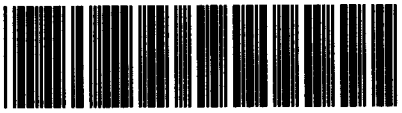

Control Number: 44200

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House Bill (HB) 1600 and Senate Bill (SB) 567 83rd Legislature, Regular Session, transferred the functions relating to the economic regulation of water and sewer utilities from the TCEQ to the PUC effective September 1, 2014

44200

SOAH DOCKET NO. 582-01-3914
TNRCC DOCKET NO. 2001-0845-UCR

APPLICATION BY VILLAGE OF WIMBERLEY TO OBTAIN A SEWER CERTIFICATE OF CONVENIENCE AND NECESSITY IN HAYS COUNTY	§ § § §	BEFORE THE STATE OFFICE OF ADMINISTRATIVE HEARINGS

VILLAGE OF WIMBERLEY'S PREFILED DIRECT TESTIMONY OF PHILLIP L. COOK

BICKERSTAFF, HEATH, SMILEY,
POLLAN, KEVER & MCDANIEL, L.L.P.
1700 Frost Bank Plaza
816 Congress Avenue
Austin, Texas 78701-2443
(512) 472-8021
(512) 320-5638 (FAX)

Dated: April 19, 2002

SOAH DOCKET NO. 582-01-3914
TNRCC DOCKET NO. 2001-0845-UCR

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Q. Please state your name and business address.

A. My name is Phillip L. Cook. My business address is 14100 San Pedro Avenue, Suite 310, San Antonio, Texas 78250.

Q. With whom are you employed and in what capacity?

A. I am employed by Black & Veatch Corporation as a Project Manager specializing in water treatment and wastewater treatment.

Q. Please describe your educational background and professional experience.

A. I obtained a B.S. in Civil Engineering from the University of Missouri in 1983. I have nineteen (19) years of professional experience.

Q. Do you hold any professional licenses?

A. I am a licensed Professional Engineer in Texas and Arizona.

Q. Are you a member of any professional associations?

A. No.

Q. Please describe your experience in the area of municipal sewer service.

A. I have worked exclusively in the study, design, and construction of water and wastewater systems for municipalities. Recent work includes the design of improvements at the San Antonio Water Systems, Dos Rios Wastewater Treatment Plant.

Q. Please describe your involvement with the design of municipal sewer systems?

A. I am currently project manager for the West Gate sewer improvements project for Austin, Texas.

Q. Have you ever testified before?

A. Yes.

Q. In what cases and in what capacity?

A. For the defense of Filanc Construction Company involving a case by Sofa Engineering over construction of Lenain Filtration Plant in Anaheim, California.

Q. Have you prepared a resume describing your experience?

A. Yes. My resume is attached to my testimony as Wimberley Exhibit 33.

Q. What is your connection with this case?

A. I am Project Manager for the Wimberley wastewater masterplan.

Q. Is it your understanding that GRBA will provide sewer services on behalf of Wimberley?

A. Yes.

Q. Are you familiar with the engineering requirements prescribed in the TNRCC statutes and rules concerning sewer systems and wastewater treatment facilities?

A. Yes.

Q. As part of your job designing sewer systems, do you regularly rely on the TNRCC statutes and rules to guide you in your design of the system?

A. Yes.

Q. And, is it your understanding that the TNRCC requires sewer systems to comply with the design requirements set forth in TRNCC statutes and rules?

A. Yes.

Q. Please describe Wimberley's wastewater masterplan.

A. On March 7, 2002, Black & Veatch entered into an Engineering Services Agreement with Wimberley. A certified copy of that agreement is attached to Steve Klepfer's testimony as Wimberley Exhibit 24. The services that Black & Veatch are to perform with regard to Wimberley's wastewater masterplan are described in Attachment A to the Engineering Services Agreement.

On April 18, 2002, Wimberley, Blue Hole Management Ltd., and GBRA entered in a Memorandum of Understanding (MOU). The parties to the MOU agreed that

Phase I of Wimberley's wastewater masterplan will be completed within sixty (60) days of approval of the MOU. Based upon this schedule, it is expected that a draft of Phase I of Wimberley's wastewater masterplan will be completed shortly before the scheduled hearing in this case. Just as soon as the draft wastewater masterplan is completed, copies will be provided to all the parties and I will amend or supplement my testimony accordingly, probably at the time of trial.

Q. Based on the recommended capacities of the facilities you are proposing in the wastewater masterplan, approximately how many customers will the sewer system be able to serve?

A. The exact number is not known at this time. As we get closer to the completion of the wastewater masterplan, we will know the capacities of the facilities needed and how many customers can be served. I will supplement my answer as soon as this information is available.

Q. Will the Wimberley wastewater masterplan be designed in accordance with the design requirements of the TNRCC rules for sewer systems?

A. Yes.

Q. Do you have any preliminary cost estimates for the proposed sewer system?

A. Such cost estimates have not been fully developed at this time. Again, as the development of the wastewater masterplan gets closer to completion, these cost

estimates can be developed. As soon as such information is available, I will supplement my answer.

Q. When do you anticipate that Phase I of Wimberley's sewer system will be operational?

A. It depends on several factors including the alternative selected, obtaining electrical power, permitting, right-of-way and delivery method, but I anticipate that a small system could be in place in 12 to 18 months.

Q. Will the Wimberley sewer system allow Wimberley, through its operator GBRA, to provide sewer service to the requested area that meets or exceeds the TNRCC's design criteria in Chapter 317 of the TNRCC rules?

A. Yes.

Q. Will Wimberley, through its operator GBRA, be able to provide adequate and continuous sewer service to its customers in the requested area?

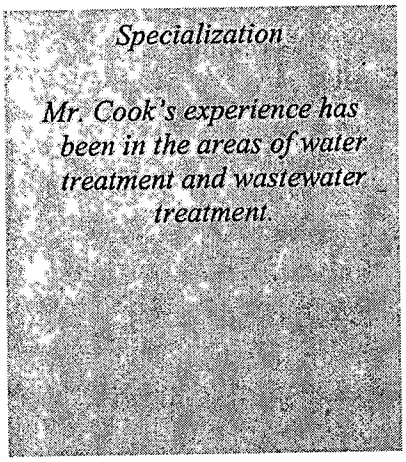
A. Yes.

Q. Does this conclude your testimony?

A. Yes. I reserve the right to amend or supplement my testimony at the time of trial to correct inadvertent mistakes and to reflect changes in circumstances.

PHILLIP L. COOK, P.E.

PROJECT MANAGER



Education
B.S., Civil Engineering, University of Missouri, 1983

Professional Registration
1994, Arizona, No. 28004
1997, Texas, No. 83129

Total Years Experience: 18
Joined B&V: 1983

Language Capabilities
English

File reference

Projects have included designs for pumping stations, water supply wells, water treatment plants, wastewater treatment plants and supporting facilities.

Relevant Project Experience

Water

Port Lavaca WTP Evaluation, Guadalupe-Blanco River Authority; Port Lavaca, Texas, (2001).
Project Manager. Responsibilities included investigating existing water quality, future regulatory requirements, revising design standards and making recommendations for operational changes and plant modifications.

Well Investigation Report, City of San Marcos; San Marcos, Texas, (2000).
Project Manager. Investigated membrane treatment, cartridge filtration, well rehabilitation and abandonment as alternatives to wells under the influence of surface water. Responsibilities included investigation of all alternative technologies, aquifer regulations, water resource summary, cost estimating and report coordination.

Water Treatment Plant Rerating, City of San Marcos; San Marcos, Texas, (2000-2001)
Project Manager. Project involved complete engineering report documenting plant performance and request to re-rate the water treatment plant from 6 mgd to 9 mgd. Responsibilities included investigations, writing, and project management.

Bedell Reservoirs and Pump Station, City of Del Rio; Del Rio, Texas, (2000-2001)
Project Manager. Design of two 2 million gallon steel water storage reservoirs and a 7 mgd pump station with horizontal split case pumps. Project is expandable to four 2 million gallon reservoirs and 14 mgd pump capacity. Responsibilities include technical coordination and project management.

Water Treatment Plant Expansion, City of Ennis; Ennis, Texas, (2000-2001).
Project Engineer. Project includes investigation of revised drinking water regulations, design of plant expansion from 6 mgd to 8 mgd, maintenance and replacement of equipment, implementation of automated controls, and design of new chemical feed systems including carbon, fluoride and polymer.

Exhibit 33

Membrane WTP Peer Review, Guadalupe-Blanco River Authority; Seguin, Texas, (2000).

Project Engineer. Conducted a peer review of a 10 mgd membrane filtration plant treating water from Canyon Lake, intake, backwash treatment and distribution system. Responsibilities included process review, alternative analysis, and cost estimating.

Water and Sewer Master Plan, City of Shreveport; Shreveport, Louisiana, (1998).

Project Engineer. Conducted a master plan for water supply, water treatment, water distribution, water recycling, water conservation, wastewater treatment, biosolids, and rates. Responsibilities included analysis and recommendations for water supply sources and water treatment alternatives.

New Surface Water Treatment Plant, City of San Marcos; San Marcos, Texas, (1996-1999).

Program Manager. Was program manager for a 6 mgd water treatment plant expandable to 24 mgd. Responsibilities included scheduling, budgeting, agency coordination, project coordination with pipeline work, and contract administration during the construction phase.

Main Street Reservoir and Facilities, City of Tustin; Tustin, California, (1996-1997).

Project Engineer. Designed a 2.2 MG buried reservoir, finished water pump station, 2,000 GPM well pump, and chlorination facilities.

Water Treatment Plant, City of Brawley; Brawley, California, (1994-1997).

Project Engineer. Designed a 15 mgd conventional water treatment plant with provisions to expand to 30 mgd and add ozone. Responsibilities included coordination of preliminary and final design, scheduling, agency coordination, conceptual development and contract administration. The plant will also serve as a regional water supply for Westmorland.

Dyer Road Well Field Disinfection Facilities, Irvine Ranch Water District; Irvine, California, (1995-1997).

Project Engineer. Duties included being responsible for pre-design, design, and construction support of two 2,000 pound per day chlorination facilities for Well 14 and final disinfection facilities for the future expansion of the 80 mgd Dyer Road Well Field. The project will help develop a standard for the District's chlorine scrubber facilities. The project included developing a partnering program with staff of the Engineering Department.

File reference

Irvine Desalter Pre-design and Design, Orange County Water District; Irvine, California, (1996).

Task Leader. Design of the Irvine Desalter included wellhead pumping, 50,000 L.F. pipelines and 6.5 mgd treatment facility for desalting and VOC removal. Responsibilities included design of chlorine and ammonia feed systems and finished water pump station; responsible for chloramine system pre-design and preliminary evaluation of permitting requirements.

I-5 Utility Relocation Project, City of Anaheim; Anaheim, California, (1995-1996).

Project Manager. The project included the relocation of 8- to 18-inch water service mains to accommodate the widening of Interstate Highway 5. Responsibilities included budgeting, scheduling, and managing subcontractors and resources.

Alternate Disinfection Study, City of Cerritos; Cerritos, California, (1995-1996).

Project Manager. The project investigated chlorine gas with scrubbing, sodium hypochlorite, on-site hypochlorite generation, and calcium hypochlorite tablet feeders as alternatives. Responsibilities included budgeting, scheduling, project conceptualization, and resource management.

Imperial Water Treatment Plant, City of Imperial; Imperial, California, (1995).

Technical Review. Provided technical review to the design team regarding the process selection and filter design for the modified 7 mgd WTP.

Canyon Lake Water Treatment Plant Feasibility Study and Design, Elsinore Valley Municipal Water District; Lake Elsinore, California, (1994).

Project Engineer. Project included design of new filters, backwash treatment facilities and process enhancements for a 9 mgd conventional surface water treatment plant. Responsibilities included coordination of study conception design, final design and construction phase services.

Lenain Filtration Plant Modifications Design and Construction, City of Anaheim; Anaheim, California, (1995-1996).

Project Engineer and Project Manager. As Project Engineer, coordinated technical elements of preliminary design of a replacement of an existing 15 mgd water treatment plant. Project included an alternative evaluation of CAC, direct filtration, and conventional treatment with and without ozone. Disinfection alternatives included sodium hypochlorite vs. chlorine. The final project included a full conventional water plant with ozone, inclined plate settlers, deep bed monomedia filters, and nine chemical feed systems.

File reference

As Project Manager, responsibilities included supervision of construction phase services including inspection, drawing review, RFI response, and change order negotiation.

Valley-Wide Treated Water Alternatives Feasibility Study, Imperial Valley Treated Water Task Force; El Centro, California, (1994).
Project Engineer. Coordinated technical components of engineering, regulatory, institutional, and financial analyses of water treatment alternatives. Conducted audits of ten existing Valley WTPs. Responsible for a Valley-wide study of alternatives to provide treated water to every resident.

Westmorland Water Treatment Plant Modifications, City of Westmorland; Westmorland, California, (1994).
Project Engineer. Responsible for completion of the engineering report and application to FmHA to obtain funding for major renovation of the WTP. During the application phase the project was modified to incorporate regional water pipeline alternatives. The project consists of 16-inch and 12-inch pipelines with numerous canal crossings.

CAP Water Treatment Plant, City of Tucson; Tucson, Arizona, (1992).
Project Engineer. Responsible for construction phase services for a 150 mgd direct filtration water treatment plant, including contract administration, contract interpretation, shop drawing review for major equipment and materials, cost evaluation, change order control, performance evaluation, site observation, and on-site technical engineering. In 1989, as Project Engineer, was responsible for designing plant to become expandable to 225 mgd, including structural design of concrete, masonry, and steel; hydraulic design of pressure reducing and rate of flow control systems, facility layout, project coordination, alternative cost evaluation, and site design.

File reference

Water Reclamation Plant, City of Flagstaff; Flagstaff, Arizona, (1991).
Design Engineer. Responsible for design of a 4 mgd water reclamation plant, with responsibilities including layout and design of a 4 mgd wastewater pump station.

Pre-sedimentation Basins, City of Tempe; Tempe, Arizona, (1990).
Design Engineer. Designed improvements to the pre-sedimentation basins at the existing 50 mgd plant including sludge removal equipment and launders.

Water Treatment Plant Expansion, City of Thief River Falls; Thief River Falls, Minnesota, (1990).

Design Engineer. Designed a major expansion and renovation for the existing water treatment plant to provide a treatment capacity of 3 mgd which meets the new SDWA regulations.

PHILLIP L. COOK, P.E.

PROJECT MANAGER

Wastewater

West Gate Sewer Replacement Project, Austin Texas, (2002 – present)

Project Manager. The project includes the replacement of 3500 feet of 8' to 12" sewer line to correct hydraulic bottlenecks, sags and undersized lines. Project components include public involvement, environmental assessment, permitting, geotechnical investigations, routing, stream bed rehabilitation/stabilization and investigations of trenchless technoligies.

Dos Rios WRC, Digester Modifications Project, San Antonio Water System; San Antonio, Texas, (1987 – Present)

Project Engineer. The project includes preliminary design, design, and construction phase services for the replacement of all digester gas piping, digester sludge piping modifications, addition of gas scrubbing, and sludge pre-treatment in four phased contracts for a 125 mgd wastewater treatment plant. Also included were pre-design, design, and construction phase services for sludge mixing, screening using Parkson sludge screens, and ferrous chloride feed systems. Responsibilities include equipment specification, contract coordination, management of subconsultants and technical coordination.

Wastewater Treatment Plant Expansion, City of Fountain Hills; Fountain Hills, Arizona, (1989).

Project Engineer. Designed replacement covered aeration basins, blower building and standby generator building. Responsibilities included piping and building layout, structural design and specification writing.

Southside Wastewater Treatment Plant, City of Dallas; Dallas, Texas, (1987).

Project Engineer. Designed pumping station, filters, sedimentation basins and administration building.

File reference

Solid Waste

Catalina Transfer Station, Pima County Solid Waste Division; Tucson, Arizona, (1990).

Project Engineer. Designed solid waste transfer station, with responsibilities including design and coordination of water supply well, water storage reservoir and site design.

Solid Waste Study, Pinal County; Florence, Arizona, (1989).

Project Engineer. Conducted a comprehensive study of solid waste sources and disposal alternatives. Responsibilities included regulatory research and county-wide geological and geographic mapping.