Appendix 3.A.

Location Map



Appendix 3.B.ii Map of the Proposed Area by: Projectable Digital Data with Metadata



Appendix 3.C.

Written Description of the proposed service area

The proposed Greenwood Water Corporation CCN expansion is broken down into four (4) distinct areas to service four (4) properties that are scheduled are residential development. The properties have either been granted final plat approval by Midland County or are currently in the process of final plat approval.

The first area is located east of the southeast corner of County Road 110 and County Road 1120 in Midland County. This is an unincorporated area of Midland County and lies outside of the ETJ for the City of Midland. This area is referred to as the 'Greenwood Area' of Midland County. This project is 155.29 acres and has final plat approval for 107 - 1 acre and 2 acre lots. This project is referred to as 'Chaney Ranch'.

The second area is located at the northeast corner of County Road 120 and County Road 1060 in Midland County. This is an unincorporated area of Midland County and lies outside of the ETJ for the City of Midland. This area is referred to as the 'Greenwood Area' of Midland County. This project is 61.29 acres and has final plat approval for 50 - 1 acre lots. This project is referred to as 'Meadow Ranch'.

The third area is located at the southeast corner of County Road 110 and County Road 1110 in Midland County. This is an unincorporated area of Midland County and lies outside of the ETJ for the City of Midland. This area is referred to as the 'Greenwood Area' of Midland County. This project is 261.045 acres. This project is referred to as 'Kings Ranch'. This project is currently is the design process and will include 781 lots. The lots will vary in size from 6,000 to 8,000 SF lots. Final plat approval is anticipated within the first quarter of 2015.

The fourth area is located at the east of the southeast corner of Farm to Market Road 307 and Farm to Market Road 1379 in Midland County. This is an unincorporated area of Midland County and lies outside of the ETJ for the City of Midland. This area is referred to as the 'Greenwood Area' of Midland County. This project is 255.32 acres. This project is referred to as 'Evans Ranch'. This project is currently is the design process and will include 781 lots. The lots will vary in size from 6,000 to 8,000 SF lots. Final plat approval is anticipated within the first quarter of 2015. Appendix 3.D.i.

Maps for all Proposed Facilities illustrating:

Facilities for Production, Transmissions, and Distribution of Service



Appendix 3.D.ii.

Maps for all Proposed Facilities illustrating:

Any Facilities, Customers or Area currently being served outside the Applicants Certificated Area

Not Applicable

Appendix 4.A.i.

List of Public Drinking Water Supply Systems within a 2 mile radius of the proposed system

There are no public drinking water systems within 2 miles of any of the Greenwood Water Corporation expansion areas. The closest drinking water supply system is 2.75 miles away from the Chaney Ranch expansion area.



Appendix 4.A.ii.

Copy of Written Request seeking to obtain Service

(Not Applicable – No Service Providers)

Appendix 4.A.iii.

Copy of Written Responses from each Service Provider

(Not Applicable – No Service Providers)

Appendix 4.B.ii.

Detailed Analysis which justifies your reasons for not accepting service

(Not Applicable – No Service Providers)

Appendix 5.A.iv.

Most Recent TCEQ water inspection letter.

Bryan W. Shaw, Ph.D., P.E., Chairman Toby Baker, Commissioner Zak Covar, Commissioner Richard A. Hyde, P.E., Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 2, 2014

Mr. Paul Wilhite, President Greenwood Water Corporation 2121 South County Road 1083 Midland, TX 79706-5331

Re: Comprehensive Compliance Investigation of Public Water Supply at: Greenwood Water System, Midland County, Texas RN101439040, TCEQ Public Water Supply: 1650078

Dear Mr. Wilhite:

On February 24, 2014, Mr. Lindsey Buckner of the Texas Commission on Environmental Quality (TCEQ) Midland Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for public water supply. No violations were documented during the investigation; however, an additional issue is addressed by the enclosed Summary of Investigation Findings.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Mr. Buckner in the Midland Region Office at (432) 570-1359.

Sincerely,

Wm. Michael Edmiston, P.E. Section Manager Midland Region

WME/ldb

cc: Summary of Investigation Findings

TCEQ Region 7 • 9900 W. IH-20, Ste. 100 • Midland, Texas 79706 • 432-570-1359 • Fax 432-561-5512

SUMMARY OF INVESTIGATION FINDINGS

.

Entity:	Public Water Supply:	Inspection Date:
Greenwood Water System	1650078	February 24, 2014

ADDITIONAL ISSUES

1. Submittal of completion paperwork for new wells A and B and associated reverse osmosis treatment systems and request for final samples for new wells A and B.

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N



PWS ID No. 1650078 RN101439040 **Ector County**

System Diagram

Not to Scale Date: 4-1-2014 Surveyed by: L. Buckner

Texas mmission on Environmenta lality

PWS INVESTIGATION - EQUIPMENT MONITORING AND SAMPLING revised 06/2013

Checklist

Unit Name : 1650078 Investigation # :1158809 Facility Name : GREENWOOD WATER SYSTEM County : MIDLAND TCEQ Investigator : LINDSEY BUCKNER

Due item Comments Answer Description Date No. EQUIPMENT MONITORING SECTION Was an Anemometer used during this investigation? NO NO Was the Area RAE Multi-Gas Monitor used during this 2 investigation? Was the Civil Defense V-700 Radiation Survey Instrument INO 3 used during this investigation? Was the DataRAM(TM) Real-Time Aerosol Monitor used NO 4 during this investigation? Was the Dissolved Oxygen Meter used during this NO 5 investigation? NQ Was the Drager Gas Detector Pump/Tube System used 6 during this investigation? Was the El Paso Method for Measurement of Air-StrippableNO 7 VOCs in Water used during this investigation? Was the Garmin GPSMap 60CS GPS Receiver used NO 8 during this investigation? Was the Garmin RINO 130 GPS Receiver used during this NO 9 investigation? Was the GAS FindIR used during this investigation? NO 10 NO Was the Hach Model 2100P Portable Turbidimeter used 11 during this investigation? NO Was the Hach Pocket Colorimeter used during this 12 investigation? Was the Hach Pocket Turbidimeter used during this NO 13 investigation? Was the Haz-Dust 5000 Environmental Particulate Air NÖ 14 Monitor (EPAM) used during this investigation? Was the Hydrolab DataSonde® 4 and Hydrolab NO 15 MiniSonde® Water Quality Multiprobes used during this investigation? Was the IDEXX Colilert® and IDEXX Enterolert® Methods NO 16 -used during-this-investigation? Was the Jerome 631-X Hydrogen Sulfide (H2S) Analyzer NO 17 used during this investigation? Was the LANDTEC GEM 2000(TM) Landfill Gas analyzer NO 18 used during this investigation? Was the Ludium Model 14C Geiger Mueller (GM) counter NÖ 19 used during this investigation? Was the Ludium Model 19 Micro R Meter used during this NO 20 investigation? Was the Marsh-McBirney Flo-Mate 2000 Electromagnetic NO 21 Flow Meter used during this investigation? Was the MiniRAE 2000 Photoionization Detector used NO 22 during this investigation? Was the MIRAN 205B SapphiRe Portable Infrared Ambient NO 23 Analyzer used during this investigation? Was the MSA Passport® PID II Organic Vapor Monitor NO 24 used during this investigation? Was the Multi-parameter Water Quality Monitoring Sonde NO 25 and Display used during this investigation? Was the MultiRAE Plus Multi-Gas Monitor used during the NO 26 investigation?

			······································	
27	Was the Niton® XLT 700 Series X-Ray Fluorescence (XRF) Environmental Analyzer used during the stigation?	NO)	
28	Was the ORS Interface Probe(TM) used during this investigation?	NO	· · · · · · · · · · · · · · · · · · ·	
29	Was the pH Meter used during this investigation?	NO		
30	Was the Portable Organic Vapor Monitor (OVM) Photoionization Detector used during this investigation?	NO		
31	Was the Pressure Gauge used during this investigation?	NO		
32	Was the Pressure Recorder used during this investigation?	NO		
33	Was the QRAE Multi-gas Monitor used during this investigation?	NO		
34	Was the Sample Collection of VOCs in Ambient Air Using Passivated, Stainless Steet Canisters used during this investigation?	NO		
35	Was the Sampling of Microscopic Characterization used during this investigation?	NO		
36	Was the Self Contained Breathing Apparatus (SCBA) used during this investigation?	NO		
37	Was the Smith-Root Boat Mounted and Backpack Electrofishers used during this investigation?	NO		
38	Was the Sontek Flowtracker used during this investigation?	NO		
39	Was the TESTO 350 Portable Flue Gas Analyzer used during this investigation?	NO		
40	Was the Toxic Vapor Analyzer (TVA) 1000B Flame Ionization Detector (FID) used during this investigation?	NO	\ \	
41	Was the TravellR Portable FT-IR Infrared Analysis System used during this investigation?	NO		
42	Was the VRAE Multi Gas Monitor used during this investigation?	NO		
43	Was the Water Level Indicator used during this investigation?	NO		
44	Was the Weatherpak 2000 used during this investigation?	NO		
45	Was any other equipment used during this investigation that is not listed above? If YES, list the equipment in the Comment section.	NO		
	SAMPLING SECTION			
1	Was there sampling conducted for Effluent?	NO		
2	Was there sampling conducted for Groundwater?	NO		
3	Was there sampling conducted for Leachate/Contaminated Water?	NO		
4	Was there sampling conducted for PWS Chemical?	NO		
5	Was there sampling conducted for Sediment/Soil?	NO		
6	Was there sampling conducted for Spills/Unauthorized Discharge?	NO		
7	Was there sampling conducted for Surface Water?	NO		
8	Was there any other type of sampting conducted during this investigation? If YES, include it in the Comment section.	NO		

02/05/2014

3:10:29PM

<u>Texas Commission on Environmental Quality</u> Water System Data Sheet

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WSDSR

PWS ID	PWS Name	Central Registry RN
1650078	GREENWOOD WATER SYSTEM	RN101439040

Organization/Customer *	Central Registry CN
GREENWOOD WATER CORPORATION	CN600664528

* Regulatory mail will be addressed to this organization / person

Responsible Official **		Title				
PAUL WILHITE	PAUL WILHITE		PRESIDENT -			
License Type	License Numb	er				
Mailing Address:						
Street Address			C/O or Ac	dress Line 2		
City		State		Zip		
Business Phone	Other Phone	Other Ph	опе Туре	Email		

** Regulatory mail will be addressed to this person

No PWS Primary Contact assigned to this PWS

Emergency Contact Name ****	Emergency	Phone	Emergency Email
PAUL WILHITE			
License Type		License Numbe	er

**** This contact information will be used only in the event of an emergency

	Owner Type Options: AFFECTED COUNTIES, COUNTY, DISTRICT \ AUTHORITY,
owner rype	EXEMPT, FEDERAL GOVERNMENT, INVESTOR, MUNICIPALITY, NATIVE AMERICAN,
IND/ESTOD	PRIVATE, SUBMETER \ ALLOCATION, STATE GOVERNMENT, NOT RETAIL PUBLIC
INVESTOR	UTILITIES, WATER SUPPLY CORPORATION, MISC \ UNKNOWN

System Type ____System Type Options: SB 361, COMMUNITY, COMMUNITY (NON-GOVERNMENT OWNED), COMMUNITY TRANSIENT/NON-COMMUNITY, NON-PUBLIC, NON-TRANSIENT/NON-COMMUNITY

Customer Class	Customer Category	Population Served	# of Connect	# of Meters	# I/C w/other PWS
RESIDENTIAL	RESIDENTIAL AREA	-855	285	200	0
	1000 43 - 000	\$67	280	281	

Water System Data Sheet Ranart

Page 2 of 4

Total Product (MGD)	Average Daily Consump.	Total Storage (MG)	Elev. Storage (MG)	Booster Pump Cap. (MGD)	ster Aux.Prod.Cap. np Cap. Max.Pur.Cap.(MGD)	
0.497-	0.140	0.115 -	0.000 🖌	1.670 🖌	0.000	0.00540
0.802						0.015400
<i>μ</i>	Activity Status	D	eactivation Da	ate	Reason	
	ACTIVE					

Operator Grade	Number
WATER GRADE C GROUND	\$2

Last Survey Date	Surveyor	Survey Type	Code	Region	County	Def.Score
03/16/2011	LINDSEY BUCKNER	SURVEY		7	MIDLAND	5
09/24/2008	LINDSEY BUCKNER	SURVEY		7	MIDLAND	22
03/27/2007	LINDSEY BUCKNER	SURVEY		7	MIDLAND	0
2-24-14	(\	Į (۲ <u>ر</u>	• \	8

[(Entry Point)							
Entry Point	EP Name/Source Summation (Activity Status)	Plant Name (Activity Status)	WUD Plant Num	Chemical Mon Type	Chem Sample Point	Distribution Mon Type	Dist Sample Point	
001	FAUCET @ SP 3 & 4 / GROUND STORAGE(A)	PLANT - 2810 FM 1379(A)	10261		No		No	

Train: (Unnamed)

			(Treatments)	
Disinfection Zone	Treatment Sequence	Objective	Process	Treatment
	1	D	423 🗸	HYPOCHLORINATION(PRE)

			(Active Source	es)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Source Number	Source Name (Ac	tivity Status)	Operational Status	Source Type	Depth	Depth Tested GPM Rated G	
G1650078B	2 - S OF 1(A)		01	G	180	.50	0
Drill Date		Well Data				10	
8/17/1987		OGALLALA F	ORMATION				
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	GPS Cert. No.		Seller	
32.004299	101.874099	0		98081217)		
Source Number	Source Name (Ad	ctivity Status)	Operational Status	Source Type	Depth	Depth Tested GPM Rated GPM	
G1650078C	3 - E OF 2(A)		01	G	100	.25	0
Drill Date		Well Data			······	8	
6/21/1983	h	OGALLALA F	ORMATION				
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	GPS Cert. No.	, Seller		
32.004531	101.873001	0		98081217			
Source Number	Source Name (Ad	ctivity Status)	Operational Status	Source Type	Depth Tested GPM Rated GP		Rated GPM
G1650078D	4 - E OF 3(A)		01	G	165 _80- 200		200
Drill Date		Well Data			17		
8/11/1983		OGALLALA F	ORMATION				
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	GPS Cert. No.		Seller	
32.00489	101.871803	0		98081217			
Source Number	Source Name (A	ctivity Status)	Operational Status	Source Type	Depth	Depth Tested GPM Rated GPM	
G1650078E	5 - NE OF 4(A)		0/	G	180	80	200
Drill Date		Well Data				25	
8/11/1983	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OGALLALA F	ORMATION				
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	GPS Cert. No.	Setler		
32.00542	101.871002	0		98081217			

http://agme.tceq.texas.gov/iwud/reports/index.cfm?fuseaction=RunWSDataSheetreport&Re... 2/5/2014

Source Number	Source Name (Activity Status)		Operational Status	Source Type	Depth	Tested GPM	Rated GPM
G1650078F	6 - SE OF 5(A)		01	G	190	400	350
Drill Date		Well Data				32	
0/0/0							
GPS Latitude (decimal)	GPS Longitude (decimal)	GPS Elevation	GPS Date	GPS Cert. No.		Seller	
32.004833	101.870194	0					

	(Inactive/Offline Sources)		
SourceNumber	Name	Status	Depth
G1650078A	1 - 2 MI SE OF PLANT	A	162

Code Explanations
Monitoring Type Codes: (GW) GROUNDWATER,(GWP) GROUNDWATER - PURCHASED,(GUP) GROUNDWATER UNDER THE INFLUENCE - PURCHASED,(SWP) SURFACE WATER - PURCHASED,(GU) GROUNDWATER UNDER THE INFLUENCE OF SURFACE WATER,(N) NO SOURCES,(SW) SURFACE WATER
Activity Status Codes: (A) ACTIVE , (C) CCN CANCELLED , (D) DELETED/DISSOLVED , (G) SB 361 , (I) INACTIVE , (M) MERGED/ANNEXED , (N) NON-PUBLIC , (P) PROPOSED , (U) UNKNOWN-NO ACTIVITY OR NON-RESPONSIVE , (W) UTILITY WATER SYS XFER
Operational Status Codes: (C) CAPPED, (D) DEMAND, (E) EMERGENCY, (F) FORMER PWS SOURCE, (I) INACTIVE PWS SYSTEM, (N) NON-DRINKING WATER, (O) OPERATING, (P) PLUGGED, (T) TEST, (Y) PWS NOT ACTIVE AND NOT EXPECTED TO BE SO
Source Types: (G) GROUND WATER , (S) SURFACE WATER , (U) GROUND WATER UNDER THE INFLUENCE

- End of Report -

At the time of your query this data was the most current information available from our database, which is in real time. Every effort was made to retrieve it according to your query. Thank-you for using WUD.

G1650078G	18	North of #1	Operations	στοες	bs GPM
0	A	0.4 miles west of FM137 \$\$10.1 mile south of E (2120	۹ ۱۱	182'70	180 GPM
		has soud t	ture i RO	Plant	
	ß	Easting A	O perioting	180'70	160 GPM
		has RO 1	Plant		

PWS/1650078/CO/04-02-201 Compliance Investigation Texas commission on Environmen. Quality Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

Customer: Greenwood Water Corporation Customer Number: CN600664528

Regulated Entity Name: GREENWOOD WATER SYSTEM Regulated Entity Number: RN101439040

Investigation # 115 Investigator: LIN	8809 DSEY BUCKNER	Incident Numh Site Classificat	oers ion GW 25	1-1K CONNECTION
Conducted: 02/2	4/2014 02/24/2014	No Industry Co	ode Assigned	
Program(s): PUH	BLIC WATER SYSTEM/SUPPLY			
Investigation Type: (Compliance Investigation	Location: South	n of Greenwood	l High School on FM 1379
Additional ID(s):	1650078			
Address: 2810 FM 13 7 MIDLAND, TX , 79706	'9,	Local Unit: REGION 07 Activity Type(s): P P	- MIDLAND WSCCIGWCM PURCHASE - CO	- CCI GW OMMUNITY MANDATORY
<u>Principal(s):</u> Role RESPONDENT	Name GREENWOOD WAT	ER CORPORATION		
Contact(s):				RECEIVED
Role	Title	Name	Phone	APR 1 5 2014
Notified	PRESIDENT	MR PAUL R WILHITE		
Participated in Investigation		MS CAROL WILHITE		CENT/INE LIGHT OF CAL
Participated in Investigation	PRESIDENT	MR PAUL R WILHITE	Cell Work Fax	(432) 352-7577 (432) 687-2070 (432) 687-3545
Regulated Entity Mail Contact	PRESIDENT	MR PAUL R WILHITE		
Other Staff Member	<u>r(s):</u>			
Role	Name			
Supervisor	WILLIAM EDMIST	ON		

2/24/2014 Inv. # - 1158809

Page 2 of 3

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
PWS EMERGENCY POWER INITIATIVE	1650078
PWS STANDARD FIELD	1650078
WQ IN-HOUSE LABORATORY COMPLIANCE INVESTIGATION	1650078
PWS INVESTIGATION - EQUIPMENT MONITORING AND SAMPLING revised 06/2013	1650078

Investigation Comments:

INTRODUCTION:

Mr. Paul Wilhite is President, manager and operator. Ms. Carol Wilhite is office manager and operator. The investigator, Mr. Lindsey Buckner, notified Mr. Wilhite on February 12, 2014 of the planned Comprehensive Compliance Investigation (CCI) of the system. Mr. Buckner then met with Mr. Wilhite and Ms. Wilhite on-site on February 24, 2014 and conducted an announced CCI of the public water system. Additional issues include submittal of completion paperwork for new wells A and B and associated reverse osmosis treatment systems and request for final samples for new wells A and B. Exit interview was conducted with Mr. Wilhite.

GENERAL FACILITY AND PROCESS INFORMATION:

This community system provides treated ground water to 289 metered connections with estimated population of 867. Mailing address, physical address, location, phone numbers, RN and CN for the system are:

2121 South County Road 1083 Midland, TX 79706

South of FM 307 on east side of S CR 1083

 432/687-2070
 Office

 432/686-0155
 Fax

 432/352-7577
 Paul Wilhite cell

 432/661-0089
 On call and emergency cell

 greenwoodcitywater@att.net

RN101439040 CN600664528.

POE 001: EP sampling is from faucet at service pumps.

Six wells pump to ground storage. Two wells, owner designation A and B, pump to dedicated RO systems. The RO system at each well, A and B, consist of five micron then one micron particulate filters and then seven RO membranes and finally to storage. Transfer pumps take suction from the permeate tanks and discharge to ground storage for blending with ground water. RO effluent from both RO systems is stored in one tank. The effluent is sold for industrial purposes. Each RO plant is rated at 100 GPM. Well A has a sand trap which precedes the RO system. Service pumps t through 4 take suction from ground storage and discharge through two 0.002700 pressure tanks with each pressure tank discharging to a separate subdivision. Service pump 5 takes suction from ground storage and discharges to the southern portion of the distribution. The distribution is looped so all the pressure tanks float on the system. Hypochlorination is ahead of ground storage.

System Facilities Totals: Water Production = 557 GPM = 0.802 MGD Pressure Tank Storage = 0.015400 MG Total Storage = 0.115000 MG Service Pumps = 1160 GPM = 1.670 MGD.

BACKGROUND: Prior CCI was conducted on March 16, 2011. Groundwater exceeds arsenic primary MCL and secondary MCL for

GREENWOOD WATER SYSTEM - M** AND

2/24/2014 Inv. # - 1158809

Page 3 of 3

Fluoride. The system is under a compliance agreement for enforcement case 34220, for exceeding the maximum contaminant level (MCL) for Arsenic.

ADDITIONAL INFORMATION:

The system has two class C Groundwater certified operators and one Customer Service Inspector certification. Average water use for February, 2013 through January, 2014 was 0.140 MGD and max day was 0.679, (major leak) MGD on April 16, 2013. Bacteriological analysis is conducted by City of Odessa Laboratory Services which has NELAC approval. Disinfectant residuals and water pressure are determined by field analysis. Reagents and standards are in date. Appropriate methodology, checks and calibration are utilized. Emergency power is required and the system has an agreement with TanMar Rentals for generator rental during emergencies. Pigtails are installed.

44 psi at and 0.33 mg/L Free chlorine disinfectant residual at 2121 S CR 1083.

The investigator used an Ashcroft analog pressure gauge to determine distribution water pressure and a HACH Pocket Colorimeter to determine disinfectant residual.

No Violations Associated to this Investigation

Signed

Date 4-2-14

Environmental Investigator

Signed Supervisoi

Date 4/2/14

Attachments: (in order of final report submittal)

Enforcement Action Request (EAR)

____Letter to Facility (specify type) : _____

Investigation Report

____Sample Analysis Results

____Manifests

____Notice of Registration

Maps, Plans, Sketches

Photographs

___Correspondence from the facility

____Other (specify) :

Eavipment Chest List ave

Appendix 5.A.v.

Brief Explanations of Actions for each system deficiency listed in TCEQ inspection report letter

The following letter was received from TCEQ on January 30, 2015. GWC is currently working on the test samples required by TCEQ and the documentation requested in the letter. GWC intends to fully comply with this letter.

Bryan W. Shaw, Ph.D., P.E., *Chairman* Toby Baker, *Commissioner* Zak Covar, *Commissioner* Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution January 30, 2015

Mr. Michael Hreha United Engineering Group 3205 W. Ray Road Chandler, AZ 85226

Re: Greenwood Water System - Public Water System ID No. 1650078 Response to Compressive Compliance Investigation and CCN Expansion Engineer Contact Telephone: (480) 705-5372 Plan Review Log No. P-12012014-023 Midland County, Texas

CN: 600664528; RN: 101439040

Dear Mr. Hreha:

On December 1, 2014, the Texas Commission on Environmental Quality (TCEQ) received your letter dated November 26, 2014 proposing a plan of action to addressing the additional issues listed in the compliance investigation report and discussing a plan to expand the service area to a new subdivision. Based on our review, we are **unable to approve** the proposed project at this time.

Please provide additional information showing how the requirements of the TCEQ's Chapter 290 - <u>Rules and Regulations for Public Water Systems</u> will be met:

- Pursuant to Title 30 Texas Administrative Code (TAC) §290.39(d)(1), "Plans, specifications, and related documents will not be considered unless they have been prepared under the direction of a licensed professional engineer. All engineering documents must have engineering seals, signatures, and dates affixed in accordance with the rules of the Texas Board of Professional Engineers". Please have your engineer submit an engineering report with plans and specifications to respond to the Comprehensive Compliance Investigation.
- 2. The Reverse Osmosis treatment used to remove arsenic at the public water system is not approved for use. The following is needed to approve the treatment:
 - a. Provide a clear identification of the proposed raw water source.

· 6.0

Mr. Michael Hrena Page 2 January 30, 2015

- b. If the well has been constructed, a copy of the State of Texas Well Report according to 16 TAC Chapter 76 (relating to Water Well Drillers and Water Well Pump Installers), a cementing certificate (as required by §290.41(c)(3)(A) of this title), and a copy of the complete physical and chemical analysis of the raw water from the well as required by §290.41(c)(3)(G) of this title; or
- c. Provide a description of the pretreatment process that includes:
 - i. target water quality of the proposed pretreatment process;
 - ii. constituent(s) to be removed or treated;
 - iii. method(s) or technologies used; and
 - iv. operating parameters, such as chemical dosages, filter loading rates, and empty bed contact times.
- d. Provide documentation that the components for the RO membranes conform to American National Standards Institute/NSF International (ANSI/NSF Standard 61 for Drinking Water System Components.
- e. Provide the details for post-treatment and re-mineralization to reduce the corrosion potential of the finished water. If carbon dioxide and/or hydrogen sulfide is present in the reverse osmosis permeate, include the details for a degasifier for post-treatment.
- f. If blending is occuring provide the blending ratio, source of the water to be blended, and the calculations showing the concentrations of regulated constituents in the finished water.

- g. Provide the initial baseline performance of the plant. The baseline net driving pressure, normalized permeate flow, salt rejection (or salt passage) must be documented.
- h. Provide the frequency of cleaning or membrane replacement. The frequency must be based on a set time interval or at a set point relative to baseline performance of the unit(s).
- Provide verification of plant capacity. The capacity of the reverse osmosis membrane facility shall be based on the as-built configuration of the system.
- j. Provide at least 4 samples of the raw water, RO treated water, and the water after any post treatment for arsenic. The 4 samples shall be taken one each week for a period of 4 weeks. Samples must be submitted to an accredited laboratory for chemical analyses.
- k. Provide a complete physical and chemical analysis of the treated water,
 both from the RO membrane system, and the water after any posttreatment. Samples must be submitted to an accredited laboratory for chemical analyses.
- 3. Please include the Comprehensive Compliance Investigation report with your next submittal.

The submittal consisted of a letter with a proposed timeline.

We will retain these documents for 60 calendar days. Revisions or additional information must be submitted to the TCEQ (Utilities Technical Review Team, MC-159) within that time or the entire package must be resubmitted for review.

Please refer to the Utilities Technical Review Team's Log No. P-11202014-101 in all correspondence for this project. This will help complete our review and prevent it from being considered a new project.

Mr. Michael Hreha Page 4 January 30, 2015

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittal to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on our website at the address shown below.

http://www.tceq.texas.gov/assets/public/permitting/watersupply/ud/forms/10233.pdf

For future reference, you can review part of the Utilities Technical Review Team's database to see if we have received your project. This is available on the TCEQ's homepage on the Internet at the following address:

http://www.tceq.texas.gov/utilities/planrev.html

You can download most of the well construction checklists and the latest revision of Chapter 290 "<u>Rules and Regulations for Public Water Systems</u>" from this site.

If you have any questions concerning this letter or need further assistance, please contact Mr. Brian D. Dickey at (512)239-0963 or by email at "brian.dickey@tceq.texas.gov" or by correspondence at the following address:

Utilities Technical Review Team, MC-159 Texas Commission on Environmental Quality P.O. Box 13087 Austin, Texas 78711-3087

Sincerely,

Vera Poe, P.E., Team Leader Utilities Technical Review Team Plan and Technical Review Section Water Supply Division Texas Commission on Environmental Quality

VP/BDD/av

cc: Greenwood Water System - Attn.: Paul Wilhite, President, 2121 County Road 1083, Midland, Texas 79706 Appendix 5.G

Effect of Granting a Certificate Amendment

This amendment of the Greenwood Water Corporation (GWC) will have substantial positive impacts to the area, population and long term health of the Greenwood Area.

The Midland County area is in the center of the oil boom in the Permian Basin of West Texas. This area is now documented as the fifth largest oil reserve in the world. Recent development studies estimate the region hold enough oil to continue production at the current rate for at least another 100 years.

GWC is situated in the unincorporated county area called 'Greenwood'. This area includes the Greenwood School District, Greenwood is known as the most desirable school district within metropolitan Midland. Midland County just passed a \$60,000,000 bond issuance to improve the schools to the highest of standards, included in this is the construction of a new middle school campus in the Greenwood School District. The value added by the school district and improvements are driving the demand for houses in the area.

Currently there are a minimal amount of lots for sale in the Greenwood area and growth is being depressed by the lack of utilities and service available in the area. The nearest provider of water is the City of Midland and they do not want to extend their service area without an annexation of land into the City. Due to the scattered parcels and properties owners in the area this is not a viable alternative to provide water service to the residents.

Previously development in this region has been limited to large lot subdivisions with individual wells and septic systems due to the limited water and wastewater facilities in the area. With the extension of the GWC this will allow for smaller lot and more affordable product in the region.

GWC has historically been a small system constructed and servicing the Windmill Estates subdivision. This subdivision was constructed by Paul Wilhite and his construction company and the water company has continuously served this subdivision.

The new developments of Chaney Ranch, Meadow Ranch, Kings Ranch and Evans Ranch are being planned in order to meet the housing need and provide a high quality of living for the new residents. Following the approval of this CCN extension and the TCEQ approval of the plans and specifications the developer of each project will be required to construct and finance the construction of the new facilities for production, transmission and distribution for water service. These plans will be reviewed by the GWC staff and technical sub consultants to ensure that the system meets required standards and provides for a regional solution for water distribution. This method of growth requires by buy in from the developer and the utility provider to ensure that a well-designed, managed and operated system is provided for the region.

The GWC extension will also build infrastructure to service the surrounding area. The main water lines will be installed along the major streets in the area thus allowing easy connection for future development projects. GWC intends to expand service to provide the regional solution once the other developments move forward. As these potential development arise additional CCN extension applications will be submitted for review and approval. Appendix 5.H.iv.

Current Sewer Capacity Agreement

Evans Ranch Development, LLC 7702 E. Doubletree Ranch Rd. Suite 220 Scottsdale, AZ 85258

February 12, 2015

Mr. Leo Commandeur Greenwood Utilities Corporation 42213 N. Whistling Street Ct. Anthem, AZ 85036

Subject: Request for Service for the following planned development called Evans Ranch on 255 acres of land.

Dear Mr. Commandeur:

This "Request for Service Letter" is for our proposed development on the following parcels of land located in Midland County, Texas. The location of this land is shown on the attached drawing. The proposed project will create 781 single-family lots. To our knowledge, this land is not located within the jurisdiction of any city or within the service area of any wastewater service provider.

Although this planned development is not contiguous with Greenwood Utilities Corporation existing certificated service area CC&N, we believe that a regional wastewater provider would be better suited for controlling water quality and insuring long-term wastewater supply management.

This development have already been submitted to Midland County for planning and approval and should be approved by the county in the near future, provided that we can obtain a commitment for wastewater service.

Our goal would be to have Greenwood Utilities Corporation provide wastewater service to the future residents of our planned community and look forward to receiving your response.

Your timely response to this request would be appreciated.

Sincerely

Mike Zipprich Managing Member

King 261 LLC, a Delaware LLC 7702 E. Doubletree Ranch Rd. Suite 220 Scottsdale, AZ 85258

February 12, 2015

Mr. Leo Commandeur Greenwood Utilities Corporation 42213 N. Whistling Street Ct. Anthem, AZ 85036

Subject: Request for Wastewater Service for the following planned development called King's Ranch on 261 acres of land.

Dear Mr. Commandeur:

ann.

This "Request for Service Letter" is for our proposed development on the following parcels of land located in Midland County, Texas. The location of this land is shown on the attached drawing. The proposed project will create 781 single-family lots. To our knowledge, this land is not located within the jurisdiction of any city or within the service area of any wastewater service provider.

Although this planned development is not contiguous with Greenwood Utilities Corporation existing certificated service area CC&N, we believe that a regional wastewater provider would be better suited for controlling water quality and insuring long-term wastewater supply management.

This development have already been submitted to Midland County for planning and approval and should be approved by the county in the near future, provided that we can obtain a commitment for wastewater service.

Our goal would be to have Greenwood Utilities Corporation provide wastewater service to the future residents of our planned community and look forward to receiving your response.

Your timely response to this request would be appreciated.

Sincerely

Mike Zipprich Managing Member

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Appendix 5.I

Ability to Provide Adequate Service

The current Greenwood Water Corporation (GWC) system serves the existing customers with adequate service and no TCEQ violations. This proposed extension will increase the connection base from 289 to over 2,000 connections. The extension of the distribution, production and treatment will be handled by a line extension agreement (LXA) with each developer. This requires the developer to pay the upfront cost to improve the system while providing a regional solution for the area. As part of the LXA the developer will receive credits for the money spent on the infrastructure. This will allow for growth within the timeframe required by the developer. The system will be sized to meet the requirement of the densities and land use while providing excess capacity within the TCEQ requirements.

Appendix 6.B.ii

Water Utility Tariff for Greenwood Water Corporation



<u>Greenwood Water Corporation</u> (Utility Name) 2121 South County Road 1083 (Business Address)

Midland, Texas 79706-5344 (City, State, Zip Code) 432/687-2070 (Area Code/Telephone)

This tariff is effective for utility operations under the following Certificate of Convenience and Necessity:

<u>11792</u>

This tariff is effective in the following county:

Midland

This tariff is effective in the following cities or unincorporated towns (if any):

<u>None</u>

This tariff is effective in the following subdivisions and water quality permit numbers:

Greenwood Water System: PWS# 1650078

TABLE OF CONTENTS

The above utility lists the following sections of its tariff (if additional pages are needed for a section, all pages should be numbered consecutively):

SECTION	1.0 RATE SCHEDULE	2
SECTION	2.0 SERVICE RULES AND POLICIES	ŧ
SECTION	3.0 EXTENSION POLICY	L
SECTION	4 0 - DROUGHT CONTINGENCY PLAN	5
SECTION	4.0 – DROUGHT CONTINGENCY PLAN16)

APPENDIX A -- SAMPLE SERVICE AGREEMENT APPENDIX B -- APPLICATION FOR SERVICE

Greenwood Wate	er Corr		Wat Jtility Tariff Page No. 2
Section 1.01-Rat	SECTIO	DN 1.0 - RATE SCI	HEDULE
<u>Meter Size</u>	Monthly Minim (Includes _0	<u>um Charge</u> gallons)	Gallonage Charge
5/8" or 3/4" 1" 1 1/2" 2" 3" 4"	\$72.58 \$181.45 \$362.90 \$580.64 \$1,088.70 \$1,814.50	\$2.97 pe \$3.24 per 1,00 \$3.51 per 1,00 \$3.78 per 1,00 \$4.32 per 1,00	er 1,000 gallons from 0 to 20,000 gallons 00 gallons from 20,001 to 25,000 gallons 00 gallons from 25,001 to 30,000 gallons 00 gallons from 30,001 to 35,000 gallons 0 gallons from 35,000 gallons and above
FORM OF PAYMEN Cash <u>X</u> , Chec THE UTILITY PAYMENTS M GIVEN FOR C	NT: The utility with the still of the still of the second	will accept the foll Order <u>X</u> , Cred CT CHANGE FOR PA 'HAN \$1.00 IN SMALI	owing forms of payment: it Card, Other YMENTS AND MAY REFUSE TO ACCEPT L COINS. A WRITTEN RECEIPT WILL BE
REGULATORY ASS TCEQ RULES MONTHLY BIL	SESSMENT FEE REQUIRE THE UTILIT	TY TO COLLECT A FEE	OF ONE PERCENT OF THE RETAIL
Section 1.02 - Mis	scellaneous Fees		
TAP FEE TAP FEE COVE STANDARD RE COSTS IS PER	RS THE UTILITY'S C SIDENTIAL 5/8" or MITTED IF LISTED C	COSTS FOR MATERIAL 3/4" METER. AN ADD DN THIS TARIFF.	S AND LABOR TO INSTALL A DITIONAL FEE TO COVER UNIQUE
TAP FEE (Unique C FOR EXAMPLE AREAS.	Costs) , A ROAD BORE FOR	CUSTOMERS OUTSI	DE OF SUBDIVISIONS OR RESIDENTIAL
TAP FEE (Large r TAP FEE IS TH INSTALLED.	neter) E UTILITY'S ACTUAL	COST FOR MATERIA	LS AND LABOR FOR METER SIZE
METER RELOCATIO THIS FEE MAY RELOCATED.	DN FEE BE CHARGED IF A CI	<u>Actual Reloca</u> USTOMER REQUESTS	ation Cost, Not to Exceed Tap Fee THAT AN EXISTING METER BE
RATES LISTED ARE	EFFECTIVE ONL	Y	

IF THIS PAGE HAS TCEQ APPROVAL STAMP

TEXAS COMM. ON ENVIRONMENTL QUALITY 37567-R, CCN 11792, JUNE 1, 2013 APPROVED TARIFF BY Greenwood Water Cor

SECTION 1.0 - RATE SCHEDULE (Continued)

METER TEST FEE
RECONNECTION FEE THE RECONNECT FEE WILL BE CHARGED BEFORE SERVICE CAN BE RESTORED TO A CUSTOMER WHO HAS BEEN DISCONNECTED FOR THE FOLLOWING REASONS:
a) Non payment of bill (Maximum \$25.00)b) Customer's request
TRANSFER FEE
LATE CHARGE
RETURNED CHECK CHARGE
CUSTOMER DEPOSIT (Maximum \$50) <u>\$50.00</u>
COMMERCIAL & NON-RESIDENTIAL DEPOSIT1/6TH ESTIMATED ANNUAL BILL
GOVERNMENTAL TESTING, INSPECTION AND COSTS SURCHARGE: WHEN AUTHORIZED IN WRITING BY TCEQ AND AFTER NOTICE TO CUSTOMERS, THE UTILITY MAY INCRASE RATES TO RECOVER INCREASED COSTS FOR INSPECTION FEES AND WATER TESTING. [30 TAC 291.21(K)(2)]
LINE EXTENSTION AND CONSTRUCTION CHARGES: REFER TO SECTION 3.0-EXTENSION POLICY FOR TERMS, CONDITIONS, AND CHARGES WHEN NEW CONSTRUCTION IS NECESSARY TO PROVIDE SERVICE.

RATES LISTED ARE EFFECTIVE ONLY IF THIS PAGE HAS TCEQ APPROVAL STAMP

> TEXAS COMM. ON ENVIRONMENTL QUALITY 37567-R, CCN 11792, JUNE 1, 2013 APPROVED TARIFF BY

SECTION 2.0 -- SERVICE RULES AND POLICIES

The utility will have the most current Texas Commission on Environmental Quality Rules, Chapter 291, Water Utility Regulation, available at its office for reference purposes. The Rules and this tariff shall be available for public inspection and reproduction at a reasonable cost. The latest Rules or Commission approved changes to the Rules supersede any rules or requirements in this tariff.

Section 2.01 - Application for Water Service

All applications for service will be made on the utility's standard application or contract form (attached in the Appendix to this tariff), will be signed by the applicant, any required fees (deposits, reconnect, tap, extension fees, etc. as applicable) will be paid and easements, if required, will be granted before service is provided by the utility. A separate application or contract will be made for each service location.

Section 2.02 - Refusal of Service

The utility may decline to serve an applicant until the applicant has complied with the regulations of the regulatory agencies (state and municipal regulations) and for the reasons outlined in the TCEQ Rules. In the event that the utility refuses to serve an applicant, the utility will inform the applicant in writing of the basis of its refusal. The utility is also required to inform the applicant that a complaint may be filed with the Commission.

Section 2.03 - Fees and Charges & Easements Required Before Service Can Be Connected

(A) <u>Customer Deposits</u>

If a residential applicant cannot establish credit to the satisfaction of the utility, the applicant may be required to pay a deposit as provided for in Section 1.02 - Miscellaneous Fees of this tariff. The utility will keep records of the deposit and credit interest in accordance with TCEQ Rules.

Residential applicants 65 years of age or older may not be required to pay deposits unless the applicant has an outstanding account balance with the utility or another water or sewer utility which accrued within the last two years.

Nonresidential applicants who cannot establish credit to the satisfaction of the utility may be required to make a deposit that does not exceed an amount equivalent to one-sixth of the estimated annual billings.

Refund of deposit - If service is not connected, or after disconnection of service, the utility will promptly refund the customer's deposit plus accrued interest or the balance, if any, in excess of the unpaid bills for service furnished. The utility may refund the deposit at any time prior to termination of utility service but must refund the deposit plus interest for any customer who has paid 18 consecutive billings without being delinquent.

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SECTION 2.0 -- SERVICE RULES AND POLICIES (Continued)

(B). Tap or Reconnect Fees

A new customer requesting service at a location where service has not previously been provided must pay a tap fee as provided in Section 1. A customer requesting service where service has previously been provided must pay a reconnect fee as provided in Section 1. Any applicant or existing customer required to pay for any costs not specifically set forth in the rate schedule pages of this tariff shall be given a written explanation of such costs prior to request for payment and/or commencement of construction. If the applicant or existing customer does not believe that these costs are reasonable or necessary, the applicant or existing customer shall be informed of their right to appeal such costs to the TCEQ or such other regulatory authority having jurisdiction over the utility's rates in that portion of the utility's service area in which the applicant's or existing customer's property(ies) is located.

Fees in addition to the regular tap fee may be charged if listed specifically in Section 1 to cover unique costs not normally incurred as permitted by 30 T. A. C. 291.86(a)(1)(C). For example, a road bore for customers outside a subdivision or residential area could be considered a unique cost.

(C) Easement Requirement

Where recorded public utility easements on the service applicant's property do not exist or public road right-of-way easements are not available to access the applicant's property, the Utility may require the applicant to provide it with a permanent recorded public utility easement on and across the applicant's real property sufficient to provide service to that applicant. Such easement(s) shall not be used for the construction of production, storage, transmission or pressure facilities unless they are needed for adequate service to that applicant.

Section 2.04 - Utility Response to Applications for Service

After the applicant has met all the requirements, conditions and regulations for service, the utility will install tap, meter and utility cut-off valve and/or take all necessary actions to initiate service. The utility will serve each qualified applicant for service within 5 working days unless line extensions or new facilities are required. If construction is required to fill the order and if it cannot be completed within 30 days, the utility will provide the applicant with a written explanation of the construction required and an expected date of service.

Except for good cause where service has previously been provided, service will be reconnected within one working day after the applicant has met the requirements for reconnection.

Section 2.05 - Customer Responsibility

The customer will be responsible for furnishing and laying the necessary customer service pipe from the meter location to the place of consumption. Customers will not be allowed to use the utility's cutoff valve on the utility's side of the meter. Existing customers may install cutoff valves on their side of the meter and are encouraged to do so. All new customers may be required to install and maintain a cutoff valve on their side of the meter.

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SECTION 2.0 -- SERVICE RULES AND POLICIES (Continued)

No direct connection between a public water supply system and any potential source of contamination or between a public water supply system and a private water source (ex. private well) will be allowed. A customer shall not connect, or allow any other person or party to connect, onto any water lines on his premises.

Section 2.06 - Customer Service Inspections

Applicants for new service connections or facilities which have undergone extensive plumbing modifications are required to furnish the utility a completed customer service inspection certificate. The inspection certificate shall certify that the establishment is in compliance with the Texas Commission on Environmental Quality Rules and Regulations for Public Water Systems, Section 290.46(i). The Utility is not required to perform these inspections for the applicant/customer, but will assist the applicant/customer in locating and obtaining the services of a certified inspector.

Section 2.07 - Back Flow Prevention Devices

No water connection shall be allowed to any residence or establishment where an actual or potential contamination hazard exists unless the public water facilities are protected from contamination by weither an approved air gap, backflow prevention assembly, or other approved device. The type of device or backflow prevention assembly required shall be determined by the specific potential hazard identified in §290.47(i) Appendix I, Assessment of Hazards and Selection of Assemblies of the TCEQ Rules and Regulations for Public Water Systems.

The use of a backflow prevention assembly at the service connection shall be considered as additional backflow protection and shall not negate the use of backflow protection on internal hazards as outlined and enforced by local plumbing codes. When a customer service inspectioncertificate indicates that an adequate internal cross-connection control program is in effect, backflow protection at the water service entrance or meter is not required.

At any residence or establishment where it has been determined by a customer service inspection, that there is no actual or potential contamination hazard, as referenced in Section 290,47(i) Appendix I, Assessment of Hazards and Selection of Assemblies of the TCEQ Rules and Regulations for Public Water Systems, then a backflow prevention assembly or device is not required. Outside hose bibs do require, at a minimum, the installation and maintenance of a working atmospheric vacuum breaker.

All backflow prevention assemblies or devices shall be tested upon installation by a TCEQ certified backflow prevention assembly tester and certified to be operating within specifications. Backflow prevention assemblies which are installed to provide protection against health hazards must also be tested and certified to be operating within specifications at least annually by a certified backflow prevention assembly tester.

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Greenwood Water Corporation

SECTION 2.0 -- SERVICE RULES AND POLICIES (Continued)

If the utility determines that a backflow prevention assembly or device is required, the utility will provide the customer or applicant with a list of TCEQ certified backflow prevention assembly testers. The customer will be responsible for the cost of installation and testing, if any, of backflow prevention assembly or device. The customer should contact several qualified installers to compare prices before installation. The customer must pay for any required maintenance and annual testing and must furnish a copy of the test results demonstrating that the assembly is functioning properly to the utility within 30 days after the anniversary date of the installation unless a different date is agreed upon.

Section 2.08 - Access to Customer's Premises

The utility will have the right of access to the customer's premises at all reasonable times for the purpose of installing, testing, inspecting or repairing water mains or other equipment used in connection with its provision of water service, or for the purpose of removing its property and disconnecting lines, and for all other purposes necessary to the operation of the utility system including inspecting the customer's plumbing for code, plumbing or tariff violations. The customer shall allow the utility and its personnel access to the customer's property to conduct any water quality tests or inspections required by law. Unless necessary to respond to equipment failure/leak or other customer's property shall be during informal adequate utility service to others, such entry upon the customer's property shall be during informal business hours and the utility personnel will attempt to notify the customer that they will be working on the customer's property. The customer may require any utility representative, employee, contractor, or agent seeking to make such entry identify themselves, their affiliation with the utility, and the purpose of their entry.

All customers or service applicants shall provide access to meters and utility cutoff valves at all times reasonably necessary to conduct ordinary utility business and after normal business hours as needed to protect and preserve the integrity of the public drinking water supply.

Section 2.09 - Meter Requirements, Readings, and Testing

One meter is required for each residential, commercial, or industrial connection. All water sold by the utility will be billed based on meter measurements. The utility will provide, install, own and maintain meters to measure amounts of water consumed by its customers.

Meters will be read at monthly intervals and as nearly as possible on the corresponding day of each monthly meter reading period unless otherwise authorized by the Commission.

Meter tests. The utility will, upon the request of a customer, and, if the customer so desires, in his or her presence or in that of his or her authorized representative, make without charge a test of the accuracy of the customer's meter. If the customer asks to observe the test, the test will be made during the utility's normal working hours at a time convenient to the customer. Whenever possible,

TEXAS COMM. ON ENVIRONMENTAL QUALITY

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