm) calculations, and the metered flows from each delta meter to prorate interceptor I/I on a subsystem basis. The interceptor I/I is developed by applying the I/I per idm for the delta meter subsystem to an adjusted interceptor idm. The adjusted interceptor idm is based on the line size required to transport the existing flow capacity provided for the upstream city. The interceptor I/I flows are deducted from the Fiscal Year Contribution and the Annual Requirement is revised based on adjusted contribution percentages.

**CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION METHOD 2**

The following is a description of Method 2 for prorating CRWS interceptor infiltration/inflow (I/I) to the contracting party flows.

1. Determine the annual volume of I/I for each subsystem defined by a delta meter location. $ADF - ADDF = I/I$ (annually)

The use of delta meter subsystem values assumes that the annual average I/I per idm for the CRWS interceptors and the city collection system served by the interceptor is the same within the delta meter subsystem. The interceptors upstream of non-delta meters are considered to be lines required to serve the metered city, regardless of ownership. The evaluation of I/I annually will provide a trending to account for annual rainfall, I/I reduction in the CRWS and the city collection systems, and any other changes in the condition of the systems.

2. Determine the city inch-diameter-miles (idm) within the delta meter subsystem. The delta meter subsystem idm could be determined annually, or assumed to remain the same for a period of three to five years.
3. Determine the CRWS interceptor idm within the delta meter subsystem.
4. Determine the annual subsystem I/I per idm. (No. 1 divided by the sum of No. 2 and No. 3)
5. Determine the adjusted CRWS interceptor idm. The adjusted interceptor idm is based on the interceptor size required to transport the existing flow capacity provided for the upstream city using the slope of the existing CRWS interceptor segments from the upstream meter to the delta meter. The existing interceptor size in excess of the size required for the upstream city is considered to be required to serve the delta metered city, regardless of ownership.
6. Apply the annual subsystem I/I per idm to the adjusted CRWS interceptor idm. (No. 4 multiplied by No. 5)
7. Adjust the Fiscal Year Contribution Based on Actual Flow for each of the contracting parties.
8. Adjust the Distribution of Fiscal Year Actual Annual Requirement Based on Actual Flows for each of the contracting parties.

BLACK & VEATCH

MEMORANDUM

Trinity River Authority of Texas
I/I Proration
Negative Flow Adjustment

B&V Project 37417.110
B&V File B
October 10, 1997

To: Patricia Cleveland

From: Layne Parsons, P.E.

The following methodology is proposed for adjusting negative annual flows used in the interceptor I/I proration calculation.

ADF Adjustment

If a negative ADF value is calculated for a receiving (delta) meter, use the following steps to determine an adjusted ADF value:

1. Using the estimated subsystem population and the current ADF, determine the average gallons-per-capita-day (gpcd) for the meters upstream of the receiving (delta) meter.
2. Apply the calculated average gpcd flow value to the cumulative population for the receiving (delta) meter to determine an adjusted ADF for the receiving (delta) meter.
3. Using the adjusted cumulative ADF for the receiving (delta) meter, calculate the delta ADF.

I/I Adjustment

If a negative I/I value is calculated for a receiving (delta) meter, use the following steps to determine an adjusted I/I value:

1. Using the estimated developed acres and the current annual I/I, determine the average gallons-per-acre-day (gpad) for the meters upstream of the receiving (delta) meter.
2. Apply the calculated average gpad I/I flow value to the cumulative developed acres for the receiving (delta) meter to determine a revised annual I/I for the receiving (delta) meter.
3. Using the revised annual cumulative I/I for the receiving (delta) meter, calculate the delta I/I.

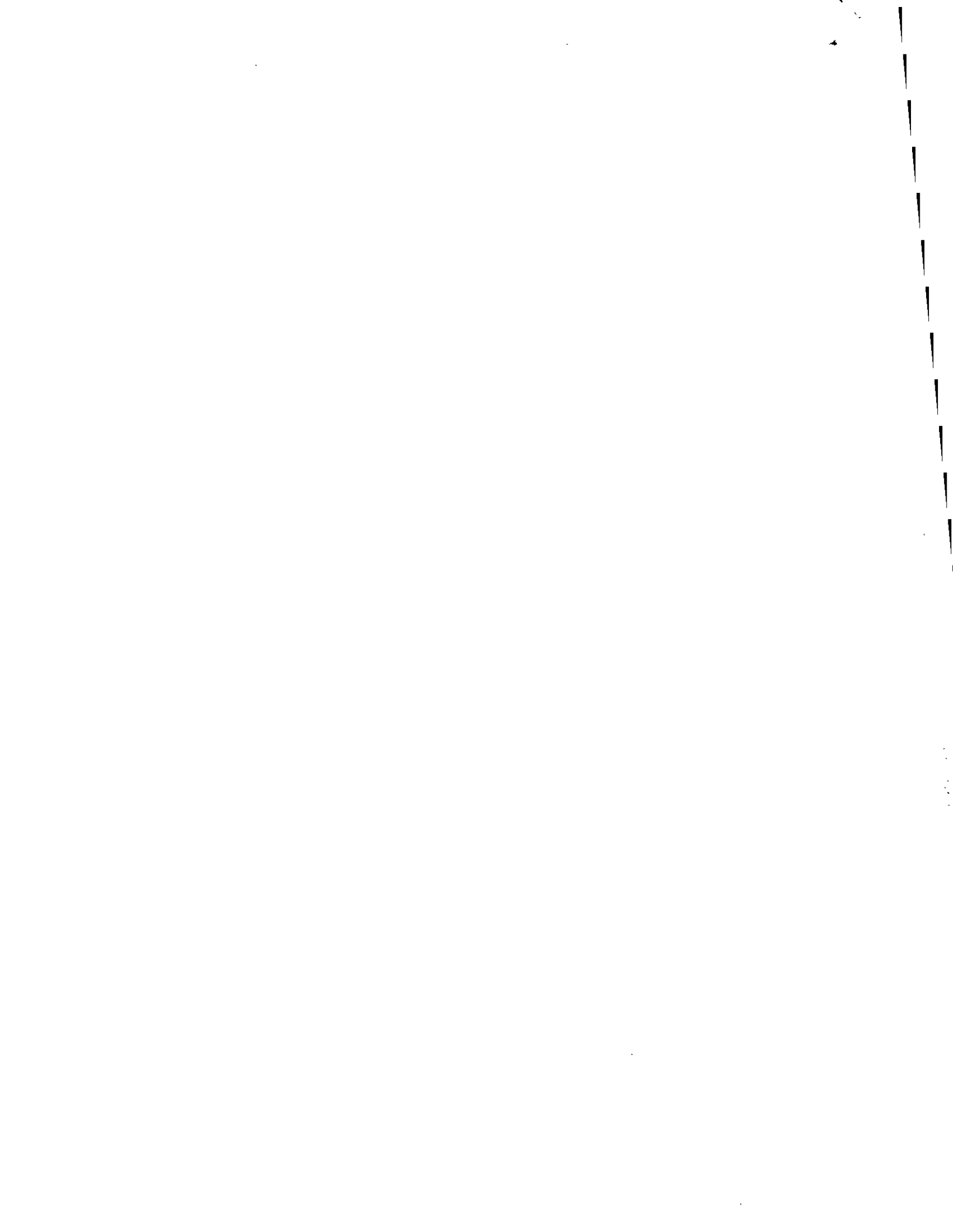
**CENTRAL REGIONAL WASTEWATER SYSTEM
INTERCEPTOR I/I PRORATION
FLOW ANALYSIS CRITERIA**

The average annual daily flow (ADF) is defined to be the total annual flow divided by the total number of days in the year.

The average daily dry weather flow is defined to be the lowest seven day average flow recorded during the year.

The following criteria are established for the analysis of the flows used to determine the ADF and ADDF for the interceptor I/I proration.

1. The beginning of the fiscal year for flow recordings may result in partial inclusion of the first seven day average meter recording. Partial seven day average meter recordings consisting of less than four (4) days will not be considered for use as the ADDF.
2. During the year, there may be a need to adjust the recorded flows. The reason for these adjustments may include, but not be limited to line blockage or year-to-date (YTD) adjustments. Adjusted flows will not be considered for use as ADDF.



HA DOUT AGENDA ITEM V-B
CRWS - 2001 MID YEAR REALLOCATION

CONTRACTING PARTY	2001 BUDGET	2001 BUDGET	2001 REVISED	2001 REVISED
	MGD	% SHARE	MGD	% SHARE
ADDISON	2.4200	1.691%	2.3951	1.652%
ARLINGTON	39.8600	27.848%	41.6897	28.757%
BEDFORD	5.3600	3.745%	4.7802	3.297%
CARROLLTON	12.2000	8.524%	12.2000	8.415%
CEDAR HILL	0.2100	0.147%	0.2627	0.181%
COLLEYVILLE	2.4450	1.708%	2.4269	1.674%
COPPELL	3.5750	2.498%	3.8054	2.625%
DALLAS	7.2000	5.030%	8.7976	6.068%
DFW AIRPORT	2.1000	1.467%	2.3138	1.596%
DUNCANVILLE	0.2000	0.140%	0.1826	0.126%
EULESS	4.0000	2.795%	3.8567	2.660%
FARMERS BRANCH	6.5000	4.541%	6.2116	4.284%
FORT WORTH	1.2000	0.838%	2.6803	1.849%
GRAND PRAIRIE	15.8900	11.102%	15.9235	10.983%
GRAPEVINE	2.7240	1.903%	1.7899	1.235%
HURST	0.1750	0.122%	0.1965	0.136%
IRVING	29.9000	20.890%	28.3876	19.580%
KELLER	1.8500	1.292%	1.9969	1.377%
MANSFIELD	3.0900	2.159%	3.0175	2.081%
N RICHLAND HILLS	0.5400	0.377%	0.6386	0.440%
SOUTHLAKE	1.6940	1.183%	1.4267	0.984%
TOTAL	143.1330	100.000%	144.9798	100.000%



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EXHIBIT I
CENTRAL REGIONAL WASTEWATER SYSTEM
CURRENT AND HISTORICAL SYSTEM FINANCIAL AND FLOW DATA

FISCAL YEAR	BUDGETED EXPENDITURES	ACTUAL EXPENDITURES	BUDGETED REVENUE	ACTUAL REVENUE	PROJECTED FLOW	ACTUAL FLOW	PROJECTED NET COST/1,000 GAL.	ACTUAL COST/1,000 GAL.
1997	\$48,358,525	\$47,401,825	\$45,233,590	\$42,891,464	116.00 MGD	118.01 MGD	\$1.0683	\$0.9958
1998	\$47,014,070	\$46,752,148	\$43,601,935	\$43,673,073	118.28 MGD	118.04 MGD	\$1.0099	\$1.0136
1999	\$50,390,530	\$50,691,945	\$45,859,710	\$45,808,213	123.31 MGD	120.64 MGD	\$1.0189	\$1.0403
2000	\$51,066,490	\$51,361,749	\$47,812,790	\$48,442,041	127.41 MGD	123.47 MGD	\$1.0253	\$1.0720
2001	\$54,509,150	\$56,087,461	\$49,187,660	\$51,953,155	143.13 MGD	146.49 MGD	\$0.9415	\$0.9716
2002	\$54,352,130	\$53,339,201	\$50,421,660	\$50,188,032	145.52 MGD	144.22 MGD	\$0.9493	\$0.9533
2003	\$58,077,710	\$56,099,876	\$54,613,900	\$53,188,063	150.15 MGD	139.13 MGD	\$0.9965	\$1.0473
2004	\$57,839,230	*	\$55,193,770	*	151.21 MGD	*	\$0.9973	*
2005	\$58,421,590	*	\$55,735,040	*	151.25 MGD	*	\$1.0100	*

