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SOAH DOCKET NO. 473-14-5138
PUC DOCKET NO. 42857

PETITION OF NORTH AUSTIN § BEFORE THE STATE OFFICE
MUNICIPAL UTILITY DISTRICT NO. 1, §
NORTHTOWN MUNICIPAL UTILITY §
DISTRICT, TRAVIS COUNTY WATER §
CONTROL AND IMPROVEMENT §
DISTRICT NO. 10 AND WELLS §
BRANCH MUNICIPAL UTILITY § OF
DISTRICT ("PETITIONERS"), FROM §
THE RATEMAKING ACTIONS OF THE §
CITY OF AUSTIN ("CITY") AND §
REQUEST FOR INTERIM RATES IN §
WILLIAMSON AND TRAVIS §
COUNTIES § ADMINISTRATIVE HEARINGS

SOAH DOCKET NO. 473-14-5138
PUC DOCKET NO. 42867

PETITION OF NORTH AUSTIN § BEFORE THE STATE OFFICE
MUNICIPAL UTILITY DISTRICT NO. 1, §
NORTHTOWN MUNICIPAL UTILITY §
DISTRICT, AND WELLS BRANCH §
MUNICIPAL UTILITY DISTRICT § OF
FROM THE RATEMAKING ACTIONS §
OF THE CITY OF AUSTIN §
AND REQUEST FOR INTERIM RATES §
IN WILLIAMSON AND TRAVIS §
COUNTIES § ADMINISTRATIVE HEARINGS

**PETITIONERS' SECOND SUPPLEMENTAL RESPONSE TO
REQUEST FOR DISCLOSURE**

TO: CITY OF AUSTIN, BY AND THROUGH ITS ATTORNEY OF RECORD,
GWENDOLYN HILL WEBB, WEBB & WEBB, 712 SOUTHWEST TOWER, 211 E.
7TH STREET, AUSTIN, TEXAS 78701.

Respectfully submitted,

Randall B. Wilburn, Attorney at Law
State Bar No. 24033342
3000 South IH 35, Suite 150
Austin, Texas 78704
Telephone: (512) 535-1661
Fax: (512) 535-1678

John Carlton
State Bar No. 03817600
The Carlton Law Firm, P.L.L.C.
2705 Bee Cave Road, Suite 200
Austin, Texas 78746
Telephone: (512) 614-0901
Fax: (512) 900-2855

By: 

COUNSEL FOR PETITIONER

CERTIFICATE OF SERVICE

I certify that a true and correct copy of the foregoing document has been served via hand delivery, facsimile, electronic mail, overnight mail, U.S. mail and/or certified mail, return receipt requested on all parties whose names appear below on the 5th day of September, 2014.

CITY OF AUSTIN

Gwendolyn Webb
Stephen P. Webb
Webb & Webb
P.O. Box 1329
Austin, Texas 78767
Telephone: 512-472-9990
Fax: 512-472-3183
Email: g.hill.webb@webbwebblaw.com

Clark Cornwell, Assistant Attorney
City of Austin
P.O. Box 1088
Austin, Texas 78767-1088
Telephone: 512-974-6482
Fax: 512-974-6490
Email: clark.cornwell@austintexas.gov

PUBLIC UTILITY COMMISSION

Office of Public Utility Counsel
P.O. Box 12397
Austin, Texas 78711-2397
Fax: 512-936-7525

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
8th Floor, Suite 100
1701 N. Congress Ave.
Austin, Texas 78701


JOHN J. CARLTON

RESPONSES TO REQUESTS FOR DISCLOSURES UNDER RULE 194

- (a) the correct names of the parties to the lawsuit;

RESPONSE: The correct names of the parties to the lawsuit are set forth in the ALJ's Order No. 2.

- (b) the name, address, and telephone number of any potential parties;

RESPONSE: At this time, Petitioners are unaware of any other potential parties other than other wholesale water customers of the City of Austin.

- (c) the legal theories and, in general, the factual bases of the responding party's claims or defenses.

RESPONSE: The City of Austin ("City") has not and cannot meet its burden of proof regarding the justness or reasonableness of its wholesale water and sewer rates. The City's proposed rates do not accurately reflect the City's cost of rendering water and wastewater service to the ratepayers of the City of Austin or the Petitioners. The expenses listed in the City's rate model and prefiled testimony are not reasonable or necessary to provide water or wastewater service to the Petitioners, and many are not allowable under the Commission's rules or the Texas Water Code. The City's operation and maintenance expenses are not reasonable and necessary to provide water and wastewater service to the Petitioners. The City's depreciation expenses are not reasonable and necessary. The City's property and infrastructure included in the rate design are not used and useful to the City for service to the Petitioners, and, therefore, the rates based upon the cost of that property and infrastructure are neither reasonable nor necessary for the provision of service to the Petitioners. The cash funding of projects exceeds that which is necessary to maintain and support the City and to maintain and support the City's credit. Further, the cash funding of construction projects exceeds that which is necessary to enable the City to raise the money necessary for the proper discharge of its public duties. The City's financial policies regarding capital funding and debt service are unjust and unreasonable because they inappropriately result in the excessive recovery of revenue from the Petitioners. The proposed rates exceed the amount that is necessary to allow the City to construct facilities capable of providing adequate and continuous utility service to these Petitioners. The wholesale rate design is not just or reasonable because it inappropriately over-recovers costs from the wholesale customers. The wholesale water and wastewater rates result in revenues that exceed the amount that is just and reasonable for the City to charge the Petitioners for water and wastewater service.

- (e) the name, address, and telephone number of persons having knowledge of relevant facts, and a brief statement of each identified person's connection with the case;

RESPONSE:

At this time, Petitioners are unaware of any persons that have knowledge of relevant facts other than the personnel and representatives of the City of Austin Water Utility, the City Manager's Office of the City of Austin, the City Council and Mayor of Austin; the personnel of the other parties in this matter; the Board of Directors, personnel, and representatives of Petitioners; and the other wholesale ratepayers of the City of Austin.

- (f) for any testifying expert:
- (1) the expert's name, address, and telephone number;

RESPONSE: Jay Joyce, President

Expergy
325 N. Saint Paul St. Suite 2100
Dallas, Texas 75201
Telephone: 214 432 2500, Fax: 214 722 0363
www.expergy.com

George Murfee, P.E., President
Murfee Engineering
1101 S. Capital of Texas Highway, Suite D110
Austin, Texas 78746
Telephone: 512-327-9204, Fax: 512-327-2947
www.murfee.com

David Malish, P.E., Vice President
Murfee Engineering
1101 S. Capital of Texas Highway, Suite D110
Austin, Texas 78746
Telephone: 512-327-9204, Fax: 512-327-2947
www.murfee.com

Tom Arndt
Dannenbaum Engineering
3409 Executive Center Drive, Suite 129
Austin Texas 78731 US
Telephone: 512-345-8505
www.dannenbaum.com

Scott Foster
360 Professional Services, Inc.
P.O. Box 3639
Cedar Park, TX 78630-3639
Telephone: (512) 354-4682
Fax: (512) 900-7962
www.360psinc.com

Garry Kimball
Specialized Public Finance, Inc.
248 Addie Roy Road
Suite B-103
Austin, Texas 78746
Telephone: (512) 275-7301
www.spubfin.com

(2) the subject matter on which the expert will testify;

RESPONSE: Mr. Joyce will testify on behalf of Petitioners regarding the appropriate rate for the City of Austin, including the cost of service.

Mr. Murfee will testify regarding the existing infrastructure of the City of Austin, the new infrastructure being built that is unrelated to the provision of service to the Petitioners, and the included costs for unnecessary infrastructure that are not reasonable and necessary expenses of the utility.

Mr. Malish will testify regarding the existing infrastructure of the City of Austin, the new infrastructure being built that is unrelated to the provision of service to the Petitioners, and the included costs for unnecessary infrastructure that are not reasonable and necessary expenses of the utility.

Mr. Arndt will testify regarding the existing infrastructure of the City of Austin serving Travis County WCID No. 10, the new infrastructure being built that is unrelated to the provision of service to the Petitioners, and the included costs for unnecessary infrastructure are not reasonable and necessary expenses of the utility.

Mr. Foster will testify regarding the existing infrastructure of the City of Austin serving Northtown MUD, the new infrastructure being built that is unrelated to the provision of service to the Petitioners, and the included costs for unnecessary infrastructure are not reasonable and necessary expenses of the utility.

Mr. Kimball will testify regarding financial policies necessary to secure public financing for utility projects.

(3) the general substance of the expert's mental impressions and opinions and a brief summary of the basis for them, or if the expert is not retained by, employed by, or otherwise subject to the control of the responding party, documents reflecting such information:

RESPONSE: Mr. Joyce will testify regarding the City of Austin's proposed rate and cost of service and his recommendation that the TCEQ deny the rate increase as proposed by the City of Austin. The general substance of Mr. Joyce's mental impressions and opinions is that he believes a rate increase is not warranted based upon the water utility's cost of service and known and measurable changes. Mr. Joyce bases his opinions upon the filings by all Parties in this matter, the prior orders of the TCEQ regarding the City of Austin and other retail public utilities, his knowledge and experience with the TCEQ rules, orders, laws, and policies and with the Texas Water Code, his knowledge of the City of Austin's facilities and associated property, his knowledge and experience as a rate consultant, and the files within the possession of the Texas Commission on Environmental Quality.

Mr. Murfee will testify regarding the City of Austin's proposed rate and cost of service and his recommendation that the TCEQ deny the rate increase as proposed by the City of Austin. The general substance of Mr. Murfee's mental impressions and opinions is that he believes that the costs associated with the construction of new infrastructure included in the rate design are not reasonable or necessary expenses of the day-to-day operations of the utility, and the values included in the application do not accurately reflect those costs incurred by the utility during the test year. Mr. Murfee bases his opinion upon the filings by all Parties in this matter, his knowledge and experience with the City of Austin's operation, his knowledge and experience as a Licensed Professional Engineer, his knowledge of the City of Austin's facilities and associated property, and the files within the possession of the Texas Commission on Environmental Quality for this matter.

Mr. Malish will testify regarding the City of Austin's proposed rate and cost of service and his recommendation that the TCEQ deny the rate increase as proposed by the City of Austin. The general substance of Mr. Malish's mental impressions and opinions is that he believes that the costs associated with the construction of new infrastructure included in the rate design are not reasonable or necessary expenses of the day-to-day operations of the utility, and the values included in the application do not accurately reflect those costs incurred by the utility during the test year. Mr. Malish bases his opinion upon the filings by all Parties in this matter, his knowledge and experience with the City of Austin's operation, his knowledge and experience as a Licensed Professional Engineer, his knowledge of the City of Austin's facilities and associated property, and the files within the possession of the Texas Commission on Environmental Quality for this matter.

Mr. Arndt will testify regarding the City of Austin's proposed rate and cost of service and his recommendation that the TCEQ deny the rate increase as proposed by the City of Austin. The general substance of Mr. Arndt's mental impressions and opinions is that he believes that the costs associated with the construction of new infrastructure included in the rate design are not reasonable or necessary expenses of the day-to-day operations of the utility, and the values included in the application do not accurately reflect those costs incurred by the utility during the test year. Mr. Arndt bases his opinion upon the filings by all Parties in this matter, his knowledge of the City of Austin's operation, his knowledge and experience as a Licensed Professional Engineer, his knowledge of the City of Austin's facilities and associated property, and the files within the possession of the Texas Commission on Environmental Quality for this matter.

Mr. Foster will testify regarding the City of Austin's proposed rate and cost of service and his recommendation that the TCEQ deny the rate increase as proposed by the City of Austin. The general substance of Mr. Foster's mental impressions and opinions is that he believes that the costs associated with the construction of new infrastructure included in the rate design are not reasonable or necessary expenses of the day-to-day operations of the utility, and the values included in the application do not accurately reflect those costs incurred by the utility during the test year. Mr. Foster bases his opinion upon the filings by all Parties in this matter, his knowledge of the City of Austin's operation, his knowledge and experience as a Licensed Professional Engineer, his knowledge of the City of Austin's facilities and associated property, and the files within the possession of the Texas Commission on Environmental Quality for this matter.

Mr. Kimball will testify regarding the City of Austin's proposed rate and cost of service and his recommendation that the TCEQ deny the rate increase as proposed by the City of Austin. The general substance of Mr. Kimball's mental impressions and opinions is that he believes that the costs associated with the bond coverage and financial policies of the City of Austin included in the rate design are not reasonable or necessary expenses of the utility, and the values included in the application do not accurately reflect those costs incurred by the utility during the test year. Mr. Kimball bases his opinion upon the filings by all Parties in this matter, his knowledge and experience as a financial advisor, his knowledge of the City of Austin's bond documents and financial policies, and the files within the possession of the Texas Commission on Environmental Quality for this matter.

(4) if the expert is retained by, employed by, or otherwise subject to the control of the responding party:

- (A) all documents, tangible things, reports, models, or data compilations that have been provided to, reviewed by, or prepared by or for the expert in anticipation of the expert's testimony; and

RESPONSE: Available for inspection and copying at the offices of Randall B. Wilburn, Attorney-at-Law, located at 3000 South IH 35, Suite 150, Austin, Texas 78704.

B) the expert's current resume and bibliography;

RESPONSE: The current resumes, including bibliographies, of Messrs. Joyce, Malish, Arndt, Foster and Kimball are attached as Exhibits P-1, P-2, P-3, P-4 and P-5 respectively.

(h) any settlement agreements described in TRCP 192.3(g);

RESPONSE: None.

(g) any indemnity and insuring agreements described in Rule 192.3(g);

RESPONSE: None

(i) any witness statements described in TRCP 192.3(h).

RESPONSE: None.

JAY JOYCE

President

EXPERGY®

325 N. Saint Paul St., Suite 2100

Dallas, Texas 75201

Phone 214 432 2500 Fax 214 722 0363

www.expergy.com

Experience:

Water and Wastewater Utility Consulting

- Mr. Joyce has directed engagements associated with the following water, wastewater, and steam production utilities:

Cost of Service Studies/Rate Studies

Aqua Texas (water & wastewater)
Chisholm Trail Special Utility District (water)
City of Arlington (wastewater)
City of Austin (water)
City of Kilgore (water)
City of Knollwood (water and wastewater)
City of Lewisville (water and wastewater)
City of Mesquite (water and wastewater)
City of Midlothian (water)
City of North Richland Hills (water and wastewater)
City of Paris (water and wastewater)
City of Pflugerville (water and wastewater)
City of Rollingwood (water and wastewater)
City of Rowlett (water and wastewater)
City of Waco (water)
City of West Lake Hills (wastewater)
Cottonwood Creek MUD No. 1 (water and wastewater)
Crosby Municipal Utility District (water and wastewater)
Culleoka Water Supply Corporation (water)
Dallas Water Utilities (water and wastewater)
Fort Worth Water Department (water)
Guam Water Works (water and wastewater)
Lakeside Utilities, Inc (water and wastewater)
Lakeway Municipal Utility District (water and wastewater)
Lower Colorado River Authority (wastewater)
Metro H2O (water)
Monarch Utilities (water)
Nashville Metro Water Services (wastewater)
Nashville Thermal Transfer Corporation (steam)
Northtown Municipal Utility District (water and wastewater)
Paseo del Este Municipal Utility District No. 1 (water and wastewater)
Rockett Special Utility District (water)
Titus County Fresh Water Supply District No. 1 (water)
Town of Flower Mound (water)
Travis County Municipal Utility District No. 2 (water and wastewater)
Travis County Municipal Utility District No. 4 (water and wastewater)
Travis County Municipal Utility District No. 11 (water and wastewater)
Travis County Municipal Utility District No. 12 (water and wastewater)
Travis County Municipal Utility District No. 13 (water and wastewater)
Travis County Municipal Utility District No. 14 (wastewater)



EXPERGY

Engineering. Water. Air. & Earth.

Water and Wastewater Utility Consulting (continued)

Trinity River Authority (water)
Trinity Water Reserve, Inc. d/b/a Devers Canal System (water)
United Irrigation District of Hidalgo County (water)
West Travis County Public Utility Agency (water)
Wilbarger Creek MUD No. 1 (water and wastewater)
Windermere Utility Company (wastewater)

Management Audits

Brazos River Authority
City of Houston Public Works & Engineering
City of New Orleans
Dallas Water Utilities
Trinity River Authority

Electric and Gas Utility Consulting

- Mr. Joyce has directed engagements associated with the following electric and gas utilities:

American Electric Power - Appalachian Power Company
American Electric Power - Public Service Company of Oklahoma
American Electric Power - Texas Central Company
American Electric Power - Texas North Company
American Electric Power - Wheeling Power Company
Arkansas-Oklahoma Gas Company
Atlanta Gas Light
Atmos Energy
CenterPoint Energy
City of Charlottesville Gas Utility
Colorado Public Service Company
CoServ
Denton County Electric Cooperative
Detroit Edison
Dominion Virginia Electric Power Company
El Paso Electric Company
Elizabethtown Gas
General Public Utilities
Houston Lighting & Power Company
Illinois Power Company
Kansas City Power & Light Company
Lone Star Gas Company
MCN Corporation
Mt. Carmel Public Utilities
New Century Energies
NewPower
Northern States Power
Oncor Electric Delivery Company
Pedernales Electric Cooperative
Puget Sound Power & Light
San Diego Gas & Electric
Southern California Gas
Southern Union Gas Company



Southwest Power Pool
 Southwest Public Service Company
 Southwestern Bell Telephone Company
 Texas-New Mexico Power Company
 Tucson Electric Power
 TXU Electric Delivery
 TXU Energy Retail
 TXU Gas Distribution
 TXU Lone Star Pipeline
 Vectren Energy Delivery of Ohio
 Washington Natural Gas
 Western Resources
 Wisconsin Electric Company

Selected Engagement Summaries:

- Directed the valuation of Mt. Carmel Public Utilities, a small investor-owned electric and gas company. The scope of the engagement included ratio analyses for comparable electric utilities, the evaluation of financial performances, analysis of strategic characteristics affecting value and regulatory environment analysis.
- Directed the valuation of CoServ's electric utility business primarily relying on a discounted cash flow analysis, and supported by per-meter analyses of market comparables. A range of overall values was developed for various growth scenarios.
- Conducted settlement negotiations on behalf of Lakeside Utilities, Inc. for the water and wastewater rate increase request before the TNRCC. Issues included valuation of plant-in-service, return, federal income tax methodology and working capital allowance.
- Directed the City of Pflugerville's valuation of the Windermere Utility Company's net assets relating to a potential purchase of the assets. Extensive research concentrated on the utility's contributed capital and corresponding obligations to provide current and future water service.
- Supervised a cost segregation study on behalf of Titus County Fresh Water Supply District No. 1 relating to the planned purchase of water rights in a reservoir owned and operated by Franklin County Water District. The study identified the reservoir expenses unrelated to water supply for exclusion from the cost sharing mechanism contemplated in the proposed agreement.
- Directed the litigation efforts for the City of Waco, Texas pertaining to a Texas Natural Resources Conservation Commission appeal of the water rates charged by Waco to a wholesale customer. Prepared expert testimony, directed cross-examination of witnesses, and participated in extensive negotiations and mediation.
- Participated in litigation assistance for the proposed merger of Southwestern Public Service Company and Public Service Company of Colorado. Activities included development of rebuttal testimony and assistance with discovery requests before the Texas, Colorado and New Mexico regulatory commissions negotiations and mediation.
- Filed expert testimony on the appropriate ratemaking treatment of \$89 million in Houston Lighting & Power Company restructuring costs. Participated in all



- aspects of the case before the Public Utility Commission of Texas ("PUCOT"), including discovery; analyses of plant-in-service (post-test-year adjustments), labor costs and employee benefits; preparation of expert witness testimony; and assistance with settlement negotiations
- Filed expert testimony on Texas-New Mexico Power Company regulatory commission expenses before the PUCOT. Conducted prudence reviews of the construction of generating facilities at TNP One (Units 1 and 2). Directed the engagements, coordinating the efforts of in-house consultants, outside consultants, attorneys and client representatives.
- Directed settlement negotiations during the Denton County Electric Cooperative rate proceeding before the PUCOT. Managed the preparation of expert testimony encompassing financial integrity, kWh sales forecasts and treatment of G&T credits
- Directed the analysis of a potential merger of Washington Natural Gas Company with Puget Sound Power & Light. Activities included identification of available operational cost savings; financial modeling; projection of future combined financial operations; development of regulatory testimony; and litigation assistance on regulatory issues, deposition preparation and discovery questions for approval at the Washington Utilities and Transportation Commission
- Assisted Tucson Electric Power in quantifying "stranded costs" in preparation for a regulatory filing at the Arizona Public Service Commission. In connection with this filing, the company required extensive assistance with the management of the development of the stranded cost quantification and the development of the resultant effect on revenue requirements. Significant issues included the treatment of regulatory assets and the potential reclamation costs at the Four Corners Generating Facility
- Managed the development of a cash working capital analysis (lead/lag study) for TXU Electric Company. The project incorporated an in-depth review of company records to establish the revenue recovery/cost payment patterns reflected by the electric system operations and provided the material required for the potential preparation of rate filing exhibits and testimony consistent with the rate filing requirements adopted by the Public Utility Commission of Texas
- Testified in the wastewater rate dispute between the City of Lewisville and the City of Highland Village before the Texas Natural Resource Conservation Commission ("TNRCC"). Conducted settlement negotiations and filed an affidavit on rate calculations in the subsequent TNRCC proceeding. Assisted legal counsel in the district court case involving the same dispute. Directed the preparation of expert testimony in the TNRCC case and assisted with discovery, cross-examination, closing arguments, exceptions to proposal for decision and presentation before commissioners at the final order meeting.
- Directed settlement negotiations between Culeoka Water Supply Corporation and the City of Princeton for the water rate dispute before the TNRCC. The central issue involved the premium charged by the city on water purchased from North Texas Municipal Utility District.
- Directed the filing of expert witness testimony on behalf of United Irrigation District of Hidalgo County relating to the cost of providing water transportation services to Sharyland WSC for dispute at the TNRCC. Issues included valuation of water rights and contractual requirements.

Previous employment experience:	Owner Alliance Consulting Group	2005 - 2008
	Director Management Applications Consulting, Inc.	2003 - 2005
	Senior Manager, Financial Advisory Services Deloitte & Touche LLP	1995 - 2003
	Manager Reed-Stowe & Co., Inc.	1989 - 1995
	Real Property Appraiser Kaiser & Associates	1986 - 1988
Education:	Southern Methodist University, M.B.A. University of Texas at Austin, B.B.A., Finance	
Professional:	American Water Works Association Water Environment Federation Institute of Management Consultants	
Presentations:	Texas Water Conservation Association: "Conservation Rates" Water Environment Federation of Texas: "Alternative Funding for Capital Improvements" Texas Rural Water Association: "How to Determine Your Cost of Service"	



Murfee Engineering Company, Inc.

DAVID MALISH, P.E.

CURRENT POSITION:

Vice President, Murfee Engineering Company, Inc.

EDUCATION:

Bachelor of Science, Civil Engineering (1973)
University of Texas at Austin

Master of Science, Environmental Health Engineering (1975)
University of Texas at Austin

REGISTRATIONS:

Registered Professional Engineer – Texas #47757
Registered Professional Engineer – New Mexico #13018
Registered Professional Engineer – Mississippi #15012
Registered Professional Engineer – Colorado #36007
Registered Professional Engineer – Georgia #027249
Registered Professional Engineer – Alabama #27245

PROFESSIONAL AFFILIATIONS:

Member, National Society of Professional Engineers
Member, American Society of Civil Engineers
City of Austin Water and Wastewater Commission (1990-1994)
Member, Water Environment Federation
Member, American Water Works Association
Member, Austin Contractors and Engineers Association
Member, Texas Water Conservation Association

BRIEF LIST OF DIRECTLY RELATED EXPERIENCE:

- Project Director for the Windermere Wastewater Treatment Plant and expansion.
- Project Director for the Forest Creek Wastewater Treatment Facility.
- Design engineer responsible for the preparation of plans for the Cottonwood Wastewater Treatment Plant (MBR).
- Design engineer for Plaza on the Lake Wastewater Treatment Plant.
- Project Director for the preparation and processing of twelve wastewater permit applications, amendments and renewals.
- Recently prepared designs for two water pressure booster stations for the North Austin MUD No. 1.

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Murfee Engineering Company, Inc.

- Responsible for the preparation of detailed design and specifications for improvements to the 8,000 gpm Travis County MUD #4 surface water intake structure.
- Project director and primary design engineer for the reconstruction of the Rattan Creek Lift Station and force main.
- Responsible for the design of the 250,000 gallon elevated Travis County WCID #20 storage tank along Bee Cave Road, Travis County, Texas.
- Project Director for the redesign/relocation of the Lake Creek Lift Station.
- Responsible for the design of the 400,000 gallon Lower Colorado River Authority (LCRA) elevated storage tank along Bee Cave Road, Travis County, Texas.
- Project Director for the design of the 800,000 gallon per day Travis County WCID #20 surface water treatment plant in Travis County, Texas as well as a 1.0 MGD expansion to that facility.
- District engineer for North Austin MUD No. 1 1987 to present.
- Responsible for the design of the groundwater production and treatment facilities for the New Mexico Border Crossing facilities in Dona Ana County, New Mexico.
- Developed water and sewer master plan for continued expansion of the Wells Branch Municipal Utility District System in Travis and Williamson County, Texas. This work included establishing a water model for service predictions, system expansion requirements, and diagnosing system deficiencies.
- Developed water and wastewater master plan for continued expansion of the North Austin Municipal Utility District system in Travis and Williamson County, Texas. This work included establishing a water model for service predictions, system expansion requests, and diagnosing system deficiencies.
- Project Director for the design of the 520 gpm surface water intake structure and expansion for the Travis County WCID #20 Development in Austin, Texas.

ENGINEERING WORK HISTORY:

Summer 1973	Design Engineer in Training Freese & Nichols, Inc. Fort Worth, Texas
1975 – 1978	Research Engineer in Training Radian Corporation Austin, Texas
1978 – 1982	Research and Design Engineer SumX Corporation Austin, Texas
1982 – Present	Vice President – Design Engineer Murfee Engineering Company, Inc. Austin, Texas

THOMAS C. ARNDT, P.E.

Office/Project Manager

Bachelor of Science in Civil Engineering (1980)
Colorado State University

Professional Registration:

P.E., Professional Engineer, State of KS, #10063

P.E., Professional Engineer, State of TX, #59135

P.E., Professional Engineer, State of AZ, #22544

Associations: American Society of Civil Engineers (ASCE), National & Texas Society of Professional Engineers (NSPE/TSPE), American Water Works Association (AWWA), American Council of Engineering Companies (ACEC), Greater Austin Contractors & Engineers Association (ACEA), Austin Chamber of Commerce

Employment History:

Dannenbaum Engineering Corporation, Austin Texas, September 1985 to Present

- Partner, 2000 to present
- Austin Division Office Manager, 1993 to present
- Project Manager, 1989 to present
- Project Engineer, 1985 to 1989

Kansas Department of Transportation, June 1980 to August 1985

Professional Experience

Mr. Arndt has 34 years of engineering experience with over 29 years in municipal utility design including water distribution systems, water storage facilities, water pump stations, wastewater collection systems and wastewater lift station design. In addition, Mr. Arndt has a variety of project experience in highways & streets, airports, drainage and land development.

WATER

Travis County WCID No. 10, District Engineer

Retained as the WCID No. 10 District Engineer for the past 21 years. Responsible for providing various engineering services to Travis County WCID No. 10 consistent with developing a Master Water Plan; conducting studies; performing design services; and preparing construction plans for all water system facilities within the District including pumping, storage, transmission and distribution facilities. System modeling is performed to assure the development of an economical water system, and various engineering studies have been performed, including annexation studies, emergency flow studies and updates of system maps to serve over 2,200 customers. These facilities are continuously reviewed and expanded as needed in order to meet the needs of the District.

Travis County WCID No. 10, Ridgewood Village Waterline Improvements, Project Manager

In May 2012, WC&ID 10 annexed a private water system in a single family subdivision in response to requests by the City of West Lake Hills, City of Austin, Texas Commission on Environmental Quality (TCEQ) and the owner. The system consisted of 4" to 6" waterlines fed from a well which was being over pumped. Dannenbaum prepared 15 alternatives for improvements to the system in order to bring it up to current design criteria and provide fire flow capabilities. This project included the design for the replacement of 4,200 feet of waterline with 8 inch lines throughout the Ridgewood Village subdivision. The new system included pressure reducing valves, an additional master meter, additional fire hydrants and 94 service connections. Dannenbaum was responsible for the design, bidding and construction administration. Dannenbaum obtained approvals from the Austin Water Utility, City of West Lake Hills, West Lake Fire Department, City of Austin Planning & Development Review Department (Site Development Permit) and TCEQ.

Travis County WCID No. 10, Kings Row Waterline, Project Manager

This project included the design of the replacement of 600 feet of 2 ¼ - inch waterline with an 8-inch waterline in order to provide better domestic service and fire flow. The project was challenging in that Kings Row is a narrow roadway with limited right-of way, along with the proximity of large healthy trees and the requirement to maintain access to residences and businesses. Dannenbaum was responsible for the design and construction administration. Dannenbaum obtained approvals from the Austin Water Utility, Travis County, West Lake Fire Department and TxDOT.

Travis County WCID No. 10, RM 2244 Waterline, Project Manager

Managed the design for the relocation of 1,600' of 12" water line along Bee Caves Road (RM 2244) in conjunction with the roadway widening project by TxDOT that involved conducting the acquisition of an easement for approximately half of the project's length. Project challenges involved limited ROW, coordination with numerous utilities, proximity of large healthy trees, and the requirement to continuously provide water service to businesses. Mr. Arndt was instrumental in obtaining approvals for the Austin Water Utility and TxDOT.

Travis County WCID No. 10, Red Bud Pump Station Improvements, Project Manager

Dannenbaum provided design & construction administration services for the rehabilitation/ expansion of Travis County WCID 10 Pump Station No. 1 to 10 MGD firm pumping capacity, requiring the addition of one new 2250 GPM vertical turbine pump, adding variable speed motors to two pumps allowing for the removal of three small pumps, and replacement of the entire electrical system to meet current codes and to serve the District during periods of low flow. Work included a new electrical/PLC building that allowed for a future SCADA system, an additional 12-inch water discharge line, and renovation of the existing pump building.

South 1st Street Water Line Replacement, Austin Texas, Project Manager

This project includes the replacement of 2,800 LF of 8-inch water line along with 30 water services. The project is located south of downtown Austin and is complicated by the number of existing utilities and the need to maintain traffic on this major arterial.

Travis County WCID No. 10, Eanes ISD Waterline, Project Manager

Design services for approximately 6500 linear feet of 12-inch water transmission main to increase Fire Flow to 2 elementary schools and a High School. The project was designed, bid and constructed within 1 year to enable the schools to open the new school year without construction activity occurring.

Rob Roy Water Storage Facility, Travis County, Texas, Project Manager

Design of a 1 million-gallon water storage tank to increase the water supply for the 1080-pressure plane. Construction plans included site preparation and steel tank with telemetry controls to Pump Station No. 2. The storage tank was part of an overall capital improvements program to provide increased pressure, water availability, and fire flow.

Bee Caves Road (RM 2244) Water Line Relocation, Travis County, Texas, Project Manager

Design of 7,500 linear feet of 8-inch and 12-inch water lines necessitated by the roadway widening to be performed by TxDOT.

Rob Roy Subdivision Water Line Upgrade, Travis County, Texas, Project Manager

This project included design of 11,700 linear feet of 12-inch to 20-inch diameter parallel water transmission mains in the 250-connection Rob Roy Subdivision. These mains were necessary in order to maintain sufficient pressure during the dry summer months when water use is at a peak.

Camelot Subdivision Water Line Upgrade, Travis County, Texas, Project Manager

Design of 3,700 linear feet of 6 and 8-inch diameter line that replaced the existing 2.25 and 4-inch diameter lines. These mains were necessary to insure sufficient domestic and fire flow for both the Upper and Lower Camelot Subdivisions.

Rob Roy Water Master Plan, Travis County, Texas, Project Manager

Retained to prepare a water master plan for the Rob Roy subdivision, an upscale development with 250 connections. The existing system of 6 and 8-inch lines proved to be inadequate due to the amount of residential irrigation demands, which are over 500,000 gallons per month for some of the connections. The irrigation demands led to low pressures at certain locations, leading to concerns of the available fire protection. Utilized the Kentucky Pipe Model (KYPIPE) to extensively analyze the system for the residential domestic and irrigation demands, the future commercial requirements and the fire flow requirements. The initial project added 12, 16 and 20-inch transmission mains. Subsequent projects will be constructed by developers and will complete the looped system for this subdivision.

Travis County WC&ID No. 10 Water Master Plan, Travis County, Texas, Project Manager

This water master plan was prepared in order to establish the District's 10-year upgrade requirements and was subsequently incorporated into a \$3,000,000 bond application submitted to Texas Natural Resources Conservation Commission. Extensive Kentucky Pipe Modeling (KYPIPE) modeling was performed to identify the projects required to maintain sufficient domestic and fire protection flows. The plan recommend 3 major transmission main projects, the construction of an additional 1,000,000-gallon storage facility and the addition of 4,000 gpm of pumping capacity. The capital improvement program is ongoing with the transmission and storage facilities completed. Responsible for design, permitting and construction phase services for this program.

Riske Pump Station, Travis County, Texas, Project Engineer

This project involved the design of a booster pump station to serve a low-pressure area.

990 Water Transmission Main, Travis County, Texas, Project Engineer

This project included the design of approximately 2,900 linear feet of 12-inch water transmission main to increase the transmission capacity to the northern half of the District. The additional capacity was required to provide fire flow capabilities in this portion of the District.

WASTEWATER**Seaholm Wastewater Line, Austin Texas, Project Manager**

Dammenbaum provided design services which included 2,000 feet of 24 and 30-inch wastewater line facilities necessary to intercept wastewater flows discharging into the Shoal Creek Lift Station to be decommissioned. The new wastewater interceptor reversed flows toward the west, conveying the flows parallel to Cesar Chavez Street, discharging into the Downtown Wastewater Tunnel, just west of Lamar Boulevard. The project included eight shafts for deep manholes, two of which were vortex structures, and crossed park land, requiring approval by the Parks Board and City Council. The project also involved coordination with the Gables at Park Plaza, Seaholm Power Plant, Green Water Treatment Plant, and the Seaholm Redevelopment District.

South 1st Street Wastewater Line Replacement, Austin Texas, Project Manager

This project includes the replacement of 3,700 LF of 8 and 12-inch wastewater lines along with nearly 80 wastewater services. The project is located south of downtown Austin and is complicated by the number of existing utilities and the need to maintain traffic on this major arterial.

Spring Lake Lift Station, Austin, Texas, Project Manager

The wet/dry well lift station will pump 1100 gpm to a relief line or 600 gpm to the Tech-Hydro WWTP and includes a back-up generator, odor control, and SCADA. This project took place in an existing subdivision on a lot adjacent to homes and involved environmental and aesthetic issues.

Balcones Village Wastewater & Reuse Lines, Austin, Texas, Project Manager

The project was for the design and construction of wastewater, reuse water, and water improvements for the existing 800-lot Balcones Village subdivision that currently had individual septic systems. The work involved the design of a reuse water supply distribution system for residential irrigation. It was a pilot program designed to reduce potable water usage in residential areas with reuse irrigation water. Included were 39,000 linear-feet of 8-inch to 18-inch gravity wastewater lines; 7,000 linear-feet of 8-inch to 12-inch force mains; and 39,000 linear feet of 6-inch to 12-inch water reuse lines with services to each lot.

Austin Annexed Area Water & Wastewater Master Plan, Austin, Texas, Project Manager

This project included the master planning and a preliminary engineering study to determine the water and wastewater improvements necessary to provide service for a 20-square-mile area northwest of Austin that was annexed by the City. This area includes seven municipal utility districts with and without water and/or wastewater systems. The study included water/wastewater systems data collection and review including preparation of rate analysis; data development including the evaluation of condition and usefulness of existing water and wastewater facilities; elimination of lift stations, rerouting wastewater interceptors; evaluation of the use of wastewater effluent for golf course irrigation purposes; evaluation of the potential for alternate wastewater collection and treatment systems for portions of the study area; and evaluation of the development of a water factory using wastewater treatment plant effluent and processing it to a high quality in order to provide a secondary use water system for residential irrigation.

West Bouldin Interceptor Wastewater, Austin, Texas, Project Manager

This project included a preliminary engineering study for 3.4 miles of wastewater interceptor 8 inches to 30 inches in diameter. The need for this investigation was due to the deficiencies in the sizing, overflow and existing line conditions. This study included flow monitoring, condition surveys and the analysis of alternative alignments. Phase A included 8,500 feet of interceptor from the south side of Barton Springs Road running north to Cumberland Road. Due to the environmental sensitivity of West Bouldin Creek and the depth of portions of the line, the contractor was given the option of boring and jacking or microtunneling in these locations. In addition, bank stabilization, sealed manholes and concrete caps above the wastewater line were required where the interceptor crosses or runs along the creek.



Scott J. Foster, P.E., LEED AP — Principal-in-Charge

Scott has more than 20 years of diverse private and public experience in Austin, Texas and surrounding communities. As a project manager, Scott has extensive experience in taking projects from initial site feasibility and due diligence through preliminary and final design to construction and final punch lists. Typical duties include supervision of design team, coordination of development requirements, quality control, client development, client contact, and monitoring of the governmental review and approval processes. He has a reputation among his clients and peers for providing exceptional quality in his work product, superior communication, and team coordination, all of which keep projects on schedule and within budget constraints in order to achieve the project's objectives. His thorough understanding of land development makes him an invaluable asset to clients and team members.

Professional Credentials

Bachelor of Science, Civil Engineering, Texas A&M University, 1994

Licensed Professional Engineer

LEED® Accredited Professional

Texas Department of Transportation Pre-Certification

Category 1 4 1 – Land Planning/Engineering

Category 9.1.1 – Bicycle and Pedestrian Facility Development

Representative Project Experience

- Frost Tower – Austin, TX
- Colorado Tower – Austin, TX
- Sonterra Single Family Master Planned Community – Jarrell, TX
- Hill Country Galleria – Bee Cave, TX
- Northtown MUD District Engineer – Austin, TX
- Block 29 - Austin, TX
- Cedar Park Aquatic Center – Cedar Park, TX
- Cedar Park Library – Cedar Park, TX
- Round Rock Aquatic Center – Cedar Park, TX
- Killeen Aquatic Center – Killeen, TX
- Whole Foods Transportation Facility - Austin, TX
- Whole Foods – Bee Cave, TX
- Belmont Village – West Lake, TX
- Ben E Keith – Austin, TX
- Office Depot - Austin, TX
- Sarita Valley Master Planned Community – Leander, TX
- Cedar Park Town Center – Cedar Park, TX
- Bee Cave Central Park – Bee Cave, TX
- HEB - Dripping Springs, TX
- HEB – Leander, TX
- Goodwill Transportation Facility – Austin, TX
- Goodwill Retail Store – Pflugerville, TX
- Research Park-Austin, TX
- Office Depot - Austin, TX
- Avery Park Master Planned Community – New Braunfels, TX
- Cameron Road Corporate Park - Austin, TX
- Kohl's Department Stores – Various, TX
- Murphy Oil - Nationwide

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Professional Experience: Mr. Kimball has served as a financial advisor since 1993. He has represented city, county, school, special district and utility authority clients on a vast array of public infrastructure projects involving both tax-exempt and taxable bond issuance. Mr. Kimball also has experience with public/private project finance, tender option bond repurchase and multi-party conduit financing for regional projects. Mr. Kimball has served as lead banker on over 500 separate bond transactions with a total principal value in excess of \$5 billion.

Prior to joining the founding partners of Specialized Public Finance Inc., Mr. Kimball was a Senior Vice President with First Southwest Company. During his 15 years with this firm, he was a regulatory supervisor for the Austin office, a member of the firm's Operating Committee and a member of the firm's Special District Underwriting Committee. Mr. Kimball also worked for Dresdner Bank AG in New York and Chicago and the Royal Bank of Canada in Chicago and Dallas between 1988 and early 1993. Mr. Kimball was a member of the Board of Directors of the Municipal Advisory Council of Texas in 2008. Mr. Kimball was also the lead financial advisor for the Copperas Cove By-Pass Project, which won the 2012 NADO Excellence in Regional Transportation award for *Innovative Finance & Project Delivery*.

Education / Licenses: Mr. Kimball graduated with high honors from the University of Texas at Austin with a Bachelor of Arts degree in Government. He also received his Master of Business Administration degree with a concentration in Finance from the University of Texas at Austin. He is a registered Investment Advisor Representative with the Texas State Securities Board.